

Curriculum Vitae Kondratenko Serhii Ivanovich

Date of birth: 11.10.1966

1. Education:

- Kharkiv O.M. Horkyi State University, specialty “Biophysicist. Teacher” (1983–1991)
- postgraduate study at the Institute of Vegetable and Melon growing, Kharkiv (1995–1997)

2. Scientific degree:

Doctor of Agricultural Sciences (“selection and seed growing”, 2019);
Senior Scientific Assistant (“plant selection”, 2007);
Candidate of Biological Sciences (“biotechnology”, 2004).



3. Teaching and research work

Institute of Vegetable and Melon growing NAAS:

Since 2021 – till present Head of the Department of Vegetable and Melon growing at the IVM NAAS;

Since 2021 – till present Scientific Supervisor of two tasks of the second level of Scientific research program for 2021-2025 at the National Academy of Agrarian Sciences of Ukraine «Vegetable and Melon growing»: 20.00.01.01.Ф «*Elaboration of methodology of creation the stress tolerant lines and sorts of solanaceous plants on the ground of induced mutagenesis and recombinogenesys by interspecific and intragroup hybridization*»; 20.00.01.20.П «*On the ground of the introduction of new genetic sources and selection of mutant gene pool for creation of competitive sorts and selective valuable lines of not widely spread types of vegetable plants with high adaptive potential and complex of valuable biological and economical characteristics*»;

2019 (since December till present) – Expert in accreditation of educational programs of State Agency in Assessment of higher education quality of Ministry of Education and Science of Ukraine by specialties 201 “Agronomics” and 162 “Biotechnology and Bioengineering”;

2019–2021 – Senior Lecturer of the Department of Biotechnology and Chemistry at Poltava State Agrarian Academy (part-time);

2016–2021 – leading research worker of Laboratory of Genetics, Genetic Resources and Biotechnology at the IVM NAAS;

2007–2016 – Head of the Department of Selection, Theoretical Fundamentals of Creation of Vegetable Plants Sorts and Hybrids at the IVM NAAS;

2007 (October–November) scientific training in studying course “Strengthening Food Safety Systems”, Course Organizer – Wageningen University & Research Centre in the Netherlands;

2003–2007 – Senior Scientific Assistant of the Laboratory of Plant and Genetic Resources, Applied Genetics and Biotechnology at the IVM NAAS;

2000–2003 – Head of the Laboratory of Biotechnology at the IVM NAAS;

1997–2000 – Scientific Assistant of the Laboratory of Biennial Plants Selection;
1995–1997 – Postgraduate student with discontinuing work;
1992–1995 – Associate Scientific Assistant of the Laboratory of Biotechnology;
1991–1992 – Engineer of the IInd category of the Laboratory of Vegetable Plants in open soil.

4. Main achievements and primary directions of scientific researches

Dedicated own scientific work to solving the line of actual questions in the sphere of vegetable growing. First of all, was analysed modern methodological base of providing the selective seed process of creation and reproduction of sorts and hybrids F₁ of the order of vegetable plants which has permanent demand in the market. These are such sorts as tomatoes, sweet pepper, eggplant, cucumber, capitated cabbage and leaf lettuce. Determined the key stages of selection process which demand substantial modification for the creation of outgoing material capable to realize in practice sort models and hybrids F₁ which are the most adaptative to growing conditions.

Offered new solutions of the problem of broadening the spectrum of genotypic changeability and acceleration of genetic stabilization of valuable outgoing material for vegetable plants selection. Improved the range of biotechnological methods of clone microreproduction and cellular selection *in vitro* of capitated cabbage, cucumber and sweet pepper. For enrichment of tomato gene pool, sweet pepper and eggplant by new embryonic plasma in work was used the optimized methods of interspecific hybridization. At the level of analytical and synthetical selection of tomato and leaf lettuce was developed effective and improved methods of physical and chemical mutagenesis. Was increased the methodological base of using the gametophyte of sweet pepper and cucumber for selection of valuable sources, resistant to стійких biotic and abiotic stresses.

During the work at the IVM NAAS directly formulated scientific tasks and organized its solution, took part in analysis of the results of experimental investigations, was a Head and responsible executor of scientific research programs. Under immediate participation at the IVM NAAS was restored the work of Biotechnology Laboratory, and were started molecular genetic researches.

Scientific researches became a part of branch complex programs “Vegetables of Ukraine – 2015”, “Vegetables of Ukraine – 2020”, DSTU 8667: 2016 “Vegetable crops. Molecular genetic method of sorts and hybrids identification”.

The results of many years researches are used in practical work by selectionists-practical workers on the ground of the following published works: «Methods of selection of vegetables and melons» (2001), «Seed growing and seed science of vegetables and melons» (2003), «Selection of vegetables» (2013), «Tomatto (genetic fundamentals of selection)» (2018), «Methodology-classifier of conducting the expertise of plant sorts coprib for difference, homogeneity and stability (DHS) of sowing lettuce» (2019), «Methodical recommendations on optimization of mutational selection of tomato (*L. esculentum* Mill.)» (2020), «Broadening of spectrum of genotype mutability of sowing lettuce by method of induced mutagenesis (methodical recommendations)» (2020) etc.

Scientific research results are realized in 231 scientific works, of which 5 are monographs, 14 are methodical recommendations. To the list of professional publications which are included to the A category – 4 articles in the list of Scopus and 1 article in the list of Web of science. Hirsch index 4. Obtained 18 author certificates for plant sorts, 27 patents of Ukraine for inventions and useful models.

5. Teaching activity

Within the limits of educational scientific program (ESP) “Agronomics” for training of higher education students at the third (educational scientific) level in the specialty “Agronomics” read lectures and conduct laboratory practical work by elective disciplines «Applied genetics of vegetables and melons» and «Selective and technological aspects of creation and growing of niche vegetables and melons» for postgraduate students of the Institute of Vegetable and Melon growing NAAS.

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Profile Google Academy:

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[LkFr6nEd6Px3xRZ9RWp2WIsTtqNXUCL52seyF6E6of_mF-o](https://scholar.google.com/citations?hl=ru&user=2w5jes4AAAAJ&view_op=list_works&gmla=AJsN-)

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