



**AGRITECH**

Agribusiness, Environmental  
Engineering and Biotechnologies

  
**Science and Technology City Hall**  
KRASNOYARSK, RUSSIA

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**III International Scientific  
Conference**

**AGRITECH-III - 2020:  
Agribusiness,  
Environmental  
Engineering and  
Biotechnologies**

June 4-5, 2020 | Volgograd, Russia  
June 18-20, 2020 | Krasnoyarsk, Russia

[www.conf.domnit.ru](http://www.conf.domnit.ru)

***Programme Book***

<http://conf.domnit.ru/ru/conferences/agritech-3/>



Science & Technology City Hall

Krasnoyarsk



**IOP** Conference Series



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## Conference Programme

**III International Conference on Agribusiness,  
Environmental Engineering and Biotechnologies -  
AGRITECH III - 2020**

**(Krasnoyarsk, June 18-20, 2020)**



# III International Scientific Conference

## AGRITECH-III - 2020: Agribusiness, Environmental Engineering and Biotechnologies

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## About the Conference

International and Russian Union of Scientific and Engineering Associations, Krasnoyarsk Regional Union of Scientific and Engineering Associations, Krasnoyarsk Science and Technology City Hall and Krasnoyarsk State Agrarian University are organizing 3rd International Conference on Agribusiness, Environmental Engineering and Biotechnologies - AGRITECH III - 2020. The Conference will take place in Krasnoyarsk in June 18-20, 2020.

We invite scientists, post-graduates and research teams as well as representatives of the enterprises working in Agribusiness, Environmental Engineering and Biotechnologies to participate in the Conference.

**The purpose** of the conference is the exchange of experience of leading experts in the field of high-tech chemical, biological and information technologies in agriculture and agribusiness, in the fields of energy, chemical and oil and gas engineering, in the field of environmental management and environmental engineering, mining and soil processing technologies, as well as in modern areas of biodiversity research and methods for its conservation.

**The work of the conference is planned in the following directions:**

- Agribusiness, Economics and Organization of Agritech Engineering
- Information Technologies, Automation Engineering and Digitization of Agriculture
- Biological Technologies in Agriculture: from Molecules to Ecosystems
- Environmental Engineering and Management, Mining and Soil Treatment Technology
- Chemical, Ecological, Oil and Gas Engineering
- Biodiversity and Ecosystem Stability

### Proceedings of the Conference

The Proceedings of the Workshop in the form of full papers in the English language will be published in IOP Conference Series: Earth and Environmental Science (EES), indexed by web of Science and Scopus. The papers should meet the requirements of the Journal.

<http://conf.domnit.ru/ru/conferences/agritech-3/>

The papers should meet the requirements of the Journal (the requirements and the template can be found on the Conference web-site <http://conf.domnit.ru/ru/conferences/agritech-3/>).

The official languages of the Conference are Russian and English. The Organizers will provide professional interpretation if required.

### Conference Venue

The Conference will take place in Krasnoyarsk Science and Technology City Hall: 61 Uritskogo Street, Krasnoyarsk, Russia.

### Registration Fee

Participation in the Conference is free. The registration fee for the publication is 200 EURO. The fee is paid after the notice about acceptance of the paper but not later than June 18, 2020.

### Contact Details

Please forward all the questions concerning the participation and the programme to the executive secretary:

Anna Voroshilova Tel. +7 391 227 84 84

E-mail: [krasnio@bk.ru](mailto:krasnio@bk.ru)

Krasnoyarsk Science and Technology City Hall of the Russian Union of Scientific and Engineering Associations, 61, Uritskogo street, Krasnoyarsk, 660049, Russia

The detailed information is also available at: <http://conf.domnit.ru/ru/conferences/agritech-3/>.

# Организаторы конференции

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|  <b>ДМИТ ДОМ НАУКИ И ТЕХНИКИ</b><br><u>Красноярский краевой Дом науки и техники Российского Союза научных и инженерных общественных объединений</u> |  <b>Красноярский государственный аграрный университет</b><br><u>Красноярский государственный аграрный университет</u>   |  <b>ВОЛГОГРАДСКИЙ ГОСУДАРСТВЕННЫЙ ТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ</b><br><u>Волгоградский государственный технический университет</u>   |
|  <b>базовая кафедра</b><br><u>Поволжский научно-исследовательский институт производства и переработки мясомолочной продукции (Волгоград)</u>        |  <b>Российский Союз научных и инженерных общественных объединений (Москва, Россия)</b><br><u>Российский Союз научных и инженерных общественных объединений (Москва, Россия)</u> |  <b>Международный Союз научных и инженерных общественных объединений (Москва, Россия)</b><br><u>Международный Союз научных и инженерных общественных объединений (Москва, Россия)</u> |



**ПРОГРАММНЫЙ КОМИТЕТ**  
**III Международная конференция «Агробизнес, экологический  
инжиниринг и биотехнологии» - AGRITECH-III - 2020**



**Со-председатель**

Гуляев Ю.В. – академик Российской академии наук, Председатель Российского и международного Союза научных и инженерных общественных объединений, доктор физико-математических наук, профессор (Москва, Россия)



**Со-председатель**

Сурин Н.А. – академик Российской академии наук, научный руководитель Красноярского научно-исследовательского института сельского хозяйства ФИЦ КНЦ СО РАН, доктор сельскохозяйственных наук, профессор (Красноярск, Россия)



**Заместитель председателя**

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**Заместитель председателя**

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## СОСТАВ КОМИТЕТА

**Сложенкина М.И.** – д.б.н., профессор, чл.-корр. РАН, директор ГНУ НИИММП

**Горлов И.Ф.** – д.с.-х.н., профессор, академик РАН, научный руководитель ГНУ НИИММП, зав. кафедрой ТПП ВолгГТУ

**Навроцкий А.В.** – д.х.н., профессор, ректор ВолгГТУ

**Храмова В.Н.** – д.б.н., профессор, декан ФТПП ВолгГТУ

**Петрович М.** – д.с.-х.н., заместитель директора Института животноводства, Белград, Сербия

**Бош В.Л.** - проректор по науке Красноярского государственного аграрного университета, кандидат биологических наук, доцент (Красноярск, Россия)

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**Андреа Курин** – доцент Университета Марибор (Словения)

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**Натали Лорейн** – генеральный директор «D'Inéaires Interculturels» (Франция)

**Иванов А. Б.** – PhD, научный сотрудник Федеральной политехнической школы Лозанны (EPFL), Швейцария

**Серикбекулы Асхат** - управляющий партнер, направление «Цифровые технологии», ТОО "АйДжиЭм", член международной группы IGM (Алматы, Республика Казахстан)

**Зюзин А.М.** – председатель совета директоров Домов науки и техники РосСНИО, Заслуженный изобретатель Республики Мордовия, Россия



## РЕДАКЦИОННЫЙ СОВЕТ

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**Сергей Огнерубов** – компания Майкрософт, кандидат технических наук, PhD (США)

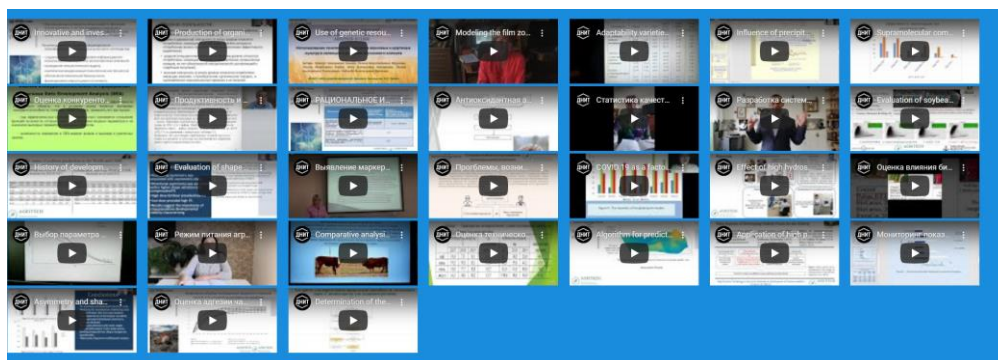
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**Гроспитч К.-Э.** – председатель Европейского совета информатики и микроэлектроники, PhD (Германия)

**Андреа Курин** – доцент Университета Марибор (Словения)

**Княжеченко О.А.** - младший н.с. ГНУ НИИММП

**Reports and presentations of the participants are available on the website: <http://conf.domnit.ru/ru/materialy/agritech-3-2020-materials/>**



## Section 1. Agribusiness, Economics and Organization of Agritech Engineering

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|-------------------|--|--|---|
| Agritech-III-1001 | The connection between the form of ownership and the activeness of the capital assets renewal in agriculture   | Z M Ivanova, S F Kokova, E M Sarbasheva, Z M Khochueva and M Kh Zhitteeva                                | V.M. Kokov Kabardino-Balkarian State Agricultural University, Nalchik, Russia             |
| Agritech-III-1002 | Features and modern approaches to the analysis of the financial condition of the debtor as a necessary element of the bankruptcy procedure of agricultural enterprises | E A Letyagina, E V Dadaye and A N Storozheva   | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia                                |
| Agritech-III-1003 | Modeling of mechanized cutting of fruit trees  | T M Aphudov  | Kabardino-Balkarian state agricultural university named after V.M. Kokov, Nalchik, Russia |
| Agritech-III-1004 | Modeling of disk sowing apparatus operation process  | Y A Shekikhachev, V H Mishhozhev, L Z Shekikhacheva, R H Zhigunov, Kan V Mishhozhev and Kaz V Mishhozhev | Kabardino-Balkarian state agricultural university named after V.M. Kokov, Nalchik, Russia |
| Agritech-III-1005 | Essence and criteria for sustainable development of rural territories  | Z E Shaporova and A V Tsvetyskh  | Krasnoyarsk State Agrarian University   |
| Agritech-III-1006 | Ergonomic design of overalls for agricultural workers of Uzbekistan  | Sabokhat Pulatova, Nargiza Bebutova  | Bukhara Engineering – Technological Institute, Bukhara, Uzbekistan                        |
| Agritech-III-1007 | Resource potential of introducing links with row crops in the Central Ciscaucasia  | Yu A Kuzychenko  | Federal State Budgetary Institution "North Caucasian Federal Scientific Agrarian Center   |
| Agritech-III-1008 | North Caucasian consumer model of economic growth: factors and mechanisms  | Kh Uyanayeva, N Kokov, T Toguzayev, M Kuchukov and F Alibius   | Kabardino-Balkar State Agricultural University named after V.M. Kokov. Nalchik. Russia.   |



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| Agritech-III-1009 | Technology of specialized zoning of agricultural lands for the purposes of their effective use              | N A Kapitulina, E V Kotsur and O N Dolmatova                       | Omsk State Agrarian University under P.A. Stolypin, Omsk, Russia   |
| Agritech-III-1010 | The effect of non-traditional feed additives on the metabolism of young pigs in Yakutia                     | N M Chernogradskaya, M F Grigorev, A I Grigoreva and S I Stepanova | Yakut state agricultural academy, Yakutsk, North-Eastern Federal University named after M.K. Ammosov, Yakutsk, Russia  |
| Agritech-III-1011 | Agricultural policy and import substitution opportunities in Russian Far East                               | T A Potenko, I V Zhupley, Y I Schmidt and L P Kvashko              | Federal Research Center of Agricultural Biotechnology of the Far East named after A.K. Chaiki, Ussuriisk; Federal state-funded Budget institution of the higher education «Primorskaya State Academy of Agriculture», Ussuriisk; Federal state-funded Budget institution of the higher education «Tver State Agricultural Academy», Tver; Institute of Railway Transport, a branch of Far Eastern State University of Transportation in Ussuriisk, Ussuriisk |
| Agritech-III-1012 | The role of the name of agricultural products origin place in creating competitive advantages of the region | I Pyzhikova K V Chepeleva Zh N Shmeleva1 and J A Marchenko         | Krasnoyarsk State Agrarian University, Center for standardization, metrology and testing in the Krasnoyarsk territory, Republic of Khakassia and Republic of Tyva  |
| Agritech-III-1013 | Formation of the dairy industry production potential: innovations and problems of their implementation      | M A Fedorova and A A Gorodov                                       | Krasnoyarsk State Agrarian University, Siberian Federal University, Reshetnev Siberian State University of Science and Technology, Krasnoyarsk, Russia   |
| Agritech-III-1014 | Agro-Industrial Integration in Modern Conditions  | T G Krasnova, T N Plotnikova, A S Dulesov and D J Karandeev        | Katanov Khakass State University, Abakan; Khakas Technical Institute of Siberian Federal University, Abakan, Russia  |

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| Agritech-III-1015 | Agricultural development trends in Russia   | Antonina A<br>Kolesnyak, Natalya M<br>Polyanskaya,<br>Erzhena B<br>Naydanova, Igor A<br>Kolesnyak | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia; Banzarov Buryat State University, Ulan-Ude, Russia; East Siberia State University of Technology and Management, Ulan-Ude, Russia; Plekhanov Russian University of Economics, Moscow, Russia                 |
| Agritech-III-1016 | Modern tools for promoting foodstuffs in the conditions of the digital economy development                              | A D Popova, Yu V Panchenko, K V Chepeleva and Zh N Shmeleva                                       | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia  |
| Agritech-III-1017 | Corbicula flour influence on egg production   | Z V Tsoy and D S Adushinov  | 1Department of zootechnology and recycling of animals products, Primorsky State agricultural academy, Ussuriisk, Russia; Irkutsk State Agricultural University named A.A. Ejevskogo, Irkutsk, Russia  |
| Agritech-III-1018 | Efficiency of application of granulated organic fertilizers based on chicken manure in the cultivation of spring wheat. | S.A. Zamyatin, R.B. Maksimova, R.I. Zolotareva, E.Yu. Udalova, V.A. Maksimov and S.G. Manishkin   | 1 Mari Agricultural Research Institute – branch of Federal Agrarian Research Center of the North-East named N.V.Rudnitsky, Ruem, Mari El Republic, Russian Federation. 2Mari Institute for Retraining of Agribusiness, Yoshkar-Ola Mari El Republic, Russian Federation |
| Agritech-III-1019 | Development of a KPI system for pig farms based on the criteria for evaluating the efficiency of the enterprise         | I I Chichenkov and R V Faizullin  | Kalashnikov Izhevsk State Technical University  |
| Agritech-III-1020 | Influence of technology without tillage on indicators of soil fertility in arid conditions of the South of Russia       | E V Pismennaya, M Yu Azarova, V A Stukalo and V M Perederieva                                     | Stavropol State Agrarian University, Stavropol, Russia  |

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| Agritech-III-1021 | Investigation of heat flux intensity during composting of organic wastes  | G K Ivakhnyuk, I L Skripnik, Y G Ksenofontov, T T Kaverzneva, and A V Basharichev | Saint-Petersburg State Institute of Technology, Saint-Petersburg University of State Fire Service of Emercom of Russia, Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia, Scientific Center for Integrated Safety of the Nuclear and Radiation Safety Administration, Research Center Kurchatov Institute - St. Petersburg Institute of Nuclear Physics, Leningrad Region, Gatchina, Russia |
| Agritech-III-1022 | The theoretical and methodological aspects of the resource and raw materials growth model   | Zh.S.Zhangorazova, E.S.Bakkuev, M.N.Eneeva, A.M.Tramova and U.M.Talas             | Kabardino-Balkar State Agricultural University named after V.M. Kokov. Nalchik. Russia.  |
| Agritech-III-1023 | The importance of the agrarian sector in the socio-economic systems development: methodological aspect  | O Y Frolova, L V Fomina and Zh N Shmeleva   | FSBEI HE Krasnoyarsk State Agrarian University, Krasnoyarsk, Russian Federation  |
| Agritech-III-1024 | Evaluation of the development of dairy cattle breeding and the provision of the population by the dairy products of the region with a continental climate | A A Kolesnyak, A V Kolesnyak, I A Kolesnyak and N M Polyanskaya                   | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia; Filippov Buryat State Academy of Agriculture, Ulan-Ude, Russia; Plekhanov Russian University of Economics, Moscow, Russia  |
| Agritech-III-1025 | Innovative and investment activity as the basis for the formation of production potential and sustainable development of dairy cattle breeding            | O Yu Gavrilova and M A Fedorova   | Krasnoyarsk state agrarian university, Krasnoyarsk, Russia   |
| Agritech-III-1026 | Using natural fertilizers for increasing red clover seed productivity   | S A Bekuzarova and A Shabanova  | Gorsky State Agrarian University, Vladikavkaz, Russia; The North Caucasian Research Institute of Mountain and Piedmont Agriculture – the Affiliate of Vladikavkaz Scientific Centre of the Russian Academy of  |

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| Agritech-III-1027 | The effect of vermicomposts on tomato productivity in the conditions of Yakutia   | D I Stepanova, M F Grigorev, A I Grigoreva and T G Dmitrieva     | Yakut state agricultural academy  |
| Agritech-III-1028 | Dynamics and structure of manufacturing bread and bakery products in the Krasnoyarsk region                               | O V Zinina N A Dalisova J A Olentsova                            | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia  |
| Agritech-III-1029 | The development prospects for the raw material base and the edible vegetable oils production in the Krasnoyarsk territory | K V Chepeleva and Zh N Shmeleva                                  | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia  |
| Agritech-III-1030 | Assessment of the agricultural mashinery company's competitiveness based on data envelopment analysis                     | O I Antamoshkina, N S Bordachenko, N V Kamenskaya and A O Stupin | Krasnoyarsk State Agrarian University, Siberian Federal University, Reshetnev University, Krasnoyarsk, Russia   |
| Agritech-III-1031 | Current Russian agricultural development trends   | A I Borisov and S S Danilova                                     | Federal State Autonomous Educational Institution of Higher Education "M. K. Ammosov North-Eastern Federal University", Yakutsk, Republic of Sakha (Yakutia), Russia |
| Agritech-III-1032 | Traceability as a tool for managing the economic viability of a poultry enterprise  | S I Valdokhina and L M Roiter                                    | Federal State Budget Scientific Institution Federal Scientific Center "All-Russian Research and Technological Poultry Institute" of Russian Academy of Sciences     |
| Agritech-III-1033 | Analysis of innovative activity in the agro-industrial complex of the Krasnoyarsk region                                  | O Zinina O Antamoshkina J Olentsova                              | Krasnoyarsk State Agrarian University», Krasnoyarsk, Russia   |

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| Agritech-III-1034 | Analysis and prospects for the development of agribusiness: regional aspect                               | V A Yakovlev, A N Stepanova                                | North-Eastern Federal University, Yakutsk;<br>North-Eastern Federal University, Yakutsk, Russia   |
| Agritech-III-1035 | Food security structure and agribusiness  | SA Trofimova, IB Trofimova and LG Gotsko                   | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia  |
| Agritech-III-1036 | Current state and development trends of spring rape market in the agricultural sector of Krasnoyarsk krai | A A Dorzheev, M E Sliva                                    | Krasnoyarsk State Agrarian University, 90 Mira street, Krasnoyarsk, 660049, Russia  |
| Agritech-III-1037 | The development of agricultural export through the generation of high quality analytics                   | L S Medvedeva  | Don State Technical University  |
| Agritech-III-1038 | Ways to increase the adaptability of potato varieties in the North Caucasus                               | S V Likhnenko, F T Zangieva, T A Morgoev and B V Bekmurzov | The North Caucasian Research Institute of Mountain and Piedmont Agriculture – the Affiliate of Vladikavkaz Scientific Centre of the Russian Academy of Sciences, Mikhailovskoe village; Vladikavkaz Scientific Centre of the Russian Academy of Sciences, Vladikavkaz, RNO-Alania, Russia |
| Agritech-III-1039 | Economics and organization of industrial and agricultural production in the Perm Territory                | A A Urasova , D A Balandin and A I Piskunov                | Perm State National Research University, Perm, Institute of Economics Ural Branch of the Russian Academy of Sciences, Ekaterinburg; Perm Institute of the Federal Penitentiary Service of Russia, Perm, Russia  |
| Agritech-III-1040 | The experimental data on the density, viscosity, and boiling temperature of the coffee extract            | A P Khomyakov, S V Mordanov, and T V Khomyakova            | The department of chemical plant machinery and equipment, Institute of Chemical Engineering, Ural Federal University, Ekaterinburg, Russia  |

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| Agritech-III-1041 | The issues of agrarian and economic policy transformation of the Yenisei province local self-government    | D V Kuskashev, and Yu V Lukinykh                             | Law Institute, Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia; Faculty of Foreign Languages, Krasnoyarsk State Pedagogical University named after V.P.Astafiev, Krasnoyarsk, Russia               |
| Agritech-III-1042 | Sentiment analysis of client reviews of the Russian Agricultural Bank service and predicted rating reviews | Akhmetshin Elvir Munirovich, Plotnikov Andrei Viktorovich    | Kazan Federal University, Elabuga Institute of KFU, Elabuga. Perm National Research Polytechnic University; Perm State Agro-Technological University named after Academician D.N. Pryanishnikov, Perm, Russia |
| Agritech-III-1043 | Tools for prioritizing the development of industrial and agricultural territories of the region            | A A Urasova , D G Krasilnikov, M A Mukhin, D A Balandin      | Institute of Economics, Ural Branch of the Russian Academy of Sciences, Ekaterinburg, Perm State National Research University, Perm, Russia   |
| Agritech-III-1044 | Indicators for assessing the sustainable rural development in the region                                   | Z E Shaporova and A V Tsvettsykh                             | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia  |
| Agritech-III-1045 | Homeostasis-preserving paths in dogs of service breeds at the critical periods of postnatal ontogenesis    | Y R Sadykova, E V Rodimova, E A Kornilova and L A Pastukhova | The Perm Military Institute of the National Guard Troops of the Russian Federation, Perm, Russia  |
| Agritech-III-1046 | Gunning fog-index measurement of customer reviews of the Russian Agricultural Bank                         | A V Plotnikov  | Perm National Research Polytechnic University; Perm State Agro-Technological University named after Academician D.N. Pryanishnikov, Perm, Russia  |
| Agritech-III-1047 | Customer Feedback Analysis: Case of Russian Agricultural bank  | A A Urasova, P A Kuznetsov, A V Plotnikov                    | Perm State University; Perm National Research Polytechnic University; Perm State Agro-Technological University named after Academician D.N. Pryanishnikov, Perm, Russia                                       |

