



**Tyutyuma Natalya Vladimirovna**

Doctor of Agricultural Sciences,  
Professor of the Russian Academy of  
Sciences, Director of the FGBNU  
"Caspian Agrarian Federal Scientific  
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Sciences

Tyutyuma N.V. provides overall direction of research and development (R&D) on the development of theoretical background, technologies and technical means for the sustainable functioning of reclamation, water management, agroforestry, forestry complexes, ensuring high productivity and ecological stability of agricultural landscapes, preserving soil fertility, protecting them from degradation and desertification in the context of technogenesis, global and regional climate changes.

Tyutyuma N.V. is a co-author of the Programs "Development of Measures on the Implementation of a Comprehensive Program of Land Reclamation in Astrakhan Region", "Introduction of Innovative Promising Types of Irrigation, Agrotechnical Assessment and Economic Efficiency of their Application", " Grain and Fodder Seed Farming", "Development and Introduction the Elements of Innovative Technologies for Growing Rice into Production", " Pasture Crops Seed Farming", "Practical Recommendations on the Onion Seed Farming System with Drip Irrigation under Arid Conditions of Astrakhan Region".

Also, with her participation, fundamental developments have been carried out in the field of adaptive-landscape systems of agriculture and rational use of nature resources, the development of low-cost, moisture-energy-saving environmentally friendly technologies for cultivating crops and soil in agrolandscape farming systems, ecological restoration and increasing the productivity of degraded pasture ecosystems, monitoring the impact of agroecosystems on ecological state of the territory of the Volga-Akhtuba floodplain, comprehensive studies of succession processes in natural grass stands under the influence of livestock load and the processes of their self-restoration, development of environmental technologies for restoring natural resource potential and increasing the productivity of arid territories, the purpose of which is to ensure sustainable development of rural municipality based on high technologies and rational use of natural resources.

A method of using the recovering regime as a phytomeliorative method of biological recultivation of disturbed agricultural lands has been developed,

valuable species of pasture shrubs, semi-shrubs and perennial grasses, their physiological characteristics, resistance to abiotic, competitive and operational stress for use in the restoration of pasture lands have been studied

With the direct supervision and participation of Tyutyum N.V. the scientific, both regional, all-Russian and international events are held annually, such as International scientific and practical conferences "Scientific and Production Support for the Development of Complex Reclamation of the Caspian region"; "Problems of Desertification and Protection of Biological Diversity of Natural Complexes in Arid Regions of Russia", "Nature Formation in Agrarian Regions of Russia", International scientific and practical conferences of young scientists "Scientific and Technological Approaches in Agricultural Science Development", International scientific-practical conference "Urgent Problems of Increasing Productivity of Arid Territories"; scientific and practical seminar "Highly Productive Varieties and Hybrids of Vegetables and Potatoes from the Firm" SeDeK " for Peasant Farms in Astrakhan Region" and others.

Natalya Vladimirovna is an active participant in scientific conferences, seminars, meetings with the Governor and the Chairman of the Government of Astrakhan Region, the Ministry of Agriculture and Fishing Industry of Astrakhan Region, the Ministry of Science and Education of Astrakhan Region, International scientific and practical conferences, where she always makes scientific reports on urgent issues.

During the period of scientific and production activity Tyutyuma N.V. has published 377 scientific works, including 14 monographs, 28 methodological guidelines and textbooks and received 21 patents.

Tyutyuma N.V. is annually the head and supervisor for the preparation of scientific research projects by scientists of the Institute for the exhibitions "Golden Autumn", "Caspian Forum", as well as for receiving grants. Natalya Vladimirovna is a member of the Dissertation Council of Volgograd State Agrarian University, also being a professor at the Department of Soil Science and General Biology at Volgograd State Agrarian University, teaches and supervises graduate students. She is the Chairman of the State Attestation Commission at State Autonomous Educational Institution of Open Society "Chernoyarsk Provincial College".

During the period of scientific and practical activity under her leadership, 5 candidate and 1 doctoral dissertations, 8 diploma theses were prepared and defended, work with 2 doctoral and 3 candidate dissertations is underway.

For her scientific and social activities N.V. Tyutyuma was repeatedly awarded Certificates of Honor of the Russian Academy of Agricultural Sciences, the Governor of Astrakhan Region, the Council of Municipal Formation "Chernoyarsk District", the Ministry of Education and Science of Astrakhan Region, Volgograd

State Agrarian University, Caspian Scientific Research Institute of Arid Agriculture, and was also Honored with Commendation from the Ministry of Agriculture of the Russian Federation and the Honorary Badge of the Governor of Astrakhan region "For Professional Merits". In 2016 she was elected Professor of the Russian Academy of Sciences. She is an expert of the Russian Academy of Sciences, and registered in the Federal Register of Experts in Scientific and Technical Sphere.

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