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| Agritech-III-1048 | Some aspects of national experience of the cluster approach in agro-industrial complex                     | N M Chebokchinova,<br>S A Kapsargina   | LLC "Business School",<br>69 Shchetinkina str.,<br>655017, Abakan, Russian<br>Federation. Krasnoyarsk<br>State Agrarian University,<br>90 Mira Avenue, 660049,<br>Krasnoyarsk, Russian<br>Federation   |
| Agritech-III-1049 | Agricultural development for improving the well-being of the rural population of the Republic of Khakassia | N M Chebokchinova<br>and S A Kapsargina  | LLC "Business School",<br>Abakan, Russian<br>Federation. Krasnoyarsk<br>State Agrarian University,<br>Krasnoyarsk, Russian<br>Federation   |
| Agritech-III-1050 | Production of organic products as a modern factor of food security   | S P Plotnikova, T V<br>Kiyana, N B Mikheeva<br>and D I Kravtsov                      | Krasnoyarsk state<br>agrarian university,<br>Siberian federal<br>university, Krasnoyarsk,<br>Russia  |
| Agritech-III-1051 | Leasing as a form of state support development in the sphere of crop production                            | Mariya G Ozerova,<br>Anastasia V<br>Sharopova  | Krasnoyarsk State<br>Agrarian University   |
| Agritech-III-1052 | Economic evaluation of proceedings a virus - free planting material in vitro                               | Ibragim M Bamatov<br>and Dzhabrail M<br>Bamatov                                      | FGBOU VO Chechen<br>State University, Grozny<br>State Oil Technical<br>University named after<br>Academician M. D.<br>Millionshchikov, Grozny:<br>Russia   |
| Agritech-III-1053 | Rationale and economic feasibility of improving the technology of long-term storage of meat products       | O Cherednichenko<br>and L Bal-Prylypko   | National University of Life<br>and Environmental<br>Sciences of Ukraine, Kyiv<br>, Ukraine   |
| Agritech-III-1054 | Diagnosis of varroosis taking into account modern requirements   | A N Sotnikov, M I<br>Gulyukin, A M<br>Gulyukin, and Y G<br>Isaev                     | Federal State Budget<br>Scientific Institution<br>"Federal Scientific Centre<br>VIEV"  |
| Agritech-III-1055 | Competitiveness of rural areas: formation, assessment, growth reserves aspects                             | T I Bukhtiyarova, A N<br>Semin, D G<br>Demyanov, A A<br>Tenetko and Yu S<br>Nemykina | The Russian Presidential<br>Academy of National<br>Economy and Public<br>Administration,<br>Chelyabinsk branch,<br>Chelyabinsk, Ural State<br>Mining University Member<br>of the Russian Academy<br>of Science,<br>Yekaterinburg, Ural State<br>University of Economics,<br>Yekaterinburg, The |

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|                   |   |  | Russian Presidential Academy of National Economy and Public Administration, Chelyabinsk branch, Chelyabinsk, Russia   |
| Agritech-III-1056 | Some relevant aspects of the food security legal regulation in the system of the Ministry of Internal Affairs of Russian Federation | V A Vlasov, A S Sherstyanykh   | Krasnoyarsk State Agrarian University, Russia; Siberian Law Institute of the Ministry of Internal Affairs of Russia, Russia   |
| Agritech-III-1057 | The influence of hereditary factors on the qualitative and quantitative indicators of milk  | A A Nagibina, T F Lefler, I V Sidorenkova, T A Kurzyukova, and A G Volkova | FSBEI HE Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia   |
| Agritech-III-1058 | A new approach to the analysis of complex biological systems  | S I Neuymin, O Yu Olshvang and S I Katsman                                 | Russian Academy of Sciences, Ural Branch, Institute Botanic Garden, Ekaterinburg, Russian Federation; Ural State Medical University of the Ministry of Health of the Russian Federation, Ekaterinburg, Russian Federation; Ural Federal University, Ekaterinburg, Russian Federation  |
| Agritech-III-1059 | Productivity and nutritional value of perennial herbs used in animal feeding to create cultivated phytocenoses                      | N V Dolgopolova, Yu V Furman, E Ya Lebedko                                 | Kursk state agricultural Academy  |
| Agritech-III-1060 | The extreme factors influence on the grain quality technological indicators of spring wheat of Siberian selection                   | N S Kozulina, L V Fomina and Zh N Shmeleva                                 | FSBSI "Federal research center "Krasnoyarsk scientific center of the Siberian branch of the Russian Academy of Sciences" (FRC KSC SB RAS) KRASNOYARSK SCIENTIFIC-RESEARCH INSTITUTE OF AGRICULTURE – separate subdivision of FRC KSC SB RAS (KrasSRIA FRC KSC SB RAS), 660041 Svobodny, 66, Krasnoyarsk, Russian Federation Krasnoyarsk state agrarian university, Mira Avenue, 90, |



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| Agritech-III-1061 | Natural features and rational use of water resources in rice irrigation systems of Kazakhstan | Rau A G, Kadasheva Zh K, Rau G A, Meranzova R  | National Agrarian University, Almaty, Kazakhstan; Agricultural University in Plovdiv, Bulgaria  |
| Agritech-III-1062 | Assessment of the current state of pollution of agricultural land with heavy metals           | T.E. Afonina, M.A. Oshirova  | Irkutsk State Agricultural University named after A A Ezhevsky  |
| Agritech-III-1063 | Municipal solid waste landfills as a source of mycotoxins contamination in soil               | Lyudmila V Mosina, Galina N Chupakhina, Pavel V Maslennikov, Julia A Zhandarova, Elvira A Dovletyarova | Russian State Agrarian University - Moscow Timiryazev Agricultural Academy, Moscow, Russian Federation; Institute of Living Systems, Immanuel Kant Baltic Federal University, Kaliningrad, Russian Federation; Peoples' Friendship University of Russia (RUDN University), Moscow, Russia |
| Agritech-III-1064 | Organization of a nursery of maternal plants in the Chechen Republic and soil requirements.   | I M Bamatov, Z. V. Kimaev and D. M. Bamatov.   | Chechen State University, Ltd. "Scientific Production Firm "Sady Chechni", Grozny State Oil Technical University named after Academician M. D. Millionshchikov, Grozny: Russia  |
| Agritech-III-1065 | Productivity and nutritional value of natural forage lands on gullies and gullies             | N V Dolgopolova, Yu V Furman, E Ya Lebedko   | Kursk state agricultural Academy  |
| Agritech-III-1066 | Identification of the emergent pestivirus infections of small ruminants in Tajikistan         | A M Anoyatbekova, S V Alexeenkova and K P Yurov  | Federal State Budget Institution "Federal Scientific Center VIEV"; Moscow, Russia   |
| Agritech-III-1067 | THE ESTIMATE AGRICULTURAL MARKET IN THE CONDITIONS STRATEGIC DEVELOPMENT                      | I Kovaleva , N G Filimonova, M Ozerova and T V Strelzowa   | Atai State agricultural University, Barnaul, Russia , Krasnoyarsk State agricultural  |

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| Agritech-<br>III-1068 | Productivity and economic efficiency of protection products on spring rape hybrids in the conditions of the Krasnoyarsk forest-steppe | A N Khalipsky, E N Oleinikova1, N I Pyzhikova and I I Grishina | Krasnoyarsk State Agrarian University   |
| Agritech-<br>III-1069 | Monitoring of biological activity indicators of forest nursery soils in Siberia   | Natalya V Fomina   | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia  |
| Agritech-<br>III-1070 | Some issues related to the study of brucellosis in Uzbekistan   | A D Ulugmuradov and M A Uzimurodov                             | Veterinary Research Institute. Samarkand. Uzbekistan  |
| Agritech-<br>III-1071 | Efficiency of biologization of agriculture in Western Siberia (on the example of the Omsk region)                                     | N A Voronkova, I A Bobrenko, N M Nevenchannaya, V I Popova     | Federal state budgetary educational institution of higher professional education "Omsk state technical University», Federal state budgetary scientific institution "Omsk agricultural research center», Federal state budgetary educational institution of higher professional education " Omsk state agrarian University named after P. A. Stolypin» |
| Agritech-<br>III-1072 | Rational use of freshwater ecosystem resources in crayfish farming  | E N Alexandrova and K L Tarasov                                | All-Russian Scientific Research Institute of Irrigation Fisheries of the Ministry of Science and Higher Education of the Russian Federation (FGBNU VNIIR) Moscow Region; Moscow State University M.V. Lomonosov, Faculty of Biology, Department of Mycology and Algology ), Moscow, Russia  |
| Agritech-<br>III-1073 | Improvement of allergic diagnostics of animals under the conditions of Uzbekistan   | AD Ulugmuradov, AA Saidov and MA Ruzimurodov                   | Veterinary Research Institute. Samarkand. Uzbekistan  |

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| Agritech-III-1074 | Application of biogas in Russia   | E S Simbirskikh  | Vyatka State Agricultural Academy, Kirov, Russia  |
| Agritech-III-1075 | Index of economic and useful characteristics of red-and-white cattle breed depending on the breed of the used breeding bulls          | N G Ryzhova, I M Volohov and A G Anashkin  | All Russian research institute of animal breeding, Lesnye Poliany, Pushkin district, Moscow region  |
| Agritech-III-1076 | The influence of preparation "Lactokormovit" on dairy efficiency cows during milking  | U P Nikulin, O A Nikulina and Z V Tsoy   | Department of zootechnology and recycling of animals products, Primorsky State agricultural academy, Ussuriisk, Russia  |
| Agritech-III-1077 | Subsidizing agricultural production of the region to achieve food security  | V V Nosov, K A Zhichkin, L N Zhichkina, S A Novoselova, N L Fomenko and L P Bepamjatnova | K.G. Razumovsky Moscow State University of technologies and management, Moscow, Russia; Samara State Agrarian University, Kinel, Russia; Samara State Agrarian University, Kinel, Russia; Saratov State Vavilov Agrarian University, Saratov, Russia; Yury Gagarin State Technical University of Saratov, Saratov, Russia; K.G. Razumovsky Moscow State University of technologies and management, Moscow, Russia |
| Agritech-III-1078 | Effect of high hydrostatic pressure in combination with low salt content for the improvement of texture and palatability of meat gels | Anastasiia Maksimenko, Ryo Kikuchi, Satomi Tsutsuura and Tadayuki Nishiumi               | Niigata University  |
| Agritech-III-1079 | History of development of Soybean Production in the Amur Region and Far East District in the USSR                                     | A I Boirskaia, H Hasegawa, B S Boiarskii and A V Lyude                                   | Niigata University, Niigata, Japan; All Russian Scientific Research Institute of Soybean, Blagoveschensk, Russia  |
| Agritech-III-1080 | Management in the agro-industrial sector: methods for assessing effectiveness of the network associations                             | O A Freidman and Yu N Malanina   | Irkutsk State Transport University, 15, Chernyshevsky St., 664074, Irkutsk, Russia  |

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| Agritech-III-1081 | Phytotesting and environmental assessment of soil in the greenhouse complex  | N V Fomina   | Красноярский государственный аграрный университет, Красноярск, Россия   |
| Agritech-III-1082 | Influence of chemicalization levels on productivity and grain quality of zoned spring wheat varieties in Pre-Baikal area   | O B Gabdrakhimov A M Zaitsev V I Solodun and E N Kusnetsova                            | Irkutsk State Agricultural University named after A.A. Ezhevsky, Molodezhny Settlement, Irkutsk Scientific Research Institute of Agriculture, Pivovarikha, Irkutsk district, Irkutsk region, Russian Federation |
| Agritech-III-1083 | Comparative evaluation of seed productivity rapeseed (brassica napus), camelina (camelina sativa) and white mustard (sinapis alba) in conditions forest-steppe zone of prebaikalia | R A Sagirova, T B Vlasova, S V Shapenkova  | Irkutsk State Agrarian University   |
| Agritech-III-1084 | Comparative study of the influence of type belonging on the productive and biological indicators of first-calf heifers   | T F Lefler, I V Sidorenkova, A A Nagibina and A G Volkova                              | FSBEI HE Krasnoyarsk State Agrarian University, 90 Mira Ave., Krasnoyarsk, 660042, Russia   |
| Agritech-III-1085 | Impediments to the development of Nigeria's agricultural exports   | Nina G Gavrilova   | Institute for African Studies of the Russian Academy of Sciences  |
| Agritech-III-1086 | Optimization processes in the internet of things system at agricultural enterprises  | I Ya Lvovich, Ya E Lvovich, A P Preobrazhenskiy, Yu P Preobrazhenskiy and O N Choporov | Voronezh institute of high technologies; Voronezh state technical university  |
| Agritech-III-1087 | METHANE UTILIZATION WHEN PROCESSING THE K10 COAL SEAMS IN KARAGANDA BASIN  | A A Kenetayeva, D Yu Pak, A R Tenchurina, G S Shaikhova and Zh T Tokusheva             | Karaganda State Technical University, Karaganda, Kazakhstan   |
| Agritech-III-1088 | Budget risks in the management of small businesses in rural areas  | N V Parushina, N A Lytneva, M E Khanenko, M G Starostin and M I Klimoshenko            | Orel State University of Economics and Trade, Orel; Russian Presidential Academy of National Economy and Public Administration, RANEPА, Orel, Russia  |

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| Agritech-III-1089 | Analysis of conformity with quality and safety requirements of fruits and vegetables sold on the Russian market                | I V May and N V Nikiforova   | Federal State Budgetary Scientific Institution “Federal Scientific Center for Medical and Preventive Health Risk Management Technologies” of the Federal Supervision Agency for Customer Protection and Human Welfare  |
| Agritech-III-1090 | Precision agriculture in the Russian Federation: problems and directions in development  | E V Kulyasova, N N Novik, , N D Klyukin and G D Charyyarova              | State University of Management; National Research University Higher School of Economics; The Diplomatic Academy of the Ministry of Foreign Affairs of the Russian Federation; Peoples’ Friendship University of Russia (RUDN University); Moscow, Russian Federation |
| Agritech-III-1091 | Milk production dynamics in the Russian Federation: causes and consequences  | V V Nosov, N M Suray, O A Mamaev, O V Chemisenko, P A Panov, M G Pokidov | SK.G. Razumovsky Moscow State University of technologies and management, Moscow, Russian Federation  |
| Agritech-III-1092 | A study of the effectiveness of state support for agriculture in the region (based on material from the Krasnoyarsk Territory) | D V Parshukov, Z E Shaporova and Yu I Koloskova                          | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia   |
| Agritech-III-1093 | State support for export of agro-industrial complex products of the Krasnoyarsk Territory                                      | N A Dalisova, M V Karaseva   | Krasnoyarsk State Agrarian University, Krasnoyarsk; Siberian Federal University, Krasnoyarsk, Reshetnev University, Krasnoyarsk, Russia  |
| Agritech-III-1094 | New ecological and economic horizons in poultry  | L. A. Zazykina, V.A. Gusev, I. G. Sysoeva                                | Budget Scientific Institution Federal Scientific Center “All-Russian Research and Technological Poultry Institute” of Russian Academy of Sciences, Sergiev Posad, Russia   |

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| Agritech-III-1095 | Human capital as a fundamental determinant of rural development   | L A Yakimova and Streltsova A V                          | Krasnoyarsk State Agrarian University   |
| Agritech-III-1096 | Analysis of environmental performance of a turbocharged diesel engine operating on natural gas                    | M I Araslanov  | FSBEI HE Vyatka State Agricultural Academy, Kirov, Russia   |
| Agritech-III-1097 | Financial and economic characteristics of the average agricultural enterprise of the Krasnoyarsk Territory        | N I Pyzhikova, E V Pykhanova and E Yu Vlasova            | Krasnoyarsk State Agrarian University   |
| Agritech-III-1098 | Strategic directions for the development of agricultural exports in the regions of the Russian Federation         | E V Stepanova  | Krasnoyarsk State Agrarian University, Siberian Federal University, Krasnoyarsk, Russia   |
| Agritech-III-1099 | Wheat industry compared and contrasted between Russia and the USA   | Musa V Shavanov, I I Shigapov                            | Chechen State University, Grozny; Technological Institute – branch of Federal State Budgetary Educational Institution of Higher Education «Ulyanovsk State Agricultural University», Dimitrovgrad, Russia |
| Agritech-III-1100 | The level of productive qualities of cows of black-motley breed contained in standard conditions of Russian farms | M A Petrova, D I Kolesov, M P Kashkova and E E Lukashina | Russian State Social University, Moscow, Russia; Sechenov University, Moscow, Russia; State University of Land Management, Moscow, Russia   |
| Agritech-III-1101 | State agricultural companies in Russia: characteristic and legal status   | Yakovlev Alexander                                       | State University of Management, Moscow, Russia; Diplomatic Academy of the Ministry of Foreign Affairs of the Russian Federation, Moscow, Russia   |
| Agritech-III-1102 | Value and role of the strategic management in the development of agricultural enterprises                         | N A Dalisova, A V Sharopatova and M V Karaseva           | Krasnoyarsk State Agrarian University, Siberian Federal University, Krasnoyarsk, Russia   |

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| Agritech-III-1103 | Economy of Russian regions in the context of a pandemic  | V B Dzobelova, A V Olisaeva, A V Sharopatova, D V Parshukov     | North Ossetian State University, Vladikavkaz, Russia, Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia   |
| Agritech-III-1104 | Introduction of innovative technology for the production of textured products from grain raw materials   | M A Yanova, A V Sharopatova, Yu F Roslyakov                     | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia; Kuban State Technological University, Krasnodar, Russia  |
| Agritech-III-1105 | Evaluation of technological and cereal qualities of grains of zoned barley varieties grown in subtaiga-taiga zone of the Irkutsk region.                                     | V Yu Grebenshchikov, V S Kopylova, N O Tyutrin, V V Verkhoturov | Irkutsk State Agrarian University named after A.A. Ezhevsky, Irkutsk, Russia; Irkutsk national research technical University, Irkutsk, Russia; Kaliningrad State Technical University, Kaliningrad, Russia |
| Agritech-III-1106 | Texture-modified foods for the elderly and people with dysphagia: insights from Japan on the current status of regulations and opportunities of the high pressure technology | Anastasiia Maksimenko, Anna Lyude and Tadayuki Nishiumi         | Niigata University   |

## Section 2. Information Technologies, Automation Engineering and Digitization of Agriculture

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| Agritech-III-2001 | Evaluation of shape and asymmetry in rye leaf                      | S G Baranov, I E Zykov, D D Kuznetsova, A M Antsyshkina and L V Fedorova  | Federal State Budgetary Scientific Institution, Vladimir Vladimir State University named after A.G. and N.G. Stoletov, State Humanitarian Technological University, Orekhovo-Zuevo, I.M. Sechenov First Moscow State Medical University, Russian Federation |
| Agritech-III-2002 | Digitization of agricultural land using an unmanned aerial vehicle | N V Abramov, S A Semizorov, S V Sherstobitov, M V Gunger and D A Petukhov | Northern Trans-Ural State Agricultural University, Tyumen, Novokubansk branch of Russian Research Institute of Information and Technical and Economic Research on Engineering Support of Agro-industrial Complex, Novokubansk, Russia                       |

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| Agritech-III-2003 | Development of a neural network to control the process of cleaning the pyrolysis fraction from acetylene compounds | E A Muravyova  | Ufa State Petroleum Technological University Branch in Sterlitamak, Sterlitamak, Russian Federation  |
| Agritech-III-2004 | Algorithm design for optimization of service requests for repair   | L V Rossihina, A V Kalach, A Yu Akulov, T P Sysoeva and A S Kravchenko | Voronezh Institute of the Federal Penitentiary Service of Russia, Voronezh, Russia; Ural Institute of State Fire Service of EMERCOM of Russia, Ekaterinburg, Russia; Saint-Petersburg University of EMERCOM of Russia, Saint-Petersburg, Russia  |
| Agritech-III-2005 | Choice of impedance parameter of strawberry tissue for detection of fungal diseases                                | A F Alejnikov, A F Cheshkova and V V Mineev                            | Siberian Federal Scientific Centre of Agro technology, Russian Academy of Science, Krasnoobsk, Russia; Novosibirsk State Technical University, Novosibirsk, Russia   |
| Agritech-III-2006 | GIS technologies application in useful fossils search in the territory of the Republic of Sakha (Yakutia)          | D V Andreev and M E Makarova   | Federal State Autonomous Educational Institution of Higher Education "M. K. Ammosov North-Eastern Federal University", Yakutsk, Russia   |
| Agritech-III-2007 | An intellectual power network for rural areas design   | S N Kostarev, S N Goryachev, A N Gladkov and T G Sereda                | Perm Military Institute of National Guard Troops of the Russian Federation, Perm; Perm State Agrarian-Technological University named after academician D N Prianishnikov, Perm; Perm National Research Polytechnic University, Perm; Main Directorate of Communications of National Guard Troops of the Russian Federation, Moscow, Russia |
| Agritech-III-2008 | Training for the mining and metallurgical industry based on electronic educational technologies                    | N V Dyorina, V S Velikanov, E I Rabina and T Yu Zalavina               | Nosov Magnitogorsk State Technical University  |



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| Agritech-III-2009 | Improving the accuracy of gamma radiation measurements in radiation monitoring                   | D V Moiseev and L I Lukina   | SEVASTOPOL STATE UNIVERSITY, Sevastopol, Russia  |
| Agritech-III-2010 | On the development of information technologies in the agro-industrial complex of modern Russia   | G G Fastovich and S A Kapsargina   | Krasnoyarsk State Agrarian University, Krasnoyarsk City, Russia  |
| Agritech-III-2011 | The introduction of the digital farming concept in the agricultural sector of Russia             | V V Sulimin, V V Shvedov, M I Lvova  | Ural State University of Economics, Yekaterinburg, Russia  |
| Agritech-III-2012 | Determination of the period of operation of winter forest road using climate data statistics     | A P Mokhirev and I A Petrova   | Lesosibirsk Branch of Reshetnev Siberian State University of Science and Technology, Lesosibirsk, Russian Federation   |
| Agritech-III-2013 | OPTIMIZATION OF THE ENVIRONMENTALLY SAFE TECHNOLOGY FOR THE PROCESSING OF LIQUID ANIMAL BREEDING | T A Kolesnikova, M A Kulikova, D V Kasharin and D I Monastyrskiy               | Federal State Budget Educational Institution of Higher Education "Platov South-Russian State Polytechnic University (NPI)», Novochoerkassk, Russia   |
| Agritech-III-2014 | Formation of a digital agricultural development system   | Ju A Romanova, D E Morkovkin, Ir N Romanova, K A Artamonova and A A Gibadullin | Moscow state University of technology and management named after G. K. Razumovsky (First Cossack University), Moscow, Russian Federation; Financial University under the Government of the Russian Federation, Moscow, Russian Federation; Smolensk agricultural Academy, Smolensk, Russian Federation; State University of Management, Moscow, Russian Federation |
| Agritech-III-2015 | The model of increasing the efficiency of agricultural robotic system                            | G V Getmanova, Ph A Ryzhov and Ya A Shchenikov                                 | Saint-Petersburg State University of Aerospace Instrumentation   |

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| Agritech-III-2016 | The formation of the database information component in the genetic monitoring of Siberian forms of barley | L N Shevtsova, S A Bronov and Z N Shmeleva                                | Krasnoyarsk State Agrarian University, Siberian Federal University, Krasnoyarsk, Russia  |
| Agritech-III-2017 | Virtual model of an induction motor with rotor eccentricity   | A Yu Prudnikov, V V Bonnet and A Yu Loginov                               | Irkutsk State Agricultural University named after A.A. Ezhevsky  |
| Agritech-III-2018 | Computer program for forecasting and calculating the number of winter wheat phytophages                   | N N Glazunova, Yu A Bezgina, L V Maznitsyna, L V Tuturzhan and L A Mikhno | Stavropol State Agrarian University, Russia  |
| Agritech-III-2019 | Hyperspectral reflectance system for plant diagnostics  | D N Klimenko, T A Gurova, O V Elkin and L V Maksimov                      | Siberian Federal Research Center of Agricultural Biotechnology of the RAS, pos. Krasnoobsk, Novosibirskiy r-n, Novosibirskaya obl., Russia, Russian Federation; Novosibirsk State Technical University, Novosibirsk, Russian Federation; Institute of Automation and Electrometry, Novosibirsk, Russian Federation |
| Agritech-III-2020 | Analysis of accumulated precipitation based on information from weather stations                          | O E Yakubailik and T V Yakubailik   | Federal Research Center Krasnoyarsk Science Center of the SB RAS; Institute of Computational Modelling SB RAS, Krasnoyarsk, Russia   |
| Agritech-III-2021 | Application of the IoT technology in agriculture  | N V Titovskaya, T S Titovskaya and S N Titovskii                          | Krasnoyarsk State Agrarian University; Siberian Federal University, Krasnoyarsk, Russia  |
| Agritech-III-2022 | An interplay of annual temperature variation and NDVI figures in clustering of small watersheds           | M G Erunova and M G Sadovsky  | Federal Research Center Krasnoyarsk Science Center of the SB RAS; Institute of Computational Modelling SB RAS; Siberian Federal University, Krasnoyarsk, Russia  |

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| Agritech-III-2023 | Genetic Parameters of productivity and exterior traits of dairy cattle  | S D Batanov, O S Starostina and I A Baranova  | Izhevsk State Agricultural Academy, Izhevsk, Russia  |
| Agritech-III-2024 | Evaluation of soybean condition under various fertilizer application by the relationship of the red and near-infrared bands reflectance in scatter plot                         | B S Boiarskii, A A Malashonok, M O Sinegovskii, K Wakamori and H Hasegawa           | All-Russian Scientific Research Institute of Soybean, Blagoveschensk, Russia; VisionTech Inc., Tsukuba, Japan; Niigata University, Niigata, Japan  |
| Agritech-III-2025 | Analysis of accumulated precipitation based on satellite data in Central Siberia  | O E Yakubailik and T V Yakubailik   | Federal Research Center Krasnoyarsk Science Center of the SB RAS; Institute of Computational Modelling SB RAS, Krasnoyarsk, Russia   |
| Agritech-III-2026 | The need for introducing new technology in agriculture to ensure a sustainable future   | I A Magomedov, M S-U Khaliev  | Chechen State University   |
| Agritech-III-2027 | Comparison of interpolated soil nutrients maps obtained with application of various approaches of ordinary kriging  | E V Smirnova, K G Giniyatullin, I A Sahabiev and R V Okunev                         | Kazan Federal University, Kazan, Russia  |
| Agritech-III-2029 | Evaluation of the influence of biologically active substances on the physiological processes of soybean plants with the use of multispectral camera and unmanned aerial vehicle | M P Mikhailova, V T Sinegovskaia, B S Boiarskii, M O Sinegovskii and A I Boiarskaia | All-Russian Scientific Research Institute of Soybean, Blagoveschensk, Russia   |
| Agritech-III-2030 | Agriculture and its contribution to global warming  | I A Magomedov, M S-U Khaliev and A M Bagov  | Chechen State University   |
| Agritech-III-2031 | Research of Daubechies Wavelet spectrum of vibroacoustic signals for diagnostic of diesel engines of combine harvesters   | L L Titova, Yu M Chernik, Yu O Gumenyuk and M M Korobko                             | National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine; National Scientific Center "Institute of Mechanization and Electrification of Agriculture", Glevaha, Ukraine |

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| Agritech-III-2032 | Digitalization and Mechanization in Agriculture Industry   | Adam U Mentsiev, Elmira F Amirova, Nurgun V Afanasev                   | Chechen State University, Grozny; Kazan State Agrarian University, Kazan; North-Eastern Federal University named after M.K. Ammosova, Yakutsk, Russia |
| Agritech-III-2033 | Building an artificial vision system of an agricultural robot based on the DarkNet system                            | M G Dorrer, A A Popov and A E Tolmacheva                               | Reshetnev Siberian State University of Science and Technology, Krasnoyarsk, Russia  |
| Agritech-III-2034 | Management of digital technologies development in agriculture of the Russian Federation                              | N S Kulyasov, N N Grinev, N Yu Nikolaeva and D N Klepikov              | State University of Management; D.Mendeleev University of Chemical Technology of Russia, Moscow, Russia   |
| Agritech-III-2035 | Comparative analysis of data on air temperature based on current weather data sets for 2007-2019                     | A V Dergunov and O E Yakubailik  | Federal Research Center Krasnoyarsk Science Center of the SB RAS; Institute of Computational Modelling SB RAS, Krasnoyarsk, Russia                    |
| Agritech-III-2036 | IoT and mechanization in Agriculture: problems, solutions, and prospects   | Adam U Mentsiev, Ali U Mentsiev, Elmira F Amirova                      | Chechen State University  |
| Agritech-III-2037 | Determination of factors affecting the characteristics of photovoltaic modules in the conditions of Krasnoyarsk Krai | A.S. Debrin, A.F. Semenov, A.V. Zapletina, A.A. Vasilenko, N.V. Kuzmin | FGBOOU WAUGH Krasnoyarsky state agricultural university, Krasnoyarsk, Krasnoyarsky Krai, Russia   |
| Agritech-III-2038 | Electric traction drive of an agricultural tractor   | E I Deryabin and L A Zhuravleva  | LLC Stankotechprom Chelyabinsk Russia   |
| Agritech-III-2039 | Comparative analysis of electric drive control systems for technological facilities in the agricultural sector       | Platonov Vladislav V, Tulegenov E.                                     | RIK-Energo Ild, Chelyabinsk, Russia   |
| Agritech-III-2040 | Synthesis of control algorithms for traction electric drives based on flux-switching DC motor for agriculture        | A S Gainutdinov  | Kopeysky machine-building plant, Russia   |

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| Agritech-III-2041 | Electric drive of the generator of the diesel-electric tractor DET-250M2 on the basis of a Field Regulated Reluctance Machine                       | M N Kornienko, V V Fediakov, A D Golykov and L A Zhuravleva                  | Chelyabinsk Tube Rolling Plant, Chelyabinsk, Russia   |
| Agritech-III-2042 | Optimization of the magnetic system of a VR machine for traction electric drives in agriculture   | E A Zakharov and E Tulegenov   | helprivod Ild, Chelyabinsk, Chelyabinsk, Russia   |
| Agritech-III-2043 | Mathematical modeling of a PV installation for rural electrification  | A A Medyakov, D M Lastochkin, A D Kamenskih, I K Garipov and A P Ostashenkov | Volga State University of Technology, Mari State University, Yoshkar-Ola, Mari El Republic, Russian Federation  |
| Agritech-III-2044 | The research of multiversion methods for improving the fault tolerance of software systems for monitoring the parameters of technological processes | V V Losev, I V Kovalev, M V Saramud  | Reshetnev Siberian State University of Science and Technology, Siberian Federal University, Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia, China Aviation Industry General Aircraft Zhejiang Institute Co., Ltd, China   |
| Agritech-III-2045 | Analysis of the economic effect of increasing the reliability of information systems of digital agricultural enterprises                            | I V Kovalev, N A Testoyedov and E V Tuev                                     | Siberian Federal University, Krasnoyarsk State Agrarian University, China Aviation Industry General Aircraft Zhejiang Institute Co., Ltd, China, Reshetnev Siberian State University of Science and Technology, Krasnoyarsk, Russia, JSC Academician M F Reshetnev Information satellite systems, Zheleznogorsk, Krasnoyarsk region, Russia |
| Agritech-III-2046 | Analysis of RTOS for hardware and software support of environmental monitoring technologies   | I V Kovalev, D I Kovalev and A S Kuznetsov                                   | Siberian Federal University, Krasnoyarsk State Agrarian University, Reshetnev Siberian State University of Science and Technology, Krasnoyarsk, Russia, Krasnoyarsk Science and Technology City Hall of the Russian Union of Scientific and Engineering Association, Krasnoyarsk, Russia  |

## Section 3. Biological Technologies in Agriculture: from Molecules to Ecosystems

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| Agritech-III-3001 | The influence of the urban ecosystem on the quality of life of people over 50   | Galina A Sevriukova, Irina V Khvastunova, Ekaterina O Belikova and Polina L Sevriukova   | Volgograd State University; Volgograd State Technical University; Volgograd State Medical University, Volgograd, Russia   |
| Agritech-III-3002 | Histological analysis of morphostructural changes in bronchial and lung tissues in cattle fetuses during chlamydia infection in Perm Krai and Tyumen Oblast of the Russian Federation | N A Tatarnikova, S N Kostarev and T G Sereda   | Perm State Agrarian-Technological University named after academician D N Prianishnikov; Perm Military Institute of National Guard Troops of the Russian Federation; Perm National Research Polytechnic University, Perm, Russia |
| Agritech-III-3003 | Chemiluminescent analysis as perspective instrument for the honey quality assessment  | M I Lesovskaya and A S Igoshin   | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia  |
| Agritech-III-3004 | Plant molluscicide for prevention of animal helminthosis  | Alexey N Postevoy and Oleg N Andreyanov  | All-Russian Scientific Research Institute for Fundamental and Applied Parasitology of Animals and Plant – a branch of the Federal State Budget Scientific Institution “Federal Scientific Centre VIEV”, Moscow, Russia          |
| Agritech-III-3005 | Nutritional medium for differentiation of malignant anthrax   | Igor V Pavlenko, Svetlana A Gryn, Evgenia V Markova, Irina N Matveeva, Tatyana A Skotnikova, Vladimir I. Eremets, Sergey Yu Smolentsev | All-Russian Scientific Research and Technological Institute of Biological Industry, Moscow region, Russia; Mari State University, Yoshkar-Ola city, Russia  |
| Agritech-III-3006 | Improved measures for the prevention of mass mastitis in cows in the Vologda region farms   | L K Semina, N N Avduevskya, Z A Skulyabina, G A Baldiceva and A V Gorbatov   | Vologda branch of FGBNU FNC VIEW RAN, Vologda, 160000, Russian Federation; FGBNU FNC VIEW RAN, Moscow, 109428, Russian Federation   |
| Agritech-III-3007 | The influence of non-traditional feed additives on the productivity of horses in Yakutia  | A A Sidorov, M F Grigorev, A I Grigoreva and A N Kyundayaytseva  | Yakut State Agricultural Academy, Yakutsk; North-Eastern Federal University named after M.K. Ammosov, Yakutsk   |

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| Agritech-III-3008 | Studying the metabolism of horses when feeding them zeolite-sapropel feed additives in the conditions of Yakutia                                       | M F Grigorev, A A Sidorov, A I Grigoreva and V V Sysolyatina                     | Yakut State Agricultural Academy, Yakutsk; North-Eastern Federal University named after M.K. Ammosov, Yakutsk   |
| Agritech-III-3009 | Efficacy of the combined administration of coccidiocide and prebiotic to broiler chickens infected with <i>Eimeria tenella</i> oocysts                 | E O Kachanova and E V Pavlova  | All-Russian Scientific Research Institute of Fundamental and Applied Parasitology of Animals and Plants named after K.I. Skryabin (ARSRIP) - Branch of the Federal State Budget Scientific Institution «Federal Scientific Center - All-Russian Scientific Research Institute of Experimental Veterenari Medicina K.I. Skryabin and Y.R. Kovalenko the Russian Academy of Sciences», Moscow; Moscow State University of Food Production (Institute of Veterinary Medicine, Veterinary Sanitary Expertise and Agro-Security), Moscow, Russia |
| Agritech-III-3010 | Harmfulness of the weed plant <i>Cirsium arvense</i> and spring wheat productivity after herbicides application  | Z I Mikhailova, E P Puchkova and O V Martynova                                   | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia  |
| Agritech-III-3011 | The use of biologics Sedimin® and Gamavit to increase the adaptive capacity of animals   | I Y Arestova, V V Alekseev, E G Sharonova, M Y Kupriyanova                       | I.Y. Yakovlev State Pedagogical University of Chuvash, Cheboksary, Russia   |
| Agritech-III-3012 | Increasing the biological activity of benzimidazoles based on the supramolecular nanoscale delivery system with licorice extract against helminthiasis | A I Varlamova, I A Arkhipov, S S Khalikov, M V Arisov, K M Sadov and A V Dushkin | All-Russian Scientific Research Institute of Fundamental and Applied Parasitology of Animals and Plant – a branch of the Federal State Budget Scientific Institution “Federal Scientific Centre VIEV”, Moscow; A.N. Nesmeyanov Institute of Organoelement Compounds of Russian Academy of Sciences, Moscow; Institute of Solid State Chemistry and Mechanochemistry of the Siberian Branch of the Russian Academy of Sciences, Novosibirsk.   |

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| Agritech-III-3013 | Evaluation of the effect of fish yersiniosis on the course of antioxidant protection processes in trout   | A E Droshnev  | Federal State Budget Scientific Institution "Federal Scientific Centre VIEV" (FSC VIEV), Moscow, Russia   |
| Agritech-III-3014 | The influence of environmental factors on the indicators of biological systems of dairy cows in anthropogenic zone conditions                       | Ivan I Kalyuzhny, Ivan A Nikulin, Aleksandr M Gertman, Tatyana S Samsonova and Olga V Naumova | Saratov State Agrarian University named after N.I. Vavilov, Saratov city, Russia; Voronezh State Agrarian University named after Emperor Peter the Great, Voronezh city, Russia; South Ural State Agrarian University, Chelyabinsk city, Russia |
| Agritech-III-3015 | The importance of microelements in forming duck liver morphology  | L V Kletikova, A N Martynov, G A Fedorov and V I Garkun                                       | State Agricultural Academy, Ivanovo, Russia; Shuy branch of Ivanovo State University, Shuya, Russia   |
| Agritech-III-3016 | Changes in birds' demographic parameters of a key ornithological territory "Tract Tryokhosyorky" (Minusinsk basin) with fluctuations in water level | T V Zlotnikova and T A Geld   | Katanov Khakass State University, Abakan, Russia  |
| Agritech-III-3017 | Reproducing the qualities of cows with different methods of synchronization of sexual hunting   | IV Serdyuchenko, TA Khoroshailo and Y A Kozub   | Kuban State Agrarian University named after I.T. Trubilin, Krasnodar; Irkutsk State Agricultural University named after A.A. Ezhevsky, Irkutsk, Russia  |
| Agritech-III-3018 | Adaptability varieties of seed peas in the Krasnoyarsk forest-steppe  | E V Kozhukhova, L P Baykalova and E A Savinich  | Krasnoyarsk Research Institute of Agriculture of the Federal research center Krasnoyarsk scientific center SB RAS, Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia   |
| Agritech-III-3019 | Dynamic Model of Crops' Normalized Difference Vegetation Index in Central Federal District Environment  | A G Bukhovets, E A Semin, M V Kucherenko and S I Yablonovskaya                                | Voronezh State Agricultural University named after Emperor Peter the Great, Voronezh, Russian Federation  |
| Agritech-III-3020 | Toxin-forming properties of Siberian isolates of the genus Fusarium fungi   | N S Kozulina, A V Vasilenko, A A Vasilenko and Zh N Shmeleva                                  | FSBEI HE Krasnoyarsk State Agrarian University, Krasnoyarsk   |
| Agritech-III-3021 | Comparative analysis of the exterior of culled cows of different breeds in the Baikal Region  | D, S, Adushinov, A, I, Zheltikov, A, I, Kuznetsov, A, D, Adushinov, A, O, Frolenko            | Irkutsk state agrarian University named after A. A. Ezhevsky, Molodezhny village, Irkutsk district, Irkutsk region, Russia; Novosibirsk state agrarian  |



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|                   |  |  | University, Novosibirsk, Russia; Irkutsk research Institute of agriculture, Pivovarikha village, Irkutsk district, Irkutsk region, Russia   |
| Agritech-III-3022 | Results of safe methods of protection of fruit plantations against pests   | A K Apazhev, V N Berbekov, Y A Shekikhachev, L M Hazhmetov, G V Bystraya and L Z Shekikhacheva | Kabardino-Balkarian state agricultural university named after V.M. Kokov; North Caucasus Research Institute of Mountain and Pre-mountain Horticulture, Nalchik, Russia  |
| Agritech-III-3023 | Expression of receptors in cow's oviductal epithelial cells to prostaglandins E2, D2 and F2 $\alpha$                 | Ch Kusheev, S Pavlov, J Cao, S Lomboeva and L Abidueva   | Irkutsk State Agrarian University named after A.A. Ezhevsky, Irkutsk region, Irkutsk district, Molodezhny settlement, 664038, Russia; Inner Mongolia Agricultural University, 306 Zhaowuda Rd., Hohhot, Inner Mongolia, China; Banzarov Buryat State University, St. Ranzhurov 6a, Ulan-Ude, 670000, Russia |
| Agritech-III-3024 | Domestic animals and modern zoological systematics   | I G Lebedev, N V Pimenov, M A Lomskov, A M Konovalov and R F Ivannikova                        | Moscow State Academy of Veterinary Medicine and Biotechnology – MVA by K.I. Skryabin, Moscow, Russia  |
| Agritech-III-3025 | Ecological value of spring wheat varieties in the Irkutsk region   | A G Abramov, I N Abramova, N N Klimenko  | Irkutsk State Agrarian University named after Ezhevskiy   |
| Agritech-III-3026 | Influence of precipitation variability and temperature conditions on the yield of grain crops in Northern Kazakhstan | Aisulu A Kusainova, Olga V Mezentseva and Zhanbolat A Tusupbekov                               | Omsk state pedagogical University, Omsk, Russia; Karaganda state technical University, Karaganda, Kazakhstan; Omsk state pedagogical University; P. A. Stolypin Omsk state agrarian University, Omsk, Russia  |
| Agritech-III-3027 | Ecological and adaptive potential of amaranth plants in the mountains and foothills                                  | S A Bekuzarova, I Yu Kuznetsov and M V Dzampaeva   | The North Caucasian Research Institute of Mountain and Piedmont Agriculture – the Affiliate of Vladikavkaz Scientific Centre of the Russian Academy of Sciences, Gorsky state agrarian university, Vladikavkaz, Russia; Bashkir state agrarian university, Ufa, Russia                                      |

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| Agritech-III-3028 | Anatomical structure of the stem Alhagi pseudalhagi   | K S Ochirova, V I Dordzhieva, T V Voloshina and Z A Geldieva  | Kalmyk State University named after B.B. Gorodovikova, Elista, Russia  |
| Agritech-III-3030 | Identification of genetic markers of resistance to Potato virus Y and Golden potato cyct nematode in promising potato varieties by means of PCR | T N Chekushkina, P V Fisenko, I V Kim and T R Raifegerst      | Federal State Scientific Institution "Federal Scientific Center of Agricultural Biotechnology of the Far East named after A. K. Chaika"  |
| Agritech-III-3031 | Production typical of cows depending on their linear affiliation  | E A Alekseeva   | Krasnoyarsk state agricultural university, Krasnoyarsk, Russia   |
| Agritech-III-3032 | Building a tool model for the study of the ecosystem "Coronavirus – vector – human - environment"   | T G Sereda, S N Kostarev Y A Kochinov and T V Kochinova       | Perm State Agrarian-Technological University named after Academician D N Prianishnikov, Perm National Research Polytechnic University, Perm Institute of the FPS of Russia, Perm, Russia   |
| Agritech-III-3033 | Technical efficiency of spring rapeseed protection scheme   | L P Baikalova, A V Bobrovsky and A A Kryuchkov                | Federal State Budgetary Educational Institution of Higher Education "Krasnoyarsk State Agrarian University", 660049 Krasnoyarsk City, Mira Avenue., 90, Russia; Krasnoyarsk Research Institute of Agriculture of the Federal research center Krasnoyarsk scientific center SB RAS, 660041 Krasnoyarsk City, 66 Svobodny Ave., Russia |
| Agritech-III-3034 | Toxicological, antibacterial and anti-quorum activity of extracts of medicinal plants Betula spp., Hypericum spp. and Angelica spp.             | K S Inchagova, D B Kosyan, E A Rusakova and G K Duskaev       | Federal Research Centre of Biological Systems and Agrotechnologies RAS   |
| Agritech-III-3035 | Immunomorphological changes in bird staphylococcus  | A V Pavlova, N V Pimenov, A V Konstantinov and S S Bordyugova | Lugansk National Agrarian University, Lugansk, Ukraine; Moscow State Academy of Veterinary Medicine and Biotechnology - MVA by K.I. Skryabin, Moscow, Russia   |

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| Agritech-III-3036 | Treatment and prevention of arachnoses, entomoses and nematodoses in small breeds dogs and cats with a drug based on moxidectin                     | IP Belykh   | All-Russian Scientific Research Institute of Fundamental and Applied Parasitology of Animals and Plants named after K.I. Skryabin -Branch of the Federal State Budget Scientific Institution «Federal Scientific Center -All-Russian Scientific Research Institute of Experimental Veterenari Medicina K.I. Skryabin and Y.R. Kovalenko the RussianAcademy of Sciences», Moscow, Russia. |
| Agritech-III-3037 | Structure peculiarities of Pinus sylvestris L. consortium   | N V Turmukhametova, P V Bedova and I G Vorobeva   | Mari State University, Yoshkar-Ola, Russia   |
| Agritech-III-3038 | Pulmonary vascular smooth muscle contraction in the rat model of metabolic syndrome   | Yu G Birulina, V V Ivanov, E E Buyko, V V Bykov, A V Nosarev, V S Gusakova and S V Gusakova   | Siberian State Medical University, Tomsk, Russia; Innovative Pharmacology Research, LLC (IPHAR), Tomsk, Russia   |
| Agritech-III-3039 | The effect of enrofloxacin on blood values of chickens in experimental salmonellosis  | A A Prisnyi, A A Moiseeva, V N Skvortsov and V V Nevzorova  | Federal Research Center – All-Russian Research Institute of Experimental Veterinary Medicine named after K.I. Scriabin and Ya.R. Kovalenko of the Russian Academy of Sciences, Belgorod, Russia  |
| Agritech-III-3040 | Identification of relationship of polymorphic variants of lactoferrin gene (LTF) in cows with milk production indicators depending on their lineage | Farit F. Zinnatov, Farida F. Zinnatova, Takhir M. Akhmetov, Renat A. Volkov, Damir D. Hairullin, Irek T. Bichantaev, Elvira A. Valieva, Sergey Yu. Smolentsev | Kazan State Academy of Veterinary Medicine by N.E. Bauman, Kazan city, Russia; Tatar Scientific Research Institute of Agriculture, FRC Kazan Scientific Center, Russian Academy of Sciences, Kazan city, Russia; Kazan (Volga region) Federal University, Kazan city, Russia; Mari State University, Yoshkar-Ola city, Russia  |
| Agritech-III-3041 | Tick-born diseases epidemiological monitoring system in the Russian Federation  | V V Belimenko and A M Gulyukin  | Federal State Budget Scientific Institution “Federal Scientific Centre VIEV” (FSC VIEV), Moscow, Russia  |

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| Agritech-III-3042 | Plastics as vehicles of chemical compounds to marine organisms   | N V Dovzhenko, A A Mazur, S P Kukla, V V Slobodskova, L F Kolosova, A A Istomina and V P Chelomin | V.I. Il'ichev Pacific Oceanological Institute, Vladivostok, Russia; Far Eastern State Technical Fisheries University, Vladivostok, Russia   |
| Agritech-III-3043 | Characterization of high virulent strains of equine rhinopneumonitis virus   | S V Alexeyenkova and K P Yurov  | Federal State Budget Institution "Federal Scientific Center VIEV", Moscow, Russia   |
| Agritech-III-3044 | General principles of conducting preclinical toxicology studies of antiparasitic drugs for veterinary use  | Arisov M V , Urazaev D N , Kachanova E O and Pavlova A S  | All-Russian Scientific Research Institute of Fundamental and Applied Parasitology of Animals and Plants (ARSRIP) - branch of the Federal State Budget Scientific Institution «Federal Scientific Center VIEV» |
| Agritech-III-3045 | Dynamics of Paramecium caudatum abundance on various nutrient substrates consisting of Bacillus subtilis strains and their influence on morphophysiological indicators | A L Nikiforov-Nikishin, D L Nikiforov-Nikishin, N I Kochetkov, P Yu Tatarenko                     | Moscow State University of Technologies and Management named after K. G. Razumovsky (the First Cossack University), Moscow  |
| Agritech-III-3046 | Leukocytes differential under effect of ciprofloxacin in experimental colibacillosis in chickens   | A A Moiseeva, A A Prisnyi, A M Gulyukin and T V Stepanova   | Federal Research Center – All-Russian Research Institute of Experimental Veterinary Medicine named after K.I. Scriabin and Ya.R. Kovalenko of the Russian Academy of Sciences                                 |
| Agritech-III-3047 | Nutrition regime in agroschernozems under cultivating field crops in arid conditions   | O A Vlasenko  | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia  |
| Agritech-III-3048 | Evaluating the effectiveness of UV radiation in industrial aquaculture   | L I Bychkova, D L Nikiforov-Nikishin, A K Ponomarev, O G Bugaev                                   | Moscow State University of Technologies and Management named after K. G. Razumovsky (the First Cossack University), Moscow  |
| Agritech-III-3049 | Bacteriophage-mediated sensibilization of mammary gland.   | Egor A Glazunov, Nikolay V Pimenov, Egor A. Pustovit  | Limited liability company Research and production center "Micromir", Moscow state Academy of veterinary medicine and biotechnology named K. I. Skryabin, Moscow, Russia                                       |
| Agritech-III-3050 | Opportunities of Complex Hepatosis Therapy in Cattle   | M P Semenenko, D V Osepchuk, N A Yurina, E V Kuzminova and K A Semenenko                          | Krasnodar Research Center for Animal Husbandry and Veterinary Medicine, Krasnodar, Russia; Kuban state agrarian University  |

named after I. T. Trubilin,  
Krasnodar, Russia

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| Agritech-III-3051 | Changes in the biochemical parameters of blood serum of laying hens by varying the feeding diet | E P Viktorova, R V Kazaryan, M V Lukyanenko, M P Semenenko, A S Borodikhin, E V Kuzminova and E V Rogaleva | Krasnodar Scientific Research Institute of Storage and Processing of Agricultural Products – Branch of the FSBSI “North-Caucasian Federal Scientific Center of Horticulture, Viticulture, Winemaking”, Krasnodar, Russia; Krasnodar Research Center for Animal Husbandry and Veterinary Medicine, Krasnodar, Russia   |
| Agritech-III-3052 | Variety of wild-growing grapes of the Utrish reserve  | I V Gorbunov, E T Initskaya, A A Lukyanov, S S Mikhailovsky, M V Makarkina, M I Pankin and O N Bykhalova   | Anapa Zonal Experimental Station of Viticulture and Wine-making - Branch of "Federal State Budgetary Scientific Institution" North-Caucasus Federal Scientific Center of Horticulture, Viticulture, Wine-making", Anapa, Russia; Federal State Budget Scientific Institution North Caucasus Federal Scientific Center for Horticulture, Viticulture, Winemaking (FSBSI NCFSCHVW), Krasnodar, Russia; Federal State Budgetary Institution “Utrish State Nature Reserve”, Anapa, Russia |
| Agritech-III-3053 | Introduction of biotechnology in animal breeding, as a factor of improving its efficiency       | IV Serdyuchenko , YA Kozub ,TA Khoroshailo and O A Boginskaya  | Kuban State Agrarian University named after I.T. Trubilin, 13 Kalinin street, Krasnodar, Irkutsk State Agricultural University named after A.A. Ezhevsky, Kuban State Agrarian University named after I.T. Trubilin, 13 Kalinin street, Krasnodar, Irkutsk National Research Technical University, 664038, Russian Federation   |
| Agritech-III-3054 | Features of the distribution of the magnetic field in the vicinity of the erythrocyte membrane  | A V Kopyltsov  | Saint Petersburg State University of Aerospace Instrumentation, St. Petersburg, Russia  |

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| Agritech-III-3055 | Strawberry garden: the effect of foliar micronutrients on winter hardiness in the Krasnoyarsk forest-steppe              | N A Mistratova, E A Savinich, A V Samarokova                              | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia   |
| Agritech-III-3056 | Bacterial strains for biological control of Fusarium root rot of soybean in Siberia                                      | S A Rodovikov, A A Churakov, N M Popova, P O Abduraimov and S V Khizhnyak | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia   |
| Agritech-III-3057 | The indicators of interactions between biota's components (with the West Siberian Plain as a case study)                 | S N Gashev, A A Konovalov, M N Kazantseva and N V Sorokina                | Tyumen State University, Tyumen, Russian Federation; Institute of Northern Development Problems SB RAS, Tyumen, Russian Federation   |
| Agritech-III-3058 | Efficiency of weed control in feed crops cultivation by organic technology   | A M Trufanov, A N Voronin, S V Schukin, T P Sabirova and Ya S Romanina    | Yaroslavl State Agricultural Academy, Yaroslavl, Russia; Yaroslavl Research Institute of Animal Husbandry and Feed Production – Branch Federal Research Center "VIK named after V.R. Vilyams", Mikhailovsky village, Russia  |
| Agritech-III-3059 | Assessment of the pigment complex of some woody introducers of the family Rosaceae Juss. in a culture conditions         | I N Turbina and G M Kukurichkin   | Surgut State University, Surgut, Russia  |
| Agritech-III-3060 | Age-related changes in the anti-radical defense system in the tissues of Yesso scallop Mizuhopecten Yessoensis (JAY1857) | A F Zhukovskaya, N V Dovzhenko, V V Slobodskova and V P Chelomin          | V.I. Ilichev Pacific Oceanological Institute, Far Eastern Branch of the Russian Academy of Sciences, Vladivostok, Russia; Far Eastern State Technical Fisheries University, Vladivostok, Russia  |
| Agritech-III-3061 | Evolution of equine influenza virus between epizootics   | K P Yurov and S V Alexeyenkova  | Federal State Budget Institution "Federal Scientific Center VIEV", Moscow, Russia  |
| Agritech-III-3062 | Cytogenetic disorders in apical meristem cells of green spaces of the city depending on the human pressure level         | G G Ladnova, M G Kurochitskaya and N E Chernikov                          | Institute of Natural Sciences and Biotechnology, Federal State Budgetary Educational Institution of Higher Education «Orel State University named after I.S. Turgenev», Orel, Russia; Institute of Medicine, Federal State Budgetary Educational Institution of Higher Education «Orel State |

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| Agritech-III-3063 | Indirect differentiation of mouse embryonic stem cells into macrophage-like cells   | I P Savchenkova, E A Savchenkova, Yu A Osipova and K P Yurov                           | Federal State Budget Scientific Institution "Federal Scientific Centre VIEV" (FSC VIEV), Moscow, Russia   |
| Agritech-III-3064 | Components of the biotope soil and yield of barley  | N P Bakaeva, O A Chugunova, O L Saltykova, M S Prikazchikov                            | Samara State Agrarian University, Kinel, Russia   |
| Agritech-III-3065 | Antioxidant activity of the peroxidase system in cell nuclei during germination of wheat seedlings  | Gulnar H Vafina, Ruslan S Ivanov   | Ufa Institute of Biology, Ufa Research Centre, Russian Academy of Sciences, Russia  |
| Agritech-III-3066 | Influence of mineral-protein feed additive on the characteristics of the bone tissue of the vertebrae of cattle in alimentary osteodystrophy                    | A V Savinkov, E I Lapteva, K A Semenenko, M P Semenenko, V V Ermakov and E V Kuzminova | Samara State Agrarian University, Kinel, Russia; Institute of Experimental Medicine and Biotechnology of Samara State Medical University of Ministry of Health of the Russian Federation, Samara, Russia; Krasnodar Research Center for Animal Husbandry and Veterinary Medicine, Krasnodar, Russia |
| Agritech-III-3067 | Productivity and grain quality of a new variety of spring wheat Stolypinka depending on the rates of mineral fertilizers in the conditions of Pre-Baikal region | Sultanov Fanil S., Yudin Alexey A., Gabdrakhimov Oleg B.                               | Irkutsk Scientific Research Institute of Agriculture  |
| Agritech-III-3068 | Physiological characteristics of cattle of different ages   | S Yu Zavalishina   | Russian State Social University, Moscow, Russia   |
| Agritech-III-3069 | The development of technological parameters of seed sprouting before extrusion  | I A Chaplygina, V V Matyushev, E V Shanina, A V Semenov and Zh N Shmeleva              | FSBEI HE Krasnoyarsk state agrarian university  |

## Section 4. Environmental Engineering and Management, Mining and Soil Treatment Technology

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| Agritech-III-4001 | Influence of microbiological preparations on spring wheat yield   | I Ivanova, S Ilina and D Dementiev                             | Federal Agricultural Research Center of the North-East named N. V. Rudnitskogo, Kirov, Russia  |
| Agritech-III-4002 | The influence of chemical soils composition on the thermodynamic probability of the air nitrogen fixation                     | A K Podshivalova   | Irkutsk State Agricultural University named after A.A. Ezhevsky, Molodezhny, Irkutsk district, Irkutsk region, Russia  |
| Agritech-III-4003 | Theoretical aspects of the working process of a pressextruder with a variable step auger for preparation of concentrated feed | Vladimir Yu Frolov, Elena A Kotelevskaya and Marina I Tumanova | Kuban State Agrarian University named after I.T.Trubilin, Krasnodar, Russia  |
| Agritech-III-4004 | Influence of biocidal preparations on the intestinal microflora of broiler chickens   | I P Saleeva, V S Lukashenko, D A Burova and O V Myasnikova     | FSC "ARRTPI" RAS, Sergiev Posad; FSBEI HE "MSAVMB named after K. I. Skryabin", Moscow, Russia  |
| Agritech-III-4005 | The effect of organic fertilizers on the cellulolytic activity of the soil and rooting of cuttings of <i>Ribes rubrum</i> L.  | V L Bopp   | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia   |
| Agritech-III-4006 | Establishing a state management system for the environment in the field of agriculture to suit the reality of Vietnam         | V M Pham   | People's Police University, 36, Nguyen Huu Tho str., Ho Chi Minh city, Vietnam   |
| Agritech-III-4007 | Study of features of differentiated soil treatment by machine-tractor units on agricultural landscapes of slope lands         | S A Vasilyev, A M Lopotkin, A V Vasilyeva and E A Vasilieva    | Nizhny Novgorod state engineering and economic university, Knyaginino, Nizhny Novgorod Region; Cheboksarskiy technical school of construction and urban development, Cheboksary; Chuvash State University named after I.N. Ulyanov, Cheboksary, Russian Federation |



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| Agritech-III-4008 | Renewable sources of energy in distributed power generation   | Georgij I Kol'nichegko, Yakov V Tarlakov, Alexander V Sirotov             | Bauman Moscow State Technical University, Moscow, Russia   |
| Agritech-III-4009 | Optimization of the conditions of rhizogenesis and assessment of the enzymatic activity of the substrates used for rooting of cuttings of berry shrubs in Siberia | V L Bopp, N V Fomina  | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia   |
| Agritech-III-4010 | The comparative description of the mineral nitrogen-containing fertilizers  | A K Podshivalova  | Irkutsk State Agrarian University named after A.A. Ezhevsky, Molodezhny settlement, Irkutsk distrikt, Irkutsk region, Russia |
| Agritech-III-4011 | Cycles of living and bio-inert systems in soil formation  | Valery I Tskhovrebov, Vera I Faizova, Vera I Lysenko and Andrey I Novikov | Stavropol State Agrarian University, Stavropol   |
| Agritech-III-4012 | Regional aspects of atmospheric air   | A.A. Bayanova   | Irkutsk State Agrarian University named after A.A. Yezhevsky   |
| Agritech-III-4013 | Meteorological conditions, mineral fertilizers and lime aftereffect influence on the barley grain yield and quality in the Irkutsk region                         | E N Dijachenko and A T Shevelev   | Irkutsk Research Institute of Agriculture  |
| Agritech-III-4014 | Variation of gluten amount in wheat grain under the influence of weather conditions   | V V Keler and O V Martynova   | Krasnoyarsk State Agrarian University, Krasnoyarsk   |
| Agritech-III-4015 | Increasing the anti-friction properties of carbon-containing materials at high temperatures   | M N Roshchin  | Mechanical Engineering Research Institute of the Russian Academy of Sciences, Moscow, Russia                                 |

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| Agritech-III-4016 | Accumulation of phytomass and determination of the carbon potential of modal fir stands in the conditions of the Krasnoyarsk-Kansk-Podopodtaezhno-forest-steppe region | V A Kalachev, A A Vais, E A Anuev and D O Martynova                       | Siberian state university of science and technologies of M.F. Reshetnev, Russia, Krasnoyarsk   |
| Agritech-III-4017 | Causes and consequences of flooding of urban agglomerations on the example of Perm   | Yu A Kilin and I I Minkevich  | Perm State National Research University, Perm, Russia  |
| Agritech-III-4018 | Siberian cedar in subordinate crops  | R N Matveeva, N P Bratilova, O F Butorova, E V Kolosovsky and A I Svalova | Reshetnev Siberian State University of Science and Technology, Krasnoyarsk, Russia   |
| Agritech-III-4019 | Predicting the reliability of plain bearings with zirconium ceramic bushings   | V V Alisin  | Blagonravov Institute of Mechanical Engineering, Russian Academy of Sciences, Moscow, Russia   |
| Agritech-III-4020 | Comparative assessment of the overseas territories of France according to the criteria of provision of tourist resources   | A A Ivanova, A E Astashin, N I Astashina and E A Vasilieva                | Nizhny Novgorod state engineering and economic university, Knyaginino; Kozma Minin Nizhny Novgorod State Pedagogical University (Minin University), Nizhny Novgorod Region, Russian Federation |
| Agritech-III-4021 | Dynamics of particle size formation in wheat grain in dependence on pesticides and nutrition background  | V V Keler and O V Martynova and N V Shram                                 | Krasnoyarsk State Agrarian University, Krasnoyarsk   |
| Agritech-III-4022 | The modification of physical and chemical properties of dark gray forest-steppe soils under the influence of water processes   | N V Dolgopolova, E A Batrachenko  | Kursk state agricultural Academy; Kursk state University, Kursk, Russia  |
| Agritech-III-4023 | Increasing the operating life of parts of weaving equipment  | M N Roshchin  | Mechanical Engineering Research Institute of the Russian Academy of Sciences, Moscow, Russia   |

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| Agritech-III-4024 | Ecopathology of the Lipetsk region through environmental factors  | Yury E Antonenkov and Yury Yu Shurshukov                                | Voronezh State Medical University named after N.N. Burdenko, Health Department of the Lipetsk Region Administration                                    |
| Agritech-III-4025 | The impact of environmental problems on biotechnology associated with humoral predictors of the formation of chronic abnormal conditions                | S Kh Dombayan, I V Panova, A A Afonin and S B Berezanskaya              | Rostov State Medical University  |
| Agritech-III-4026 | Determination of the optimal incline angle of the incision of the cutting apparatus of the root crop chopper  | SN Shukhanov, NI Ovchinnikova, AV Kosareva and AC Dorzhiev              | Irkutsk State Agrarian University named after A.A. Ezhevsky  |
| Agritech-III-4027 | Development of a methodology for assessing the parameters of the state of crops and soil environment for crops according to remote sensing of the Earth | I M Mikhailenko and V N Timoshin  | Agrophysical Research Institute, St. Petersburg, Russia  |
| Agritech-III-4028 | Network interaction of educational institutions: the practice of using in extended environmental education and upbringing                               | T I Kondaurova, N E Fetisova, A V Vedeneev, A V Zverev and L A Reut     | Volgograd State Socio-Pedagogical University, Volgograd, Russian Federation  |
| Agritech-III-4029 | Regional differences determination in the Irkutsk region agricultural land use  | D R Chernigova  | Irkutsk State Agricultural University named after A.A. Ezhevsky, Molodezhny, Irkutsk district, Irkutsk region, Russia                                  |
| Agritech-III-4030 | Regional aspects of state land monitoring   | A A Bayanova  | Irkutsk State Agrarian University named after A.A. Yezhevsky, Molodezhnyj village, Irkutsk region, 664038, Russia                                      |
| Agritech-III-4031 | Problems of nature protection in Moscow   | K V Zakharov, A A Terehova, V N Kozlov, E Y Bobkova and I A Grigoryants | Moscow Region State University, city of Mytishi, Russian Federation; K.G. Razumovsky Moscow State University of technologies and management (the First |

Cossack University),  
Moscow, Russian  
Federation

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| Agritech-III-4032 | Techno-sphere safety of non-waste production  | A V Gurjanov, A V Shukalov, I O Zharinov                     | Stock Company «Experimental Design Bureau «Electroavtomatika» named after P A Yefimov, Saint Petersburg, ITMO University, Saint Petersburg, Russia  |
| Agritech-III-4033 | Simulation diagnostics of power train mechanical drives   | N I Ovchinnikova, V V Bonnet and A V Kosareva                | Irkutsk State Agricultural University named after A.A. Ezhevsky   |
| Agritech-III-4034 | Substantiation of the ecological method application for disinfection and biostimulation of spring wheat seeds in the Krasnoyarsk territory forest-steppe zone | N S Kozulina, A V Vasilenko, A A Vasilenko and Zh N Shmeleva | FSBEI HE Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia   |
| Agritech-III-4035 | The technology of processing and recycling organic waste  | V M Nikolaeva, A I Borisov                                   | Federal State Autonomous Educational Institution of Higher Education "M. K. Ammosov North-Eastern Federal University"   |
| Agritech-III-4036 | Pesticides effect on the quantity and quality of gluten in spring wheat   | V V Keler, O V Martynova and T G Ovchinnikova                | Krasnoyarsk State Agrarian University, Krasnoyarsk  |
| Agritech-III-4037 | Dependence of the rutin content in buckwheat plants on the sowing method, variety and seeding rate  | V I Nikitina, V V Vagner and O V Martynova                   | Krasnoyarsk State Agrarian University, Krasnoyarsk City, Russia; Experimental production farm «Kuraginskoe», branch of the Federal state budgetary scientific institution «Federal research center Krasnoyarsk scientific center of the Siberian branch of the Russian Academy of Sciences», Krasnoyarsk territory, Kuraginskoe |

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| Agritech-III-4038 | The Characteristics of the Dzhankoy Region Rivers and Dzhankoy Town Okrug of the Republic of the Crimea         | Z V Timchenko, V A Tabunshchik, M G Zelentsova                           | V.I. Vernadsky Crimean Federal University, Simferopol; A.O. Kovalevsky Institute of Biology of the Southern Seas of RAS (IBSS), Sevastopol   |
| Agritech-III-4039 | Efficiency of liquid bio-organic fertilizer on potatoes   | Inga Yu Ivanova and Svetlana P Konstantinova                             | Federal Agricultural Research Center of the North-East named N. V. Rudnitskogo, Kirov, Russia  |
| Agritech-III-4040 | Efficiency of application of combing method when harvesting grain crops   | Elena B Drepa, Anna S Golub , Inna A Donets Irina A Walters              | Stavropol State Agrarian Universit, Stavropoly, Russia   |
| Agritech-III-4041 | Recommendations for improving the operation efficiency of electric pumping units of mine drainage installations | N P Ovchinnikov  | Nort-Eastern Federal University  |
| Agritech-III-4042 | Environmental safety of galvanic cyber-production   | A V Gurjanov, I O Zharinov , O O Zharinov                                | Stock Company «Experimental Design Bureau «Electroavtomatika» named after P A Yefimov, Saint Petersburg; ITMO University, Saint Petersburg; Saint Petersburg State University of Aerospace Instrumentation, Saint Petersburg, Russia |
| Agritech-III-4043 | A thermodynamic study of microelement influence on the nitrogen and oxygen activity in soil                     | A K Podshivalova, E S Gogol and N V Butorina                             | Irkutsk State Agrarian University named after A. A. Ezhevsky, Molodezhny settlement, Irkutsk district, Irkutsk region, Russia  |
| Agritech-III-4044 | The load allocation along the loader axles depending on operating conditions                                    | Alexander P Mashtakov and Rustam R Khakimzyanov                          | Russian University Of Transport (MIIT), Moscow, Russia   |
| Agritech-III-4045 | Tillage influence of on the qualitative composition of soil structure   | V K Ivchenko, V A Polosina, E V Eremina, M V Lugantseva and O I Ilchenko | Krasnoyarsk State Agrarian University; Siberian Federal University, Krasnoyarsk; Institute of Continuous Education in Forestry, Divnogorsk, Russia   |

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| Agritech-III-4046 | Influence of tillage methods on crop productivity in the second rotation of crop rotations   | Vitaliy G Antonov, Andrey A Fadeev and I Yu Ivanova                              | Federal Agricultural Research Center of the North-East named N. V. Rudnitskogo, Kirov, Russia                               |
| Agritech-III-4047 | Green cyber-production of semiconductor electronic   | A V Shukalov, I O Zharinov, O O Zharinov   | ITMO University, Saint Petersburg; Saint Petersburg State University of Aerospace Instrumentation, Saint Petersburg, Russia |
| Agritech-III-4048 | Some parameters of the physical and water-physical properties of agrochernozems under cultivation of field crops in dry conditions                               | O A Vlasenko, A N Khalipsky and D N Stupnitsky                                   | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia  |
| Agritech-III-4049 | Device for maintaining the nominal operating modes of the section pump of a mine district drainage system in conditions of intensive silting of water reservoirs | N P Ovchinnikov  | Nort-Eastern Federal University   |
| Agritech-III-4050 | Intensification methods effect on stock carbon resources of spring rape  | O A Vlasenko, N L Kurachenko, O A Ulyanova, E Yu Kazanova and E S Parchenko      | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia  |
| Agritech-III-4051 | Opportunities for assessing the risk of an outbreak of Siberian silkworm ( <i>Dendrolimus superans sibiricus</i> Tschetv.) in taiga forests                      | S M Sul'tson, P V Mikhaylov, S S Kulakov and A A Goroshko                        | 1Laboratory of Forest Health, Reshetnev Siberian State University of Science and Technology                                 |
| Agritech-III-4052 | Peculiarities of forming the weed component of agrophytocenosis of corn hybrids depending on the methods of basic soil treatment in the temperate moisture area  | O I Vlasova, A D Smakuev, V M Perederieva, I A Volters, E B Drepa , Yu A Bezgina | Stavropol State Agrarian University   |

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| Agritech-III-4053 | The effect of eutrophication on human health on the example of the Gulf of Taganrog of the Sea of Azov    | A Yu Zhidkova, V V Podberesnij, R V Zarubina and O A Kononova          | Rostov State University of Economics, Bolshaya Sadovaya st., 69, Rostov-on-Don 344002, Russia   |
| Agritech-III-4054 | Total evaporation from the surface of river catchments in Western Siberia                                 | Zh A Tusupbekov, N L Ryapolova and V S Nadochiy                        | Omsk State Agrarian University named after P.A. Stolypin, Omsk, Russia  |
| Agritech-III-4055 | Technology of waste coal processing used for fuel production  | V I Murko, M A Volkov, M P Baranova, M V Temlyantsev and V V Chaplygin | Sibniugleobogaschenie LLC, branch of Prokopyevsk, Russia; FSAEI HE «Siberian Federal University», FSBEI HE «KrasSAU», Krasnoyarsk, Russia; FSBEI HE «Siberian state industrial university», Novokuznetsk, Russia. |
| Agritech-III-4056 | Problems arising in recultivation activities  | Elena A Ponomarenko and Maria I Bezotechestvo                          | Irkutsk State Agrarian University named after AA Ezhevsky, Irkutsk, Russia  |
| Agritech-III-4057 | Solid industrial waste management cyber-administration  | A V Gurjanov, A V Shukalov, I O Zharinov                               | Stock Company «Experimental Design Bureau «Electroavtomatika» named after P A Yefimov, Saint Petersburg; ITMO University, Saint Petersburg, Russia  |
| Agritech-III-4058 | Measures to achieve technological indicators of wastewater quality in the pulp and paper industry         | A V Epifanov and I V Antonov   | Saint Petersburg State University of Aerospace Instrumentation, Saint Petersburg State University of Industrial Technology and Design, St.Petersburg, Russia  |
| Agritech-III-4059 | Prospects for biological methods to combat pests of oak trees   | M A Kukotenko and A V Nikanova   | Murmansk Arctic state University, Apatites, Russia  |
| Agritech-III-4060 | The study of indicators for environmental protection in Russia during the extraction of natural resources | I I Rashoyan   | Togliatti State University, Togliatti, Samara region, Russia  |

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| Agritech-III-4061 | Study of the impact of forest fires on the environment  | Igor V Kukhar, Sergey N Orlovsky and Svetlana N Martynovskaia                  | Reshetnev Siberian State University of science and technology, Krasnoyarsk, Russia; Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia |
| Agritech-III-4062 | The level of chemical elements in red and white clover flowers  | R V Endoveceky, K.A. Sidorova and S.A. Pashayan                                | State Agrarian University of the Northern Trans-Urals, Tyumen  |
| Agritech-III-4063 | Dielectric losses of mechanically activated grain crops during heat treatment   | M Y Buzunova and V V Bonnet  | Irkutsk State Agricultural University named after A.A. Ezhevsky  |
| Agritech-III-4064 | The increase of the potential agricultural landscapes fertility through the use of non-traditional organic fertilizers                                | V N Romanov, N S Kozulina and Zh N Shmeleva                                    | Krasnoyarsk scientific-research institute of agriculture ; Krasnoyarsk state agrarian university, Krasnoyarsk, Russian Federation              |
| Agritech-III-4065 | Consequences of using seed fungicides on daughter seeds of barley   | E P Puchkova, V K Purlaur, V K Ivchenko and N A Mashkovskaya                   | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia   |
| Agritech-III-4066 | The assess of the possibility of rain floods forecasting on the rivers of Western Tyva  | Vinogradova Lyudmila Ivanovna, Ivanova Olga Igorevna, Agapova Tamara Vadimovna | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russian Federation   |
| Agritech-III-4067 | Green logistics as an element of sustainable development  | S M Kurbatova, L Yu Aisner and V Yu Mazurov                                    | Krasnoyarsk State Agrarian University  |
| Agritech-III-4068 | Algorithm for predicting of the transition of a key point of geodynamic control to the risk zone  | N V Dorofeev, R V Romanov, A V Greceneva and E S Pankina                       | Vladimir State University, Russian Federation  |
| Agritech-III-4069 | Incidence of microorganisms antagonistic to plant pathogenic fungi <i>Bipolaris sorokiniana</i> and <i>Fusarium</i> sp. in different soil communities | E P Puchkova and V K Ivchenko  | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia   |



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| Agritech-III-4070 | The experience of laboratory flotation equipment for treating wastes from dairy   | A M Nepogodin, V G Isakov, E V Grakhova and M Y Dyagelev                             | Kalashnikov Izhevsk state technical University   |
| Agritech-III-4071 | Optimization of organic fertilizers production technology for fractional separation of biodegradable organic waste  | E A Gribut, M A Kulikova, D V Kasharin   | Federal State Budget Educational Institution of Higher Education   |
| Agritech-III-4072 | Biological features and productivity of soybean varieties grown in the unstable moisture zone on leached chernozem  | Olga G Shabalda, Inna A Donets, Anna S Golub, Olga V Mukhina Nina S Chukhlebova      | Stavropol State Agrarian University, Stavropol, Russia   |
| Agritech-III-4073 | Influence of different soil tillage methods on the development of root rot in spring wheat  | V K Ivchenko, V A Polosina and E P Puchkova  | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia   |
| Agritech-III-4074 | Actual situation of dealing with environmental law violations and building of a legal system in the state management of environment in the agricultural sector in Vietnam | T H Dang, X D Chu  | People's Police Academy, Co Nhue 2, Bac Tu Liem, Hanoi., Vietnam   |
| Agritech-III-4075 | Urban ecology as a means of ensuring the ecological balance of modern cities  | S M Kurbatova, L Yu Aisner and A G Volkova   | Krasnoyarsk State Agrarian University  |
| Agritech-III-4076 | Renewable source of full protein for animal feeding   | Tatiana Marinchenko  | Rosinformagrotekh FSBSI  |
| Agritech-III-4077 | Problems of environmental protection in the aspect of ecological tourism  | E I Farafontova, E S Esshcheblyakov, S M Koorbatova, D V Rahinsloy and A A Kooghleva | Siberian State University of Science and Technology named after academician M.F. Reshetneva, Krasnoyarsk State Agrarian University, Krasnoyarsk State Agrarian University, Krasnoyarsk State Medical University named after Professor V.F. Voyno-Yasenetsky, Krasnoyarsk |

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| Agritech-III-4078 | Classification of antibiotics contained in urban wastewater   | A A Abramova, V G Isakov, A M Nepogodin, E V Grakhova and M Y Dyagelev    | Kalashnikov Izhevsk state technical University  |
| Agritech-III-4079 | Problem of violating environmental laws in agriculture and state management orientation in Vietnam      | Nguyen Van Lai  | People's Police University, Ho Chi Minh city, Vietnam   |
| Agritech-III-4080 | Modern unmanned aerial technologies for the development of agribusiness and precision farming           | I V Kovalev and N A Testoyedov  | "Siberian Federal University, Krasnoyarsk State Agrarian University, China Aviation Industry General Aircraft Zhejiang Institute Co., Ltd, China, Reshetnev Siberian State University of Science and Technology, JSC "Academician M F Reshetnev Information satellite systems", Zheleznogorsk, Krasnoyarsk region, Russia |
| Agritech-III-4081 | Algorithms for using the database of OMI and OMPS spectrometers for estimating sulfur dioxide emissions | D V Zuev, V F Garifullin, S A Temerbaev, D S Feoktistov and A I Zuevskaya | Siberian Federal University, Krasnoyarsk, Russia  |

## Section 5. Chemical, Ecological, Oil and Gas Engineering

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| Agritech-III-5001 | Numerical determination of the contours of the area watering from the fluid source             | E A Mikishanina                        | Chuvash State University, Cheboksary, Russia |
| Agritech-III-5002 | Research of coefficient of aerodynamic resistance of a separation nozzle of industrial coolers | E V Boev, V G Afanasenko and N I Boeva | Ufa State Petroleum Technological University |

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| Agritech-III-5003 | Determination the capacity of low volume mixers for processing liquid environment   | E V Boev, V G Afanassenko and N I Boeva   | Ufa State Petroleum Technological University  |
| Agritech-III-5004 | Productive moisture stock assessment in the apple orchards soils of forest steppe north   | V L Zakharov, N V Morgacheva and T.Yu.Petrisheva  | Bunin Yelets State University   |
| Agritech-III-5005 | Research on the influence factors of technogenic environmental pollution on population health based on statistical panel data analysis      | Sergey N Trostyanskiy, Semen A Kurolap, Igor O Baklanov, Oleg V Klepikov, Oleg Ja Kravets | Russian Air Force Military Educational and Scientific Center "Air Force Academy named after Professor N.E Zhukovsky and Y.A. Gagarin", Voronezh State University, Voronezh State Technical University, Voronezh, Russia |
| Agritech-III-5006 | Aspects of Ecological Engineering as an Innovative Technology for Architecture and Construction Sphere Development                          | Elena A Sukhinina, Oksana N Kiseleva, Sergey F Dyadchenko                                 | Saratov State Technical University after Yuri Gagarin   |
| Agritech-III-5007 | Interaction analysis of the electrotechnological system "emitter-material" in the process of heating and drying of food plant raw materials | V D Ochirov, I V Altukhov, S M Bykova and M A Blokhniin                                   | Irkutsk State Agrarian University named after A.A. Ezhevsky, p. Molodezhny, Irkutsk region, Irkutsk district, 664038, Russia  |
| Agritech-III-5008 | The improvement in technology of rectification column calculation   | A A Popov, A K Ovsyankin, M Gritsenko, T V Doronina and E D Motsenko                      | Reshetnev Siberian State University of Science and Technology   |
| Agritech-III-5009 | Characteristic features of molybdenum, copper, tungsten and rhenium accumulation in the environment   | V V Ermakov, V A Safonov, Yu V Kovalsky and V I Vorobyov                                  | Vernadsky Institute of Geochemistry and Analytical Chemistry of Russian Academy of Sciences, Moscow, Russia; Astrakhan State University, Astrakhan, Russia  |
| Agritech-III-5010 | Study of influence of agro-industrial production of Perm region on honey condition  | O V Kochetova, N A Tatarnikova, S A Ermolina, Ivanova and T G Sereda                      | Perm Institute of the FPS of Russia, Perm; Perm State Agrarian-Technological University named after academician D N Prianishnikov, Perm; Vyatka state agricultural Academy,   |

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| Agritech-III-5011 | Parameters-adapters of wheeled tractors   | N I Selivanov , V V Averyanov, V N Zaprudsky, A V Kuznetsov and Yu N Makeeva             | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia  |
| Agritech-III-5012 | Respiratory moisture loss in neonatal calves and their association with airway inflammation | A E Chernitskiy and V A Safonov  | All-Russian Veterinary Research Institute of Pathology, Pharmacology, and Therapy, Voronezh, Russian Federation; Voronezh State Agrarian University named after Emperor Peter the Great, Voronezh, Russian Federation |
| Agritech-III-5013 | Kinematic and force analysis of a bucket frontlift  | Rustam R Khakimzyanov and Alexander P Mashtakov  | Russian University Of Transport (MIIT), Moscow, Russia  |
| Agritech-III-5014 | The use of ozone-air mixture for the disinfection of milk catheters                         | A V Borkholeeva, A B Budaeva, L A Ochirova, T L Khundanova and S G Dolganova             | FSBEI of Higher Education A A Ezhevskii Irkutsk State Agrarian University, Irkutsk, Russia  |
| Agritech-III-5015 | Revisiting the interrelation between nitrate and microbiological pollution of spring water  | A E Vasyukov, S N Nikulina, V Grishakova, I L Shin and T A Chudakova                     | Kaluga State University named after K.E. Tsiolkovski, Kaluga, Russia; Kaluga branch of Moscow State Technical University named after N.E. Bauman, Kaluga, Russia  |
| Agritech-III-5016 | Use of genetic resources in white straw and cereal crops breeding in the monsoon climate    | A G Klykov, G A Murugova, P M Bogdan, I V Konovalova, O A Timoshinova and N A Kryuchkova | FSBSI "FSC of Agricultural Biotechnology of the Far East named after A. K. Chaika", Ussuriysk, , Russia   |
| Agritech-III-5017 | Environmental and chemical characteristics of small river Filinovka, Zeya-Bureya plain      | A P Pakusina, T P Platonova and Zh A Demidenok   | Far Eastern State Agrarian University, Blagoveshchensk, Russia  |
| Agritech-III-5018 | Generalized indicator of adaptation of mobile units to zonal conditions                     | N I Selivanov , V V Averyanov, V N Zaprudsky, N V Kuzmin and Yu N Makeeva                | Krasnoyarsk State Agrarian University, Achinsk Branch "Krasnoyarsk State Agrarian University", Achinsk, Russia  |

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| Agritech-III-5019 | Fire safety cyber-production  | A V Gurjanov, I O Zharinov ,<br>O O Zharinov  | Stock Company<br>«Experimental Design<br>Bureau «Electroavtomatika»<br>named after P A Yefimov,<br>Saint Petersburg; ITMO<br>University, Saint Petersburg;<br>Saint Petersburg State<br>University of Aerospace<br>Instrumentation, Saint<br>Petersburg, Russia |
| Agritech-III-5020 | Assessment of the impact of indicator air pollutants in Atyrau city on public health          | M S Yessenamanova, A A Tekeyeva, Zh S Yessenamanova, A E Tlepbergenova  | Kh.Dosmukhamedov Atyrau State University  |
| Agritech-III-5021 | Assessment of coal dust particles adhesion under the action of special reagents               | Elena V Shanina, Ekaterina V Shanina, V V Matyushev, I A Chaplygina and N S Kulakova  | FSBEI of HE Khakass State University named after N.F. Katanov, Abakan; FSBEI of HE Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia   |
| Agritech-III-5022 | To the question of creating a device for cleaning and sorting of grain                        | S. S. Yampilov Ph. D., prof., e-mail yampilovss@mail.ru, TS. TS. Tsydypov Ph. D., Assoc., Zh. b. Tsybenov Ph. D., Assoc., T. V. Eremina Ph. D., prof. | East Siberian state University of technology and management Ulan-Ude, Russia  |
| Agritech-III-5023 | Aquaponic plant with using the soil for waste water of fish-breeding complexes                | A K Ponomarev, I A Glebova, O V Gorbunov, L L Brezhnev  | Moscow State University of Technologies and Management named after K. G. Razumovsky (the First Cossack University), Moscow  |
| Agritech-III-5024 | Development of a rational environmental management system and increasing environmental safety | A V Kuchumov, R V Fattakhov, O V Pivovarova, S A Pobyyaev, A A Gibadullin and D V Troshin   | Smolensk agricultural Academy, Smolensk, Russia; Financial University under the Government of the Russian Federation, Moscow, Russia; State University of Management, Moscow, Russia  |
| Agritech-III-5025 | Gas-diesel engine exhaust gas recirculation   | O P Lopatin   | Vyatka State Agricultural Academy, Kirov, Russia  |
| Agritech-III-5026 | Assessment of the level of development of electric transport                                  | D E Morkovkin, P V StroeV, A A Gibadullin, D V Troshin, S V Makar and M I Sadriddinov   | Financial University under the Government of the Russian Federation, Moscow, Russia; State University of Management, Moscow, Russia; Tajik State Finance and Economics University, Dushanbe, Republic of Tajikistan   |

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| Agritech-III-5027 | On the concept and types of harm to the environment   | E.S. Shcheblyakov, E.L. Farafontova, S. M. Kurbatova, D.V. Rahinsky, A.A. Kuzhleva                      | Krasnoyarsk state agricultural university, Reshetnev Siberian State University of Science and Technology, Krasnoyarsk state agricultural university, Krasnoyarsk State Medical University named after Professor V.F. Vojno-Yasenetskiy, Krasnoyarsk state agricultural university, Krasnoyarsk, Russia |
| Agritech-III-5028 | Identification of the mechanism of SDRC rubber synthesis process  | V V Bronskaya, G A Aminova, G V Manuyko, T V Ignashina, D V Bashkirov, O S Kharitonova and D S Balzamor | Kazan National Research Technological University, Kazan State Power Engineering University, Kazan, Russian Federation  |
| Agritech-III-5029 | Modern concepts for organization of labor protection at oil and gas processing enterprises  | E S Egorova, N V Vadullina, A O Salimov, Yu N Savicheva and A A Gilyazov                                | Ufa state petroleum technological university, Ufa, Russian Federation  |
| Agritech-III-5030 | Effective indicators of diesel powered by natural gas and alcohol-fuel emulsions  | V A Likhanov and O P Lopatin  | Vyatka State Agricultural Academy, Kirov, Russia   |
| Agritech-III-5031 | The prospect of using <i>Bacillus pumilus</i> proteinase for processing raw meat  | A Z Karimov, Y Y Ponomarev, E Sh Yunusov, D V Khrundin and G O Egekova                                  | Kazan National Research Technological University, Kazan, Russia  |
| Agritech-III-5032 | Integrative features of biologically active substances and vermicompost in action on the anatomical features of decorative cultures | Dogadina M.A., Botuz N.I.   | Federal State Budgetary Educational Establishment of Higher Education "Orel State Agrarian University named after N.V. Parakhin",  |
| Agritech-III-5033 | Kinetic scheme of the SDRC rubber synthesis process   | V V Bronskaya, G A Aminova, G V Manuyko, T V Ignashina, D V Bashkirov, O S Kharitonova and D S Balzamor | Kazan National Research Technological University, Kazan State Power Engineering University, Kazan, Russian Federation  |
| Agritech-III-5034 | Regulation of agrophysical indicators of degraded sod-podzolic soil fertility using a system of fertilizers and predecessors        | V A Shevchenko, A M Soloviev, G I Bondareva and N P Popova  | All-Russia Research Institute of Hydraulic Engineering and Land Reclamation of A.N.Kostyakov, Moscow, Russia   |

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| Agritech-III-5035 | Simulation of sorption extraction of trichloroethylene under dynamic conditions | A K Gorelkina, T A Krasnova, I V Timoshchuk, N S Golubeva, T A Utrobina and T K Dudinskaya | Kemerovo State University   |
| Agritech-III-5036 | Development of tractor gas-diesel modifications                                 | O P Lopatin  | Vyatka State Agricultural Academy, Kirov, Russia  |
| Agritech-III-5037 | The Industry 4.0 technological safety   | A V Gurjanov, A V Shukalov, I O Zharinov   | Stock Company «Experimental Design Bureau «Electroavtomatika» named after P A Yefimov, Saint Petersburg; ITMO University, Saint Petersburg, Russia  |
| Agritech-III-5038 | The study of soil mechanics and intensification of agriculture                  | G E Kokieva, S A Voinash, V A Sokolova, V A Gorbachev, Arthur A Fedyaev and A A Fedyaev    | Federal State Budgetary Educational Institution of Higher Education "Yakutsk State Agricultural Academy", Yakutsk, Russian Federation, Federal State Budgetary Educational Institution of Higher Education "Novosibirsk State Agrarian University", Novosibirsk, Russian Federation, Federal State Budgetary Educational Institution of Higher Education "Saint Petersburg State Forest Technical University named after S.M. Kirov", St. Petersburg, Russian Federation, Federal State Budgetary Educational Institution of Higher Education "Bratsk State University", Bratsk, Russian Federation |
| Agritech-III-5039 | Methods for evaluating the performance of industrial cooling tower sprinklers   | E V Boev and N I Boeva   | Ufa State Petroleum Technological University  |
| Agritech-III-5040 | Analysis of the structural determination nickel complexes                       | Bisergaeva Radima Andyeвна, Sirieva Yaha Nazirbecovna                                      | Faculty of Biology and Chemistry Chechen State University   |
| Agritech-III-5041 | Prospects for photostimulation of nisin biosynthesis                            | A A Nogina, A V Diachkova, S L Tikhonov and N V Tikhonova                                  | Ural state economic University, Ural Federal University named after the First President of Russia B   |

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| Agritech-III-5042 | Extraction of grains from ears of grain crops by grinding when opposite moving the conveyor and deck          | VA Nikolaev, SA Voinash, KY Maksimovich, RR Galimov, VA Sokolova and SN Dolmatov                     | Yaroslavl State Technical University, Yaroslavl, Russian Federation, Rubtsovsk Industrial Institute (branch) Polzunov Altai State Technical University, Rubtsovsk, Russian Federation, Novosibirsk State Agrarian University, Novosibirsk, Russian Federation, St. Petersburg State Forestry University named after S.M. Kirov, Saint-Petersburg, Russian Federation, Reshetnev Siberian State University of Science and Technology, Krasnoyarsk, Russian Federation  |
| Agritech-III-5043 | Research of absorbing properties of carbon sorbents for purification of aquatic environment from oil products | I L Rogovskii, S M Kalivoshko, S A Voinash, E E Korshunova, V A Sokolova, I A Obukhova and V D Kebko | National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine Federal State Budgetary Educational Institution of Higher Education "Novosibirsk State Agrarian University", Novosibirsk, Russian Federation Federal State Budgetary Educational Institution of Higher Education "Altai State University", Barnaul, Russian Federation Federal State Budgetary Educational Institution of Higher Education "St. Petersburg State Forestry University named after S.M. Kirov", Saint-Petersburg, Russian Federation |
| Agritech-III-5044 | Alcohol biofuels for internal combustion engine   | V A Likhanov and O P Lopatin   | Vyatka State Agricultural Academy, Kirov, Russia  |
| Agritech-III-5045 | Two-stage leaching of copper-zinc concentrate containing tennantite   | A V Artykova, V S Melamud, Ya Boduen and A G Bulaev  | Winogradsky Institute of Microbiology, Research Center of Biotechnology of the Russian Academy of Sciences, Moscow, Russia; Saint Petersburg Mining University, Saint Petersburg, Russia  |



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| Agritech-III-5046 | Humus substances content in agrochernozems using for cultivation of oilseeds in the Kansk forest-steppe  | O A Vlasenko, N L Kurachenko, O A Ulyanova, V V Kazanov and F Kh Khalilzoda | ФГБОУ ВО Красноярский государственный аграрный университет   |
| Agritech-III-5047 | Features of accumulation of trace elements in the soil-honey plants system in the Tyumen region  | S A Pashayan, A V Sindireva, V A Boev                                       | State Agrarian University of the Northern Trans-Urals, Tyumen; Federal State Autonomous Educational Institution of Higher Education Tyumen State University, Tyumen, Russia.   |
| Agritech-III-5048 | Colonization of the young glaciofluvial deposits at the period of the modern climate warming in the North-Chuya glaciation center                                    | E E Timoshok, E N Timoshok and Yu G Raiskaia                                | Institute of Monitoring of Climatic and Ecological Systems, Siberian Branch of the Russian Academy of Sciences, Tomsk, Russia  |
| Agritech-III-5049 | The impact of fires on the vegetation of the North Baikal islands (Big Ushkan Island)  | E V Bukharova and N M Luzhkova  | Federal State Establishment United Administration of Barguzinsky State Nature Biosphere Reserve and Zabaikalsky National Park ("Zapovednoe Podlemorye"), Ust-Bargizin, Russia; V.B. Sochava Institute of Geography SB RAS, Irkutsk, Russia |
| Agritech-III-5050 | Assessing the condition and monitoring results of the high conservation value forests in the Totemsky District of Vologda Oblast on the leased parcel of forest land | F N Druzhinin, N A Druzhinin and E N Pilipko                                | Vereshchagin Vologda State Dairy Farming Academy, Vologda, Russia,   |
| Agritech-III-5051 | Calculated determination of the flow coefficient through the intake system of the internal combustion engine   | L A Zholobov, A V Medvedev, A V Pasin and A I Novozhilov                    | Nizhny Novgorod State Agricultural Academy, Nizhny Novgorod, Russia  |
| Agritech-III-5052 | Development of a methodology for assessing the impact of vehicles on the acoustic environment  | O P Lopatin   | Vyatka State Agricultural Academy, Kirov, Russia   |

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| Agritech-III-5053 | Method for calculating soot particles in an internal combustion engine running on alcohol fuel                     | V A Likhanov and O P Lopatin   | Vyatka State Agricultural Academy, Kirov, Russia  |
| Agritech-III-5054 | Investigation of stone dust nanoparticles and their role in the formation of negative phenomena for mining workers | A Yu Aleksandrova, S S Timofeeva   | Irkutsk National Research Technical University, Irkutsk, Russia   |
| Agritech-III-5055 | Research of heat and mass transfer characteristics of industrial cooling tower sprinklers                          | E V Boev and N I Boeva   | Ufa State Petroleum Technological University  |
| Agritech-III-5056 | The effect of washes on the offset rubber blanket  | G N Zhuravleva, Y M Syltanova, A A Rovenskikh and S Yu Yamilinets                    | Moscow Polytechnic University, Moscow, Russia   |
| Agritech-III-5057 | Habitat and Specificity of the Satyrinae (Lepidoptera, Satyrinae) of Kurgan Oblast                                 | T A Khlyzova and S A Kozlov  | Tobolsk Complex Scientific Station of the Ural Branch of the Russian Academy of Sciences, Tobolsk, Russia   |
| Agritech-III-5058 | Investigation of the portion size of rapeseed oil for ethanol ignition in a diesel engine                          | V A Likhanov A N Kozlov and M I Araslanov  | Department of thermal engines, automobiles and tractors, Vyatka State Agricultural Academy, Kirov, Russian Federation   |
| Agritech-III-5059 | Emission flame characteristics for cyclic combustion of liquid fuels   | A V Rossokhin  | FSBEI HE Vyatka SAA   |
| Agritech-III-5060 | Mathematical modeling of grain mixtures in optimization tasks of the dump bunker`s kinematic parameters            | I L Rogovskii, L S Shymko, S A Voinash, V A Sokolova, A A Rzhavtsev and A V Andronov | National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine<br>Federal State Budgetary Educational Institution of Higher Education "Novosibirsk State Agrarian University", Novosibirsk, Russian Federation<br>Federal State Budgetary Educational Institution of Higher Education "St. Petersburg State Forestry University named after S.M. Kirov", Saint-Petersburg, Russian Federation |

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| Agritech-III-5061 | Analytical processing of experimental results for determining the particle size of soot in various parts of the diesel exhaust system | V A Likhanov and A V Rossokhin  | FSBEI HE Vyatka SAA  |
| Agritech-III-5062 | Indicators of massive cluster of nitrogen oxides within the operation of a diesel CI engine on methyl hydroxide                       | A A Anfilatov and A N Chuvashv  | Vyatka State Agricultural Academy, Kirov, Russia   |
| Agritech-III-5063 | Characteristics of biofuel combustion in a diesel engine  | A V Fominykh and V N Kopchikov  | Vyatka State Agricultural Academy, Kirov, Russia   |
| Agritech-III-5064 | Methods of sample preparation for experimental registration of the size of soot particles in ICE                                      | V A Likhanov and A V Rossokhin  | FSBEI HE Vyatka SAA  |
| Agritech-III-5065 | Features of fuel supply in diesel cylinder when working on methanol   | A N Chuvashv and A A Anfilatov  | Department of thermal engines, automobiles and tractors, Vyatka State Agricultural Academy, Kirov, Russia  |
| Agritech-III-5066 | Methyl hydroxide combustion in a diesel cylinder and its effect on the cluster of carbon black  | V A Likhanov and A A Anfilatov  | Vyatka State Agricultural Academy, Kirov, Russia   |
| Agritech-III-5067 | Charcteristics of heat release in the disel engine running on biofuel   | A V Fominykh and V N Kopchikov  | Vyatka State Agricultural Academy  |
| Agritech-III-5068 | Application of the phytotesting method to assess the environmental impact of the waste of Lovozersky GOK LLC                          | E A Krasavtseva , V V Maksimova | Laboratory of Nature-Inspired Technologies and Environmental Safety of the Arctic of the Federal Research Centre «Kola Science Centre of the Russian Academy of Sciences»; Institute of North Industrial Ecology Problems of the Federal Research Centre «Kola Science Centre of the Russian Academy of Sciences», Apatity, Russia |

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| Agritech-III-5069 | The effect of methyl hydroxide ignition in CI motor on the volumetric upkeep of nitrogen oxides in exhaust gases | A A Anfilatov and A N Chuvashv  | Vyatka State Agricultural Academy, Kirov, Russia  |
| Agritech-III-5070 | Influence of crankshaft speed on biofuel combustion in a diesel engine   | A V Fominykh and V N Kopchikov  | Vyatka State Agricultural Academy   |
| Agritech-III-5071 | Features of calculating the ignition delay period  | A N Chuvashv and A A Anfilatov  | Department of thermal engines, automobiles and tractors, Vyatka State Agricultural Academy, Kirov, Russia   |
| Agritech-III-5072 | Model of soot formation and burning in the cylinder of a dimension 4 H 11.0 / 12.5 diesel engine                 | A I Chuprakov, A E Toropov and A V Grebnev  | Vyatka State Agricultural Academy, Kirov, Russian Federation  |
| Agritech-III-5073 | The influence of adjustment parameters on the performance of the combustion process                              | V A Likhanov and A V Rossokhin  | FSBEI HE Vyatka State Agricultural Academy  |
| Agritech-III-5074 | Collagen-based hydrogel functionalized with rhBMP-2  | E V Galitsyna, T B Bukharova, A V Vasilyev, E O Osidak, S P Domogatsky and D V Goldshtein | Research Centre for Medical Genetics, Moscow, Russia; Central Research Institute of Dental and Maxillofacial Surgery, Moscow, Russia; Peoples' Friendship University of Russia, Moscow, Russia; Imtek Company Ltd., Moscow, Russia; Cardiology Research and Production Center, Moscow, Russia |
| Agritech-III-5075 | The impact of the use of methanol in a diesel engine on toxic indicators depending on changes in load and speed  | V A Likhanov and A A Anfilatov  | Vyatka State Agricultural Academy, Kirov, Russia  |
| Agritech-III-5076 | Heat release indicators when working on methanol   | A E Toropov and A N Chuvashv  | Department of thermal engines, automobiles and tractors, Vyatka State Agricultural Academy, Kirov, Russia   |

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| Agritech-III-5077 | The dependence of the change in temperature of the cycle in the diesel cylinder during the combustion of alcohol fuel       | A A Anfilatov and A I Chuprakov  | Vyatka State Agricultural Academy, Kirov, Russia   |
| Agritech-III-5078 | Environmental characteristics of the engine when running on methanol  | A N Chuvashhev and A I Chuprakov   | Department of thermal engines, automobiles and tractors, Vyatka State Agricultural Academy, Kirov, Russia                            |
| Agritech-III-5079 | Experimental determination of the performance of a diesel engine using compressed natural gas under various load conditions | M I Araslanov  | FSBEI HE Vyatka State Agricultural Academy   |
| Agritech-III-5080 | Features of the use of methanol as adiesel fuel   | A N Chuvashhev and A I Chuprakov   | Department of thermal engines, automobiles and tractors, Vyatka State Agricultural Academy, Kirov, Russia                            |
| Agritech-III-5081 | Triboelectric Nanogenerator technology potential in agricultural LED lighting   | I M Bamatov and D M Bamatov  | FGBOU VO Chechen State University; Grozny State Oil Technical University named after Academician M. D. Millionshikov, Grozny, Russia |
| Agritech-III-5082 | Features of the use of alcohols as additives to standard motor fuels  | A I Chuprakov, A A Anfilatov and A N Chuvashhev  | Vyatka State Agricultural Academy, Kirov, Russian Federation   |
| Agritech-III-5083 | Harvester and transporting device development for obtaining high-quality soybean seeds                                      | Irina Prisyazhnaya, Valentina Sinegovskaya, Serafima Prisyazhnaya, Mikhail Sinegovskii   | Federal State Budget Scientific Institution All-Russian Scientific Research Institute of Soybean                                     |
| Agritech-III-5084 | Algological assessment of oil pollution in ecotonic ecosystems  | M Yu Sharipova , I E Dubovik, V P Putenikhin, D I Akhmedyanov, G F Gabidullina, G A Gulamanova, L Z Teltsova and R R Turyanova | Bashkir State University, Ufa, Republic of Bashkortostan, Russia   |
| Agritech-III-5085 | Estimation of remediation conditions for technogenic landscapes in Khakassia  | E Gurkova and V Androkhanov  | Institute of Soil Science and Agrochemistry, SB RAS, Novosibirsk, Russia   |

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| Agritech-III-5086 | The influence of natural geochemical provinces on the quality of drinking water and public health risk   | S V Kleyn, N V Zaitseva, I V May, M V Glukhikh and V A Aristov | Federal State Budgetary Scientific Institution "Federal Scientific Center for Medical and Preventive Health Risk Management Technologies" of the Federal Supervision Agency for Customer Protection and Human Welfare; Federal State Budgetary Educational Institution of High Education "Perm State National Research University", Perm, Russia               |
| Agritech-III-5087 | Strain hardening and features of slowing down the movement of dislocations in single crystals  | M L Skryabin   | Vyatka State Agricultural Academy, Kirov, Russia   |
| Agritech-III-5088 | The dynamic analysis of atmospheric air quality and the reasons for its change in the Russian Federation                                       | N V Zaitseva , S V Kleyn, S A Vekovshinina and A M Andrishunas | Federal State Budgetary Scientific Institution "Federal Scientific Center for Medical and Preventive Health Risk Management Technologies" of the Federal Supervision Agency for Customer Protection and Human Welfare, Perm, Russia; Federal State Budgetary Educational Institution of High Education "Perm State National Research University", Perm, Russia |
| Agritech-III-5089 | Influence of heat treatment on the presence of a rock-like fracture of steel 35 HGSL   | M L Skryabin   | Vyatka State Agricultural Academy, Kirov, Russia   |
| Agritech-III-5090 | Analysis of heat release characteristics when working on methanol  | A N Chuvashhev and A E Toropov                                 | Department of thermal engines, automobiles and tractors, Vyatka State Agricultural Academy, Kirov, Russia  |
| Agritech-III-5091 | The main technologies of protection against corrosion of the body and welds of LADA VESTA and LADA LARGUS cars used in agricultural production | M L Skryabin   | Vyatka State Agricultural Academy, Kirov, Russia   |

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| Agritech-III-5092 | The formation of soot in the cylinder of a diesel engine when operating on methanol-containing fuel used in the form of emulsions | A I Chuprakov, A A Anfilatov and A N Chuvashv                                    | Vyatka State Agricultural Academy, Kirov, Russian Federation   |
| Agritech-III-5093 | To the problem of the quality of the natural environment in the zones of influence of oil storage and transshipment facilities    | E V Sedusova, I V May and S V Kley   | Federal State Budgetary Scientific Institution "Federal Scientific Center for Medical and Preventive Health Risk Management Technologies"; Federal State Budgetary Educational Institution of High Education "Perm National Research Polytechnic University"; Federal State Budgetary Educational Institution of High Education "Perm State National Research University", Perm, Russia; |
| Agritech-III-5094 | Application of ethanol fuel emulsion in diesel engines  | V A Likhanov, A N Chuvashv and A I Chuprakov                                     | Department of thermal engines, automobiles and tractors, Vyatka State Agricultural Academy, Kirov, Russia  |
| Agritech-III-5095 | The effect of ethanol on the environmental performance of a diesel engine   | V A Likhanov, A N Chuvashv and A I Chuprakov                                     | Department of thermal engines, automobiles and tractors, Vyatka State Agricultural Academy, Kirov, Russia  |
| Agritech-III-5096 | The study of the properties of ethanol-fuel emulsions with the use of supplements targeted actions                                | A N Chuvashv and A I Chuprakov   | Department of thermal engines, automobiles and tractors, Vyatka State Agricultural Academy, Kirov, Russia  |
| Agritech-III-5097 | Assessment of crop production quality in case technogenic soil pollution  | Sh K Khusnidinov, R V Zamaschikov, N N Dmitriev, M V Butyrin and T N Sosnitskaya | Irkutsk state agrarian University named after A. A. Ezhevsky, Irkutsk, Russia; Agrochemical service center of Irkutsk, Irkutsk, Russia   |
| Agritech-III-5098 | A comparative study of the various light sources regenerative potential using Populus berolinensis root explants as an example    | V V Pavlichenko, M V Protopopova and V K Voinikov                                | Siberian Institute of Plant Physiology and Biochemistry, Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia; Irkutsk State University, Irkutsk, Russia  |

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| Agritech-III-5099 | The effect of complex composts on the growth and dynamics of the number of vermiculture <i>Esenia Fetida</i> | N V Nakonechnyi, D V Ibragimova and A A Emtsev | Surgut State University, Surgut, Russia |
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| Agritech-III-5100 | Assessment of the impact of internal combustion engine exhaust gases on the environment and ways to neutralize nitrogen oxides | M L Skryabin, V A Likhanov and M S Poyarkov | Vyatka State Agricultural Academy, Kirov, Russia |
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## Section 6. Biodiversity and Ecosystem Stability

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| Agritech-III-6001 | Evaluation of potato varieties as a source material for selection | S. Konstantinova and A. Fadeev | Federal Agricultural Research Center of the North-East named N. V. Rudnitskogo, Kirov, Russia |
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| Agritech-III-6002 | Features of soybean seed production of the northern ecotype at the first stages | N.Mikhaylova and A.Fadeev | Federal Agricultural Research Center of the North-East named N. V. Rudnitskogo, Kirov, Russia |
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| Agritech-III-6003 | Contemporary methods of environmental monitoring in aquaculture | E A Zavyalova, A E Droshnev, K Yu Bulina and D A Alontseva | Federal State Budget Scientific Institution «Federal Scientific Centre VIEV» |
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| Agritech-III-6004 | Autoimmune thyroiditis with systemic idiopathic fibrosis in horses | Sergey Yu Smolentsev, Alizade S Gasanov, Mirzabek G Zukhrabov, Zulfiyat M Zukhrabova, Olga I Shorkina, Dina M Mukhutdinova, Alfiya R Shageeva | Mari State University, Yoshkar-Ola city, Russia; Kazan State Academy of Veterinary Medicine by N.E. Bauman, Kazan city, Russia |
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| Agritech-III-6005 | Effects of crop rotation, pesticides and fertilizers on wheat seed contamination with seed-borne <i>Fusarium</i> pathogens | V V Keler, S V Khizhnyak and E N Eskova | Krasnoyarsk State Agrarian University, Krasnoyarsk City, Russia |
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| Agritech-III-6006 | Virological research as an integral part of complex monitoring of fish diseases   | E A Zavyalova  | FSC VIEV   |
| Agritech-III-6007 | Untraditional feeds influencing on poultry growth   | N V Vasileva, Z V Tsoy   | Primorsky Scientific research Institute named by A.K. Chaika of the Far East region, Primorsky State agricultural academy  |
| Agritech-III-6008 | Assessment of key habitats of suburban forests in Krasnoyarsk   | A A Vais <sup>1</sup> , G S Varaksin <sup>2,3</sup> , V I Nezamov <sup>2</sup> , O P Kolpakova <sup>2</sup> and E A Anuev <sup>1</sup> | Reshetnev Siberian State University of Science and Technology, Krasnoyarsk state agrarian university, Krasnoyarsk, Sukachev Institute of Forest SB RAS, Federal Research Center «Krasnoyarsk Science Center SB RAS», Krasnoyarsk, Russia                         |
| Agritech-III-6009 | A study of the productivity of alfalfa with melilot grass mixture and methods for developing their layer in the Caspian plain on irrigation         | B Mukhambetov, R Abdinov, I Didenko, N Zamzamova, D Bogdanova  | Kh.Dosmukhamedov Atyrau State University, Atyrau city; Ural Agricultural Pilot Station, Uralsk city, Kazakhstan Republic   |
| Agritech-III-6010 | The effect of gold mining on developmental instability in leaves of <i>Betula platyphylla</i> (Betulaceae) and <i>Populus tremula</i> (Salicaceae). | I S Korotchenko, S V Khizhnyak, G G Pervyshina, E Ya Muchkina and V A Medvedeva  | Krasnoyarsk State Agrarian University, Krasnoyarsk; Siberian Federal University, Krasnoyarsk   |
| Agritech-III-6011 | Biodiversity: structure, problems and conservation prospects  | T Yu Petrisheva and N V Morgacheva   | Bunin Yelets State University  |
| Agritech-III-6012 | Bacteriological profile in falcon-like birds under aviary captive conditions  | N V Pimenov, A V Konstantynov and A V Pavlova  | Academy of Veterinary Medicine and Biotechnology - MBA by K.I. Skryabin, Moscow, Russian Federation; Academy of Veterinary Medicine and Biotechnology - MBA by K.I. Skryabin, Moscow, Russian Federation; Lugansk National Agrarian University, Lugansk, Ukraine |
| Agritech-III-6013 | FLORA OF THE SOUTH-WESTERN REGION OF ABAKAN   | E.M. Antipova, O.P. Chebotareva  | Krasnoyarsk state pedagogical University named after V. p. Astafiev  |

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| Agritech-III-6014 | The influence of crop predecessor and chemicalization levels on grain quality and spring wheat productivity              | A M Zaitsev and I N Kovalenko   | Irkutsk State Agrarian University named after A.A. Ezhevsky, Irkutsk Scientific Research Institute of Agriculture, Russian Federation   |
| Agritech-III-6015 | Asymmetry and shape in leaf blade red clover   | S G Baranov, I E Zykov, D D Kuznetsova, and L V Fedorova  | Federal State Budgetary Scientific Institution, Vladimir State University named after A.G. and N.G. Stoletov, State Humanitarian Technological University, Orekhovo-Zuevo, I.M. Sechenov First Moscow State Medical University, Russian Federation              |
| Agritech-III-6016 | Change in the agrophysical properties of frozen soils under anthropogenic effects  | A P Pesterev  | North-East Federal University named after M.K. Ammosov, Mining Institute, Yakutsk, Republic of Saha (Yakutia), Russia   |
| Agritech-III-6017 | Changes in humus content in sod-podzolic soils as a result of agricultural use   | S A Zamyatin, A Yr Efimova, R B Maksimova C A Maksutkin, R I Zolotareva, V A Maksimov and T G Zamyatina | Mari Agricultural Research Institute – branch of Federal Agrarian Research Center of the North-East named N.V.Rudnitsky, Municipal educational budgetary institution «Comprehensive evening school of Medvedevo district», Mari El Republic, Russian Federation |
| Agritech-III-6018 | The impact of the <i>Chimaphila umbellata</i> (L.) W.P.C.Barton extract on the immune response in animals                | Ch B Kusheev, E M Kutaev, S S Lomboeva, V B Khobrakova and S A Pavlov                                   | Irkutsk State Agrarian University named after A.A. Ezhevsky, Irkutsk region, Molodezhny, Russia; Institute of General and Experimental Biology of the SB of the RAS, Ulan-Ude, Russia   |
| Agritech-III-6019 | Floral finds of new and selten plants in the city of Abakan (Republic of Khakassia, Russian Federation)                  | E. M. Antipova, O. P. Chebotareva   | V. P. Astafyev Krasnoyarsk State Pedagogical University   |
| Agritech-III-6020 | Comparison of the effect of various drugs on the survival rate of hop cuttings   | D Dementiev, I Ivanova and A Fadeev   | Federal Agricultural Research Center of the North-East named N. V. Rudnitskogo, Russia  |
| Agritech-III-6021 | Cytostructure of the radial parenchyma of annual shoots of wild species of Meyer's currant ( <i>Ribes Meyeri</i> Maxim.) | A S Bakhtaulova, R K Karipbayeva  | Zhetysu state University named after I. Zhansugurov, Taldykorgan, Kazakhstan  |

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| Agritech-III-6022 | Efficiency of nitrogen fertilizers and nutrition systems in the cultivation of winter wheat using no-till technology in the arid zone of the Stavropol territory | A N Esaulko, A Y Ozheredova, E V Golosnoy, D A Melnikov and I Y Vdovydchenko | 1Stavropol State Agrarian University, lane Zootechnical 12, 355017, Stavropol, Russia   |
| Agritech-III-6023 | Ascarids infestation of captive big cats (Felidae) in zoos   | Olga A Panova and Alexander V Khrustalev                                     | Federal State Budget Scientific Institution "Federal Scientific Centre VIEV", Moscow, Russia  |
| Agritech-III-6024 | Vitamin value assessment of fruits and berries in the Central Black Earth Region (CBER) by the level of biologically active substances in the wild analogues     | N V Morgacheva, V L Zakharov, T Yu Petrisheva and E B Sotnikova              | Bunin Yelets State University   |
| Agritech-III-6025 | Arctic-high-altitude, steppe and nemoral species in the flora of the Angara-Chunsky interfluves  | F S Yuzefovich, N N Tupitsyna  | V. P. Astafyev Krasnoyarsk State Pedagogical University   |
| Agritech-III-6026 | Assessment of winter triticale genotypes in the selection of grain-feed varieties for the foothill zone of the Central Caucasus                                  | I R Manukyan and E S Miroshnikova  | North Caucasian Research Institute of Mountain and Piedmont Agriculture – the Affiliate of Vladikavkaz Scientific Centre of the Russian Academy of Sciences, Mikhailovskoye, Russia |
| Agritech-III-6027 | Etiology and diagnosis of the gastrointestinal and respiratory diseases of calves in the farms of the Vologda region   | V N Makarova, O B Badeeva, I N Simanova, and M V Korukina                    | Vologda branch of FGBNU FNC VIEW RAN, Vologda, 160000, Russian federation   |
| Agritech-III-6028 | Methods of storing rabbit meat to ensure functional nutrition  | A V Antipov, O S Prantsuz, S V Beketov, V A Klimov                           | Moscow State University of Technologies and Management named after K. G. Razumovsky (the First Cossack University)  |
| Agritech-III-6029 | The effectiveness of belmin in feeding of female arctic foxes ( <i>Vulpes lagopus</i> L.) to increase reproductive functions                                     | S V Beketov, L V Toporova, L V Gryaditskaya, Z S Ruchkina                    | MGUTU named after K.G. Razumovsky (PKU), Moscow; MGAVMiB-MVA named after K.I. Scriabin, Moscow  |

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| Agritech-III-6030 | Technology of the application of microbial preparations on ordinary chernozem soil in the zone of unstable moistening of the Central Ciscaucasia  | Vera I Faizova, Sergey I Tskhovrebov, Vera I Lysenko and Andrey I Novikov | Federal state budgetary educational institution of higher professional education "Stavropol State Agrarian University"  |
| Agritech-III-6031 | Organization of keeping animals in the aviary   | T A Moiseeva  | Petrozavodsk State University, Petrozavodsk, Russia   |
| Agritech-III-6032 | Ecologically clean technologies of young cattle development   | N E Sattarov, A N Borotov, N A Ashurov, M N Sattarov                      | Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan   |
| Agritech-III-6033 | Mobile humus response of alluvial dark humus soil in the Krasnoyarsk forest-steppe for vermicompost application   | O A Ulyanova, M S Butenko, I A Rechkin, V N Zhulanova and O V Martynova   | Krasnoyarsk State Agrarian University, 90 Mira avenue, Krasnoyarsk; Siberian Federal University, Krasnoyarsk; Tuva State University, Kyzyl, Russia  |
| Agritech-III-6034 | Antibiotic resistance of micro-organisms separated from the Baikal seal   | A A Pliska, N I Ryadinskaya, A S Batomunkuev and D A Ponomarev            | FSBI Irkutsk Interregional Veterinary Laboratory, Irkutsk; FSBEI HE Irkutsk State Agrarian University named after A. A. Ezhevsky, Irkutsk; MBEI SGES No. 15, Irkutsk  |
| Agritech-III-6035 | Species composition and distribution of blood-sucking Diptera insects of the Tyumen region<br><br>Species composition and distribution of blood-sucking Diptera insects [d1] of the Tyumen region | T A Khlyzova and O A Fiodorova  | Tobolsk Complex Scientific Station of the Ural Branch of the Russian Academy of Science, Tobolsk, Russia; All-Russian scientific research institute of veterinary entomology and arachnology Branch of Federal State Institution Federal Research Centre Tyumen Scientific Centre of Siberian Branch of the Russian Academy of Sciences, Tyumen, Russia |
| Agritech-III-6036 | The organization of feeding animals in aviaries   | T A Moiseeva  | Petrozavodsk State University, Petrozavodsk, Russia   |
| Agritech-III-6037 | Growth and development of Kochia prostrate (L.) Schrad in the extraordinary year in the north desert of Atyrau region in Kazakhstan   | B Mukhambetov, R Abdinov, R Alzhanova, Zh Kadasheva                       | Kh.Dosmukhamedov Atyrau State University, Atyrau city; Kazakh National Agrarian University, Almaty city, Kazakhstan Republic  |

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| Agritech-III-6038 | Mannheimiosis of cattle, sheep and goats  | A I Laishevtsev   | Federal State Budget Scientific Institution "Federal Scientific Centre VIEV" (FSC VIEV). Ryazanskiy prospect, 24, 1, Moscow 109428, Russia  |
| Agritech-III-6039 | Adaptive anti-oxidative responses to chronic exposure of stress-signaling molecule, oxidized cell-free DNA, in rat neural cells | A D Filev, S V Kostyuk, V M Pisarev, V Yu Tabakov and P E Umriukhin | Research Centre for Medical Genetics (RCMG), Moscow, Russia; V. A. Negovsky Research Institute of General Reanimatology, Federal Research and Clinical Centre of Intensive Care Medicine and Rehabilitology, Moscow, Russia; I.M. Sechenov First Moscow State Medical University (Sechenov University), Moscow, Russia; P.K. Anokhin Institute of Normal Physiology, Moscow, Russia   |
| Agritech-III-6040 | Functional state of the adrenocortical and sympathoadrenal systems in animals with early postnatal cold imprinting              | V G Selyatitskaya and N A Palchikova                                | Federal Research Center of Fundamental and Transnational Medicine, Novosibirsk, Russia  |
| Agritech-III-6041 | Species diversity of Clostridia causing malignant edema in cattle   | A V Kapustin, A I Laishevtcev, E V Ivanov and A V Danilyuk          | Federal State Budget Scientific Institution "Federal Scientific Centre VIEV" (FSC VIEV). Ryazanskiy prospect, 24, 1, Moscow 109428, Russia  |
| Agritech-III-6042 | Molecular-genetic analysis of bovine herpesvirus-5 (BoHV-5) in the milk of cows in farms of Vologda region                      | I N Simanova, S V Alekseyenkova and K P Yurov                       | Vologda branch of The Federal research center-all-Russian research Institute of experimental veterinary medicine named after K. I. Scriabin and Ya. R. Kovalenko of the Russian Academy of Sciences, Vologda, 160000, Russia; Federal scientific center-all-Russian research Institute of experimental veterinary medicine named after K. I. Scriabin and Ya. R. Kovalenko of the Russian Academy of Sciences, Moscow, 109428, Russia |
| Agritech-III-6043 | The effect of unconventional mineral mixtures on the nutrient digestibility of broiler chicken feed                             | L E Tyurina, N A Tabakov, T F Lefler, E G Turitsyna, A G Volkova    | FSBEI HE Krasnoyarsk State Agrarian University  |

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| Agritech-III-6044 | Study of the influence of external factors on the inheritance of forms of dissociants <i>Pseudomonas mandelii</i>                  | G Kh Vafina and E E Stupak  | Ufa Institute of biology – Subdivision of the Ufa Federal Research Centre of the Russian Academy of Sciences   |
| Agritech-III-6045 | The influence of green-manured and complete fallow on soil fertility and wheat productivity in Tuva                                | V N Zhulanova, O A Ulyanova, T F Zharova and A D Sambuu                       | Tuvan State University, Kyzyl; Krasnoyarsk State Agricultural University, Krasnoyarsk; Tuva Institute for integrated development of natural resources of the Siberian branch of the Russian Academy of Sciences, Kyzyl, Russia |
| Agritech-III-6046 | Novel approach to protein-protein interaction assessment   | F N Gilmiyarova, N A Kolotyeva, V I Kuzmicheva, V V Remizov and O A Gusyakova | Samara State Medical University, Samara, Russia  |
| Agritech-III-6047 | Productivity and feed value of sparsely distributed annual crops   | A T Avetisyan, L P Baykalova, O S Artemyev and O V Martynova                  | Krasnoyarsk state agrarian University; Siberian state university of science and technology named after academician M. F. Reshetnev, Krasnoyarsk, Russia  |
| Agritech-III-6048 | Incidence and seasonal variation of pet dermatophytosis in Moscow region   | V A Savinov, A V Kapustin, R S Ovchinnikov, P N Shastin and A I Laishevtsev   | Federal State Budget Scientific Institution “Federal Scientific Centre VIEV” (FSC VIEV), Moscow, Russia  |
| Agritech-III-6049 | Studying the diet of wild reindeer (forest subspecies) ( <i>Rangifer Tarandus</i> L.) in the territory of the Middle Yenisei taiga | P V Kochkarev, D S Zarubin and E S Maslova                                    | Central Siberian State Nature Biosphere Reserve, Bor village, Russia   |
| Agritech-III-6050 | Bioethics as effective method for preserving biological diversity on Earth   | T I Barmashova and E V Lazutkina  | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia; Siberian Federal University, Krasnoyarsk, Russia   |
| Agritech-III-6051 | Morphofunctional changes in the organs of excretion and detoxification during long-turn low-dose impact of pesticides              | L K Gerunova, E G Bardina and I V Sechkina                                    | Omsk state Agrarian University named after P A Stolypin; Omsk state Technical University, Omsk, Russia   |

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| Agritech-III-6052 | The issue of the change of the climatic conditions of the Rostov region of the Russian Federation  | A Yu Zhidkova, R V Zarubina, V A Panova and N M Saenko   | Rostov State University of Economics, Taganrog, Russia  |
| Agritech-III-6053 | Methods of creation and characterization of specialized quail meat breed   | D V Anshakov , Ya S Royter, T N Degtyareva, O N Degtyareva                                     | Federal Scientific Center "All-Russian Research and Technological Institute of Poultry" of Russian Academy of Sciences  |
| Agritech-III-6054 | Assessment of the ecological state of the Boguchany reservoir by zoobenthos organisms  | Anna V Andrianova  | Institute of Computational Modeling, Siberian Branch of the Russian Academy of Sciences; Krasnoyarsk branch of VNIRO («NIIERV»), Krasnoyarsk, Russia            |
| Agritech-III-6055 | Ecological and agrochemical assessment of the effect of fertilizers on the behavior of cadmium and lead in soil                            | T S Morozova, V I Geltukhina, L A Manokhina, E Y Kolesnichenko                                 | Federal State Budgetary Educational Institution of Higher Education "Belgorod State Agricultural University named after V. Gorin", Belgorod, Russian Federation |
| Agritech-III-6056 | Some features of primary seed production of large-grained rice genotypes on the example of variety Anait                                   | R R Dzhampirze, N V Ostapenko, S V Garkusha and N N Chinchenko                                 | Federal State Budgetary Scientific Institution «Federal Scientific Rice Centre», Krasnodar, Russia  |
| Agritech-III-6057 | The influence of natural salt of various concentrations on the chemical properties of chernozem  | N L Kurachenko, OA Ulyanova, OA Vlasenko and E Yu Casanova                                     | Krasnoyarsk State Agrarian University   |
| Agritech-III-6058 | Perspectives of the use of bacteriophages in agriculture, food and processing industries   | D D Smirnov, A V Kapustin, E A Yakimova, V A Savinov and A I Laishevtsev                       | Federal State Budget Scientific Institution "Federal Scientific Centre VIEV"  |
| Agritech-III-6059 | Experimental larval rearing of the Japanese sea cucumber ( <i>Apostichopus japonicus</i> ) in Severnaya bay (Slavyansky bay, Sea of Japan) | I V Matrosova, A A Politaeva, V V Ilyuschenko, E M Panchishina, E V Shadrina and N L Kornienko | Far Eastern State Technical Fisheries University, Vladivostok, Russia   |
| Agritech-III-6060 | Karyology of the Species <i>Oxytropis lessingiana</i> Knjasev (Fabaceae) Endemic to the South Urals  | N A Kalashnik, A A Muldashev, O A Elizaryeva and N V Maslova                                   | Ufa Institute of Biology, Ufa Federal Research Centre, Russian Academy of Sciences  |

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| Agritech-III-6061 | Determination of an effective regimen for maceration of berry raw materials of the <i>Rubus</i> genus                  | L P Sharoglazova, A A Belyakov, Ya V Smol'nikova, N A Velichko and T G Khramtsova                   | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia  |
| Agritech-III-6062 | Assessment of biological productivity of modal spruce forests in the taiga zone based on modeling the growth of stands | Sul'tson S. M., Mikhaylov P. V., Verkhovets S. V., Goroshko A.A., Kulakov S. S.                     | Laboratory of Forest Health, Reshetnev Siberian State University of Science and Technology; Sukachev Institute of Forest, Federal Research Center, Krasnoyarsk, Russian Federation              |
| Agritech-III-6063 | Effect of soil salinization on the productivity of pasture in the arid land  | Natalia A Kononova, Tamara I Pisman and Anatoly P Shevyrnogov                                       | Institute of Biophysics, Siberian Branch, Russian Academy of Sciences, Krasnoyarsk, Russia  |
| Agritech-III-6064 | Questions of conservation of wildlife of the Arctic zone   | I I Poiseev and S I Poiseeva  | North-Eastern Federal University, Yakutsk, Russia   |
| Agritech-III-6065 | Influence of cultivation factors on morphogenesis in vitro <i>salix acutifolia</i> willd                               | R Sergeev, D Zontikov, S Zontikova, D Kostromin, D Lastochkin, A Medyakov, A Timakov and A Kamensky | Volga State University of Technology, Yoshkar-Ola, Russia; Kostroma State University, Kostroma, Russia  |
| Agritech-III-6066 | Methods for assessing the toxic effects of heavy metals by bioassay methods  | M L Skryabin and D L Starkova   | Vyatka State Agricultural Academy, Kirov, Russia  |
| Agritech-III-6067 | Aspects of recreational zoning of the forest park «Kuskovo»  | A V Novikov, O V Sumarukova, N V Lagutina, A V Evgrafov and A V Rodionov                            | Russian State Agrarian University – Moscow Timiryazev Agricultural Academy, Institute of Amelioration, water management and construction named after A.N. Kostyakov, Moscow, Russian Federation |
| Agritech-III-6068 | Features of ecological formation and development of the forest park «Medvedkovsky»                                     | A V Novikov, O V Sumarukova, N V Lagutina, M V Barsukova and R Parmar                               | Russian State Agrarian University – Moscow Timiryazev Agricultural Academy, Institute of Amelioration, water management and construction named after  |



A.N. Kostyakov, Moscow,  
Russian Federation

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| Agritech-III-6070 | Air dust components as objects' environmental pollution  | S Y Zagorodnov   | Federal State Budgetary Scientific Institution "Federal Scientific Center for Medical and Preventive Health Risk Management Technologies" of the Federal Supervision Agency for Customer Protection and Human Welfare                     |
| Agritech-III-6071 | Differences in the spring wheat varieties response to herbicide as a stressor                          | O V Zlotnikova, E V Batanina and O V Romanova                              | FSBEI HE «Krasnoyarsk State Agrarian University», Krasnoyarsk Territory, Krasnoyarsk, Russia  |
| Agritech-III-6072 | Incidence and identification of peste des petits ruminants virus in Tajikistan                         | M Amirbekov, A O Abdulloev, M Anoyatbekov, A M Gulyukin and A D Zaberezhny | Institute for Biological Safety Problems of the Tajik Academy of Agricultural Sciences, Dushanbe, Republic of Tajikistan; Federal State Budget Institution "Federal Scientific Center VIEV" Moscow, Russia                                |
| Agritech-III-6073 | Multipotent mesenchymal stem cells in clinical veterinary practice                                     | E V Viktorova and I P Savchenkova  | Federal State Budget Scientific Institution "Federal Scientific Centre VIEV" (FSC VIEV), Moscow, Russia   |
| Agritech-III-6074 | Materials for the study of entomofauna of protected areas of Altai Krai: Ikonnikov Island              | A M Psarev, E A Ereemeev, V K Zinchenko                                    | The Shukshin Altai State Humanities Pedagogical University, Altai Krai, Biysk, Russian Federation; Siberian Zoological Museum, Institute of Animal Systematics and Ecology, Russian Academy of Sciences, Novosibirsk, Russian Federation. |
| Agritech-III-6075 | Landscape differentiation of the territory of the Voskresen-sky district of the Nizhny Novgorod region | A.E. Astashin, M.M. Badin, V.A. Ufilina, A.V. Samoylov and M.N. Pashkin    | Minin Nizhny Novgorod State Pedagogical University  |

## Section 7. Innovative Development of Agri-Food Technology

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| Agritech-III-7001 | The technology of production and the effectiveness of the use of a symbiotic preparation as a lysine | Igor V Pavlenko, Svetlana A Gryn, Evgenia V Markova, Alexey I Albulov, Larisa A Neminuschaya, Tatyana A Skotnikova, | All-Russian Scientific Research and Technological Institute of Biological Industry, Moscow region, Russia |
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producer when feeding broilers of highly productive crosses  
Valentina I Klyukina, Vera M Popova

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| Agritech-III-7002 | The study of the effect of carbohydrate-vitamin-mineral concentrate lizunets solevit on the health of milk cows    | D D Hairullin, Sh K Shakirov, F F Zinnatov, F M Nurgaliev, F A Medethanov, S Yu Smolentsev, A P Ovsyannikov and M I Gilemkhanov | Kazan State Academy of Veterinary Medicine by N.E. Bauman, Kazan city, Russia; Tatar Scientific Research Institute of Agriculture, FRC Kazan Scientific Center, Russian Academy of Sciences, Kazan city, Russia; Mari State University, Yoshkar-Ola city, Russia |
| Agritech-III-7003 | Flexibile Techhology for Complex Protectants for Grain Seeds   | Natalia G Vlasenko, Salavat S Khalikov and Svetlana V Burlakova   | Siberian Research Institute of Soil Management and Chemicalization of Agriculture SFSCA Russian Academy of Science, Krasnoobsk, Russia; Nesmeyanov Institute of Organoelement Compounds Russian Academy of Science, Moscow, Russia                               |
| Agritech-III-7004 | Productivity of edible fungi in taiga communities  | E A Luginina and T L Egoshina   | Russian Research Institute of Game Management and Fur Farming, Kirov, Russia; Vyatka State Agricultural Academy, Kirov, Russia   |
| Agritech-III-7005 | Development of primocane-fruited raspberry varieties in the conditions of forest-steppe zone of the Irkutsk region | E N Kiseleva, M A Rachenko, A M Rachenko and L E Kamyshova  | Siberian Institute of Plant Physiology and Biochemistry Siberian Branch of the Russian Academy of Sciences, Irkutsk, Russia  |
| Agritech-III-7006 | Supramolecular complexes of drugs for parasitic sheep infestations   | V A Marchenko and S S Khalikov  | Federal Altai Scientific Centre of Agro-BioTechnologies, Barnaul, Russia; Nesmeyanov Institute of Organoelement Compounds Russian Academy of Science, Moscow, Russia   |
| Agritech-III-7007 | Natural antimicrobials for preservation of salty fern  | S V Khizhnyak, G A Demidenko, N N Tipsina, E A Strupan and E Ya Muchkina  | Krasnoyarsk State Agrarian University; Siberian Federal University, Krasnoyarsk, Russia  |
| Agritech-III-7008 | Weeds biological control technique   | S A Bekuzarova, I M Khanieva, G V Lushchenko, D M Mamiev and A A Tedeeva  | Gorsky State Agrarian University, Vladikavkaz, Russia; Kabardino-Balkar State Agrarian University named after V.M. Kokov, Nalchik, Russia; The North   |

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|                   |  |  | Caucasian Research Institute of Mountain and Piedmont Agriculture – the Affiliate of Vladikavkaz Scientific Centre of the Russian Academy of Sciences, Mikhailovsky Village, Russia   |
| Agritech-III-7009 | Assessment of the effect of inbreeding on the productive longevity of dairy cattle       | O V Gorelik, O E Lihodeevskaya, N N Zezin, M Ya Sevostyanov and O I Leshonok | Research Center of the Ural Branch of the Russian Academy of Sciences, Yekaterinburg, Russian Federation  |
| Agritech-III-7010 | Functional and technological indicators of fermented minced meat                         | O Zinina, M Rebezov, M Khayrullin, O Neverova and T Bychkova                 | South Ural State University (national research university), Chelyabinsk, Russian Federation; V.M. Gorbатов Federal Research Center for Food Systems of Russian Academy of Sciences, Moscow, Russian Federation; Ural State Agrarian University, Yekaterinburg, Russian Federation; K.G. Razumovsky Moscow State University of technologies and management (the First Cossack University), Moscow, Russian Federation            |
| Agritech-III-7011 | The relationship of hematological parameters with growth indicators of young laying hens | S J Harlap, A S Gorelik, T I Bezhinar, O V Gorelik, M B Rebezov              | Urals state agricultural university, Yekaterinburg, Russian Federation; Ural Institute of The state fire service of the EMERCOM of Russia, Yekaterinburg, Russian Federation; South-Ural State Agrarian University, Troitsk, Russian Federation; V.M. Gorbатов Federal Research Center for Food Systems of Russian Academy of Sciences, Moscow, Russian Federation; Moscow Region State University, Mytishi, Russian Federation |
| Agritech-III-7012 | Sensory, physical and chemical indicators of fermented minced meat                       | O Zinina, M Rebezov, M Khayrullin, O Neverova and T Bychkova                 | South Ural State University (national research university), Chelyabinsk, Russian Federation; V.M. Gorbатов Federal Research Center for Food Systems of Russian Academy of Sciences, Moscow, Russian Federation; Moscow Region State University, city of Mytishi, Russian Federation; A. M. Prokhorov General Physics Institute, Russian Academy of Science, Moscow, Russian   |

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|                   |  |   | Federation; K.G. Razumovsky<br>Moscow State University of<br>technologies and<br>management (the First<br>Cossack University), Moscow,<br>Russian Federation |
| Agritech-III-7013 | The use of inbreeding in breeding dairy cattle   | O V Gorelik, E Lihodeevskaya, N N Zezin, M Ya Sevostyanov and O I Leshonok                | Research Center of the Ural Branch of the Russian Academy of Sciences, Yekaterinburg, Russian Federation   |
| Agritech-III-7014 | The influence of drip irrigation on growth of plum seedlings in central non-black soil zone of European Russia | N N Dubenok, A V Gemonov and A V Lebedev  | Russian State Agrarian University - Moscow Timiryazev Agricultural Academy, Moscow, Russia Federation  |
| Agritech-III-7015 | Effect of plant extract and probiotics on elemental status of muscle tissue of broilers                        | S G Rakhmatullin, G K Duskaev, B H Galiev   | Federal Research Centre of Biological Systems and Agrotechnologies RAS   |
| Agritech-III-7016 | Modeling the film zone of the continuous deodorator  | S G Marchenkova, I V Krotova, A S Shchitnikov, O Ya Kolman G V Ivanova and S A Khudonogov | Siberian Federal University  |
| Agritech-III-7017 | Betulin nanosuspension as a promising raw material for the production of long-term storage bread               | Natalia V Zavorohina, Natalia A Pankratieva and Nadezhda A Goncharova                     | Ural State University of Economics, Yekaterinburg, Russia  |
| Agritech-III-7018 | Dynamics of oil content and fatty acids composition variation in soybean cultivars of domestic breeding        | A A Churakov, Ya V Smol'nikova, O V Stutko and V V Tarnopol'skaya                         | Krasnoyarsk State Agrarian University; Reshetnev Siberian State University of Science and Technology, Krasnoyarsk, Russia                                    |
| Agritech-III-7019 | Development of recipes for energy bars for athletes, balanced by the main nutritional substances               | N V Prisuhina, L G Ermosh   | Krasnoyarsk state agrarian University  |
| Agritech-III-7020 | USE of Helianthus tuberosus L. POWDER IN THE PRODUCTION OF FROZEN BREAD  | L G Ermosh, N V Prisuhina, E N Nepomnyashchikh  | Institute of food production, Krasnoyarsk state agrarian University, Trade and economic Institute, Siberian Federal University, Russia, Krasnoyarsk          |

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| Agritech-III-7021 | Influence of biologics on the growth and productivity of tomato plants  | T M Trifonova   | Pacific National University, Khabarovsk, Russia  |
| Agritech-III-7022 | Production of soft cheese enriched with functional ingredients  | L G Krekker   | East Siberian State Technological University of Technology and Management  |
| Agritech-III-7023 | Adaptation problems of the food market to modern conditions   | O A Nezamova and J A Olentsova  | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia   |
| Agritech-III-7024 | Research of the enzyme preparation «Fungamyl Super BR» effect on the state of the carbohydrate-amylase complex of wheat flour of the first grade and the quality of bread | M V Kharina, T A Yamashev, E V Petukhova, A Yu Krynitskaya, Z A Kanarskaya                            | 1. Food biotechnology department, Kazan National Research Technological University, 68 Karl Marx street, Kazan, 420015, Russia<br>2. Food production technology department, Kazan National Research Technological University, 68 Karl Marx street, Kazan, 420015, Russia |
| Agritech-III-7025 | Safety and quality assessment of cheeses with mold  | S G dolganova, A B Budaeva, T L Khundanova, O A Gomboeva and A D Tsybikzhapov                         | Irkutsk State Agrarian University named after A.A. Ezhevsky, Irkutsk region, Russia; Buryat State Agricultural Academy named after V.R Filippov, Ulan-Ude, Russia  |
| Agritech-III-7026 | The effect of primary drying temperature on the antioxidant activity of jackfruit, melon and banana in yogurts  | I S Krasnova, G V Semenov, V I Ganina, Z V Volokitina and Zh L Guchok                                 | Moscow State University of food production, K.G. Razumovsky Moscow State University of technologies and management (the First Cossack University), Moscow, Russia  |
| Agritech-III-7027 | Influence of rate of flow of working fluid on efficiency of application of herbicides in winter wheat   | Natalya N. Glazunova, Juliya A. Bezgina, Lyubov V. Maznitsyna, Anna N. Shipulya and Elena V. Volosova | Stavropol State Agrarian University, Russia  |
| Agritech-III-7028 | Antioxidant activity and content of salidroside in ethanolic extracts of <i>Rhodiola rosea</i>  | N S Tsvetov, K Yu Dvornikov, E V Nikolaeva and V G Nikolaev   | Murmansk Arctic State University, a branch in Apatity  |

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| Agritech-III-7029 | The use of active bakery ingredients in bakery products of functional purpose                                       | I V Matseychik, S M Korpacheva and E A Suvorova                                     | Novosibirsk State Technical University, Novosibirsk, Russia  |
| Agritech-III-7030 | Functional fermented milk whey product: assesement of quality and safety  | M I Slozhenkina, I F Gorlov, V V Kryuchkova, N I Mosolova, A Bochkareva, O P Serova | Volga Region Research Institute of Manufacture and Processing of Meat-and-Milk Production, Volgograd State Technical University, Volgograd, Russia   |
| Agritech-III-7031 | Public-private partnership as a form ensuring food security in Russia   | Vladimir Sedykh, Galina Pyrchenkova, Elena Radchenko                                | Federal State Research Institute of the Federal Penitentiary Service of the Russian Federation, Moscow, Academy of Management of the Ministry of Internal Affairs of Russia, Moscow, Russian Federation  |
| Agritech-III-7032 | Analysis of efficiency of production of sausage products using non-traditional vegetable raw materials              | I F Gorlov, S E Bozhkova, Y D Danilov, E Y Anisimova, N I Mosolova, V Starodubova   | Volga Research Institute of Production and Processing of Meat and Dairy Products, Volgograd State Technical University, Volgograd, Russia  |
| Agritech-III-7033 | Statistics of food quality as a factor in the dynamics of development of nutritionally dependent diseases in Russia | S V Solodova, M I Slozhenkina, A M Fedotova, E A Mosolova, O A Knyazhechenko        | Volgograd State University, Volga Region Research Institute of Manufacture and Processing of Meat-and-Milk Production, Volgograd State Technical University, MOU Lyceum № 9 named after A.N. Neverova, MOU Lyceum № 8 "Olympia", Volgograd, Russia |
| Agritech-III-7034 | Special-purpose programs to strengthen national food system in regions of the Russian Federation                    | S P Sazonov, I A Yezangina, I A Chekhovskaya, M E Pashnanov, A I Chunakov           | Volgograd State Technical University, RF Ministry for Civil Defense, Emergency Management and Natural Disasters Response, Moscow, Territorial Authority of the Federal State Statistics in the Volgograd Region, Volgograd                         |
| Agritech-III-7035 | COVID-19 as a factor in the global food crisis  | G V Fedotova, N I Mosolova, Yu I Sigidov, N N Kulikova                              | Volga Research Institute of Production and Processing of Meat and Dairy Products, Kuban State Agrarian University named after Trubilin I.T., Volgograd State University,   |
| Agritech-III-7036 | The influence of water-soluble antioxidant on the productivity of chickens and hatching quality of eggs             | M I Slozhenkina, E A Struk, K C Ostrenko, A N Ovcharova, N A Yurina                 | Volga Region Research Institute of Manufacture and Processing of Meat-And-Milk Production, All-Russian research Institute of physiology, biochemistry and  |

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|                   |   |   | animal nutrition – branch of the Federal research center of animal husbandry – academician L. K. Ernst, Borovsk, Kaluga region, Krasnodar research center for animal husbandry and veterinary medicine, Krasnodar, Kuban state agrarian University named after I. T. Trubilin, Krasnodar, Russia |
| Agritech-III-7037 | Beef and dairy cattle breeding: development trends of small agribusiness in conditions of state support                   | Slozhenkina M I, Gorlov I F, Kholodova M A, Kholodov O A, Shakhbazova O P, D A Mosolova | Volga Region Research Institute of Manufacture and Processing of Meat-and-Milk Production, All-Russian Scientific Research Institute of Economics and Norms, Federal Rostov Agricultural Scientific Center (branch), Rostov-on-Don, Don State Agrarian University, Rostov-on-Don, Russia         |
| Agritech-III-7038 | Use of feed additives “Valopro” and “Ruprokol” to increase the energy of growth and meat productivity of simmental steers | M I Slozhenkina, I F Gorlov, V N Pristupa, Yu A Kolosov, V Kh Fedorov                   | Volga Region Research Institute of Manufacture and Processing of Meat-And-Milk Production, Volgograd, Don State Agrarian University, Persianovsky, Rostov-on-Don, Russia   |
| Agritech-III-7039 | Trends and prospects for the development of horticulture and vegetable growing in the region                              | Zhilyakov D I, Vertakova Yu V and Kharchenko E V  | Kursk, Kursk State Agricultural Academy, the Kursk branch of the Financial University under the Government of the Russian Federation   |
| Agritech-III-7040 | Research of lactose hydrolysis depending on the type of the enzyme  | E I Titov, N A Tikhomirova, B C Nguyen, M I Slozhenkina, N I Mosolova                   | Moscow state university of food production, Moscow, Volga Region Research Institute of Manufacture and Processing of Meat-and-Milk Production, Volgograd, Russia   |
| Agritech-III-7041 | Qualitative indicators of incubation eggs by using domestic vitamin E in nutrition of “Hisex Brown” cross chickens        | Slozhenkina M I, Komarova Z B, Voronina T V, Rudkovskaya A V, Friesen D V               | Volga Region Research Institute of Manufacture and Processing of Meat-and-Milk Production, Volgograd, Russia   |
| Agritech-III-7042 | Functional direction technology of dairy serum product  | I F Gorlov, M I Slozhenkina, V V Kryuchkova, A Bochkareva, O P Serova                   | Volga Region Research Institute of Manufacture and Processing of Meat-and-Milk Production, Volgograd State Technical University, Volgograd, Russia   |

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| Agritech-III-7043 | The efficiency of some microelement compositions in spring wheat cultivation system  | V N Timofeev and O A Vyushina   | Research Institute of Agriculture of the Northern Trans-Urals - Branch of the Tyumen Scientific Center SB RAS, Moscow settlement, Russian Federation        |
| Agritech-III-7044 | Improving the technology of crushing root crops  | N A Smirnov and R A Smirnov   | Nizhny Novgorod state engineering and economic university, 606340, Oktyabrskaya St., 22a, Knyaginino, Nizhny Novgorod Region, Russia                        |
| Agritech-III-7045 | The effectiveness of the Madufor® feed additive in hyperthermia conditions for broiler chickens                            | Slozhenkina M I, Komarova Z B, Golovin V V, Krotova O E, Tarasov E N            | Volga Research Institute of Production and processing of meat and dairy products, Volgograd   |
| Agritech-III-7046 | The development of an emulsion sauce recipe by adding <i>Rubus saxatilis</i> L. berries                                    | E A Rygalova, Ya V Smol'nikova, N A Velichko and T G Khramtsova                 | Krasnoyarsk State Agrarian University, Krasnoyarsk, Russia  |
| Agritech-III-7047 | Method for producing sausages, lycopine enriched   | I F Gorlov, M I Slozhenkina, S E Bozhkova, L F Grigoryan and D S Andryushchenko | Volga Region Research Institute of Manufacture and Processing of Meat-and-Milk Production, Volgograd State Technical University,                            |
| Agritech-III-7048 | Selection improvement of pear ( <i>Pyrus communis</i> L.) in the Lower Volga region  | A V Solonkin, O A Nikolskaya and E N Kikteva                                    | Federal Scientific Center for Agroecology, Complex Reclamation and Protective Forestation of the Russian Academy of Sciences, Volgograd, Russia             |
| Agritech-III-7049 | Compound whey dessert  | T V Serbova , O P Serova, S A Brekhova, M I Slozhenkina and N I Mosolova        | Volgograd State Technical University, Volga Region Research Institute of Manufacture and Processing of Meat-and-Milk Production, Volgograd                  |
| Agritech-III-7050 | Chemical compositions of dairy products and raw milk from cows kept at different technologies in farms of Volgograd region | I F Gorlov, M I Slozhenkina, A E Serkova, N I Mosolova and A N Sivko            | Volgograd State Technical University, Volgograd, Volga region research Institute of production and processing of meat and dairy products, Volgograd, Russia |



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| Agritech-III-7051 | Yogurt enriched to correct intestinal microflora in dysbiosis                             | V Yu Kontareva, SN Belik, EV V Morgul, I F Gorlov and M I Slozhenkina           | Don State Agrarian University, Rostov Region, Rostov State Medical University, Volga Region Research Institute of Manufacture and Processing of Meat-and-Milk Production, Volgograd, Russia  |
| Agritech-III-7052 | Antigenotoxic effect of prebiotics  | T S Kolmakova, E V Morgul, S N Belik, M I Slozhenkina and A R Morgul            | 1Rostov State Medical University, 29, Nakhichevan Lane, Rostov-on-Don, 344022, Russia<br>2Volga Region Research Institute of Manufacture and Processing of Meat-and-Milk Production, Volgograd, 6, Rokossovsky Str., Volgograd, 400131, Russia |
| Agritech-III-7053 | Gerodietetic meat product   | I F Gorlov, M I Slozhenkina, A G Zolotareva, O A Knyazhechenko and D A Mosolova | Volga Region Research Institute of Manufacture and Processing of Meat-and-Milk Production, Volgograd State Technical University, Volgograd   |
| Agritech-III-7054 | The effect of prebiotic components on the quality of yogurt                               | V Yu Kontareva, S N Belik, E V Morgul, I F Gorlov and M I Slozhenkina           | Don State Agrarian University, Rostov State Medical University, Povolzhsky Research Institute of Production and Processing of Meat and Dairy Products, Russia  |
| Agritech-III-7055 | Biotechnology of starting culture capable of cholesterol metabolism                       | V I Ganina, A T Vasyukova, I I Ionova, N G Mashintseva and M A Golovin          | K.G. Razumovsky Moscow State University of technologies and management (the First Cossack University); Moscow State University of food production; OOO "FARMPARK», Moscow, Russia  |
| Agritech-III-7056 | Optimizing broiler diets using protein supplement and                                     | Volkova G S, Kuksova E V and Serba E M  | All-Russian research Institute of food biotechnology-branch of the Federal state budgetary institution of science of the Federal research center for nutrition, biotechnology and food safety, Moscow, Russia                                  |
| Agritech-III-7057 | The mathematical modeling of changes in grain moisture and heat loss on adsorption drying | I L Rogovskii, S P Stepanenko, A V Novitskii and V I Rebenko                    | National University of Life and Environmental Sciences of Ukraine, Kyiv, Ukraine; National Scientific Center "Institute of Mechanization   |

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Agriculture", Glevaha, Ukraine

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| Agritech-III-7058 | Removal of biofilms formed on ion-exchange membranes in ultrafiltration permeates of secondary dairy raw materials                            | S A Ryabtseva, Yu A Tabakova, A G Khramtsov, G S Anisimov, V A Kravtsov | Institute of Life Sciences, North-Caucasus Federal University, Stavropol, Russia   |
| Agritech-III-7059 | Chemical characterization of ethanol and vodka in Russia  | I M Abramova, M E Medrish, A G Romanova, D A Gavrilova and S V Pavlenko | All-Russian Research Institute of Food Biotechnology, Moscow, Russia   |
| Agritech-III-7060 | Towards the development of wheat extruded snacks with reduced gluten toxicity   | A Yu Sharikov, E M Serba, E N Sokolova, Yu A Borsheva, L V Rimareva     | Russian research institute of food biotechnology- a branch of Federal state budget institution of science «Federal research center of food, biotechnology and food safety  |
| Agritech-III-7061 | Financial risks of sustainable development of small agricultural enterprises assessed to ensure national food security                        | A V Glushchenko, M I Slozhenkina, E N Samedova and D A Mosolova         | Volga Region Research Institute of Manufacture and Processing of Meat-and-Milk Production, Volgograd State University, 400062, 100, University avenue, Volgograd, Russian Federation   |
| Agritech-III-7062 | Analysis of the impact of state support on the efficiency of agricultural production in the context of digitalization in the Volgograd region | A V Glushchenko, O A Kovalenko, M I Slozhenkina and D A Mosolova        | Volga Region Research Institute of Manufacture and Processing of Meat-and-milk Production, Volgograd, Russia.  |
| Agritech-III-7063 | Brine-ripened cheese enriched with vegetable ingredients: technology and quality  | V V Kryuchkova, I F Gorlov, K M Korneichuk, S N Belik and N I Mosolova  | Volga Region Research Institute of Manufacture and Processing of Meat-and-Milk Production, Volgograd, Volgograd State Technical University, Volgograd, Don State Agrarian University, Russia<br><br>4Rostov State Medical University, 344022, Rostov-on-Don, per. Nakhichevan, 29 Russia |

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| Agritech-III-7064 | Development of technology of choux pastry semi-finished product enriched with oyster mushroom powder     | A N Sapozhnikov, A V Kopylova, S A Krainov and I V Kveglis                                   | Novosibirsk State Technical University, Novosibirsk, Russia; Siberian Research and Technological Institute of Agricultural Production Processing, Siberian Federal Scientific Centre of Agro-Biotechnologies of the Russian Academy of Sciences, Krasnoobsk, Russia |
| Agritech-III-7065 | Genoprotective effects of probiotics   | E V Morgul, T S Kolmakova, S N Belik, I F Gorlov and M I Slozhenkina                         | Rostov State Medical University, Volga Region Research Institute of Manufacture and Processing of Meat-and-Milk Production, Russia  |
| Agritech-III-7066 | Influence of oligochitosans and highly molecular chitosan on <i>Lactobacillus Bulgaricus</i> cultivation | M I Shramko, A D Lodygin, I A Evdokimov, N V Sushinskaya and V P Kurchenko                   | North-Caucasian Federal University, Stavropol, Belorussian State University, Minsk, Belarus, A.N. Nesmeyanov Institute of Organoelement Compounds of Russian Academy of Sciences, Moscow, Russia  |
| Agritech-III-7067 | Soil-sedimentary sequences of lake depressions in the steppe zone of West Siberia (Russia)               | E N Smolentseva and D A Gavrilov   | Institute of Soil Science and Agrochemistry, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia  |
| Agritech-III-7068 | Biochemical assessment of berry crops as a source of production of functional food products              | Irina B Kirina, Fedor G Belosokhov, Larisa V Titova, Irina A Suraykina and Viktor F Pulpitow | Michurinsk State Agrarian University, Michurinsk, Russia  |
| Agritech-III-7069 | The influence of biodegradable polymer coated fertilizers on the agrochemical parameters of the soil     | I. M. Bamatov and D. M. Bamatov  | Chechen State University, Grozny State Oil Technical University named after Academician M. D. Millionshchikov, Grozny: Russia   |
| Agritech-III-7070 | The study of specific energy consumption in devices with controlled segregated flows                     | I A Korotkiy, E N Neverov, I B Plotnikov, K B Plotnikov and D V Donya                        | Kemerovo State University, Kemerovo   |
| Agritech-III-7071 | Use of vegetable and fruit powders in the production technology of functional food snacks                | Olga V Perfilova, Dmitry V Akishin, Vera F Vinnitskaya, Sergey I Danilin, Oksana V Ananyeva  | Michurinsk State Agrarian University, Michurinsk, Russia  |

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| Agritech-III-7072 | Development of enriched meat and vegetable semi-finished products chopped in a shell                                   | Hramova V N, Gorlov I F, Slozhenkina M I, Timofeeva A D, Hramova Ya I and A A Alekseev | Federal State Budgetary Educational Establishment of Higher Education "Volgograd State Technical University", Volga Scientific Research Institute of Production and Processing of Dairy and Beef Products, Volgograd, Don State Agrarian University, Rostov region, Persianovsky, Russian Federation |
| Agritech-III-7073 | Assessment of the impact of new complex feed additives in the production of rabbit meat                                | Gorlov I F, Semenova I A, Knyazhechenko O A, Mosolov A A and E V Karpenko              | Volga Region Research Institute of Manufacture and Processing of Meat-and-Milk Production, Volgograd, Russian Federation   |
| Agritech-III-7074 | Public-Private Partnership as an Instrument Ensuring Food Security of Penal Institutions                               | V Sedikh, Y Tishchenko, G Pyrchenkova, E Radchenko                                     | Federal State Research Institute of the Federal Penitentiary Service of the Russian Federation, Moscow, Academy of Management of the Ministry of Internal Affairs of Russia, Moscow  |
| Agritech-III-7075 | Jerusalem artichoke tubers for producing vegetable probiotic functional beverages with lactic acid bacteria            | V E Plotnikova, B A Karetkin, V I Panfilov   | D. Mendeleev University of Chemical Technology of Russia   |
| Agritech-III-7076 | Comparative analysis of economic and biological features of kalmyk and mongolian cattle breeds                         | Fedotova G V, Slozhenkina M I, Tsitsige, Natyrov A K and Erendzhenova M V              | Volga region research institute of manufacture and processing of meat-and-milk production, Volgograd State Technical University, Kalmyk state University named after B. B. Gorodovikov, Russian Federation   |
| Agritech-III-7077 | The effectiveness of crossing red steppe cattle with Anglers in order to increase the meat productivity of crossbreeds | I F Gorlov, M I Slozhenkina, G V Fedotova, A A Kaydulina and V S Grishin               | Povolzhsky Research Institute of Production and Processing of Meat and Dairy Products, Volgograd State Technical University  |
| Agritech-III-7078 | Development of low-calorie jelly for complex processing of dairy raw materials   | Korotkova A.A., Korotkova A.A., Pilipenko D.N., Obrushnikova L.F., S E Bozhkova        | Volgograd State Technical University, Volga Research Institute of Production & Processing of Meat & Dairy Products, Russia   |

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| Agritech-III-7079 | Practical and scientific basis for development of fermented bioproduct with dietary properties                    | M A Babich, A A Korotkova, V N Hramova, M I Slozhenkina and D S Bikus  | Department of Food Production Technology, Volgograd State Technical University, Volga Region Research Institute of Manufacture and Processing of Meat-and-Milk Production, Russian Federation                                       |
| Agritech-III-7080 | Protein feedstuff production based on microbial biomass   | I M Abramova, A O Soloviev, M V Turshatov, V A Krivchenko and V V Kononenko  | All-Russian Research Institute of Food Biotechnology - a branch of the Federal State Institution of Science "Federal Research Center for Nutrition, Biotechnology and Food Safety"  |
| Agritech-III-7081 | Development of creating computer programs method for multivariate optimization of functional meat product recipes | Aleksey Sergeevich Miroshnik, Marina Ivanovna Slozhenkina, Ivan Fiodorovich Gorlov, Darya Aleksandrovna Mosolova, Alexandr Leonidovich Ishevskiy | Volga Region Research Institute of Manufacture and Processing of Meat-And-Milk Production, Volgograd, Russia  |
| Agritech-III-7082 | Microstructural studies of muscle tissue of lamb of aboriginal breeds of the Volga region                         | Giro T M, Kulikovski A V, Giro V V and Mosolov A A   | N. I. Vavilov Saratov State Agrarian University, Saratov, Volga Region Research Institute of Manufacture and Processing of Meat-and-Milk Production, Volgograd , Russian Federation   |
| Agritech-III-7083 | Meat productivity and interior features of the different genotypes of the rams edilbaev breed                     | Gorlov I F, Slozhenkina M I, Shakhbazova O P, Radzhabov R G, Ivanova N V, Anisimova E Yu, Knyazhechenko O A                                      | Volga Region Research Institute of Manufacture and Processing of Meat-and-Milk Production, Volgograd, Don State Agrarian University, Rostov-on-Don, Russia  |
| Agritech-III-7084 | Behavioral response and genotypical features of grazing sheep in arid zone  | Ubushaev B S, Moroz N N, Natyrov A K, Bolaev B K   | Gorodovikov Kalmyk State University, Federal Scientific Center for Agroecology, Integrated Recycling and Protective Forrest Production of RAS, , Russian Federation   |
| Agritech-III-7085 | Influence of plant-based additives on the biological value of sausage products                                    | I F Gorlov, V V Lodianov, V A Barannikov, B N Gekhaev, O A Knyazhechenko and E A Struk   | Volga Region Research Institute of Manufacture and Processing of Meat-and-Milk Production, Volgograd, Don State Technical University, Rostov-on-Don, Don State Agrarian University, Rostov region, Persianovsky, Russian Federation |

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| Agritech-III-7086 | Technological aspects of growing winter wheat in arid conditions  | T V Ivanchenko, A V Belikina and I S Igolnikova                            | Federal Scientific Center for Agroecology, Complex Reclamation and Protective Forestation of the Russian Academy of Sciences, Volgograd, Russia   |
| Agritech-III-7087 | Development of effective substrates for growing <i>Hermetia illucens</i> larvae with a high protein content and assessment of the effect of the obtained zoocompost on phytonematode. | N A Ushakova, Zh V Udalova, S V Zinovieva and N Yu Garmash                 | A.N. Severtsov Institute of Ecology and Evolution of RAS, Moscow, Nemchinovka Federal research center, Moscow Province, Russia  |
| Agritech-III-7088 | Age, growth and maturation of the Sakhalin flounder <i>Limanda sakhalinensis</i> of the northern Sea of Okhotsk   | R R Yusupov, E A Metelev, A S Sergeev and V S Danilov                      | Institute of Biological Problems of the North, Far Eastern Branch of the Russian Academy of Sciences, Magadan, Russia; Magadan Branch of All-Russian Research Institute of Fisheries and Oceanography («MagadanNIRO»), Magadan, Russia  |
| Agritech-III-7089 | Evaluating the efficiency of Enzyme-enriched Enzymesporin probiotic feed additive and its impact on the productive properties of pigs in the fattening process                        | D V Trubnikov, A Yu Gorobets, E V Trubnikova, M I Kartashov and A S Belous | Kursk State Agricultural Academy named after I.I. Ivanov, Kursk, Russia; Genetics Scientific and Research Laboratory, Kursk State University, Kursk, Russia; Federal state budgetary research institution "All-Russian Scientific and Research Institute of Phytopathology", Bolshie Vyazmy Village, Russia |
| Agritech-III-7090 | Physiological and biochemical status of newborn piglets   | E S Tkacheva and I N Medvedev  | Vologda State Dairy Farming Academy named after N.V. Vereshchagin, Vologda, Russia; Russian State Social University, Moscow, Russia   |
| Agritech-III-7091 | Application efficiency of new raw materials in the production of flour confectionery products with increased nutritional value  | M A Yanova, A V Sharopatova, Yu F Roslyakov and V B Dzobelova              | Krasnoyarsk State Agrarian University   |
| Agritech-III-7092 | Vegetable ingredients in functional fermented milk products   | V V Kryuchkova, I F Gorlov, S N Belik and A S Kamlatsky                    | Volga Region Research Institute of Manufacture and Processing of Meat-and-Milk Production, Volgograd State Technical University, Volgograd, Rostov State Medical University, Rostov-  |

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| Agritech-III-7093 | Innovative Approaches to Obtaining Vegetable Sweetener  | I A Zobnina, G R Rybakova, I V Doiko G S Gulenkova and O Y Veretnova             | Siberian Federal University, Krasnoyarsk, Russia   |
| Agritech-III-7094 | Biological growth patterns to increase livestock meat productivity  | P S Kobylatsky, N V Shirokova, V A Karatunov, M I Slozhenkina and Tsitsige       | Don State Agrarian University, Persianovsky, Don State Agrarian University n.a. I.T. Trubilin, Krasnodar, Russia |
| Agritech-III-7095 | High-protein sublimated fish and vegetable based snacks   | N Yu Zarubin, N G Strokovaya, A N Roshchina, O V Bredikhina, T A Ignatova        | Russian Federal Research Institute Of Fisheries and Oceanography, Moscow, Russia                                 |
| Agritech-III-7096 | Thiabendazole vs difenoconazole in chemical control of seed-borne toxigenic fungi affecting wheat quality | K V Kukushkina, V V Keler, E N Eskova, E Ya Muchkina, S V Khizhnyak              | Krasnoyarsk State Agrarian University; Siberian Federal University, Krasnoyarsk, Russia                          |
| Agritech-III-7097 | Biocenosis of cold-water and warm-water biofilter in recirculating aquaculture system                     | A L Nikiforov-Nikishin, D L Nikiforov-Nikishin, N I Kochetkov and P Yu Tatarenko | Moscow State University of Technology and Management them. K.G. Razumovsky (PKU), Moscow, Russia                 |