

## Curriculum Vitae: ScD Tsygankova Victoria Anatolyivna

**Current post (2014 - present):** Head of group of screening of synthetic compounds, Principal researcher, Department for Chemistry of Bioactive Nitrogen-Containing Heterocyclic Compounds, Institute of Bioorganic Chemistry and Petrochemistry, NAS, Ukraine

### Previous posts:

2000 - 2013 - Research assistant and Senior Staff Scientist, Department of Bioengineering, Institute of Bioorganic Chemistry and Petrochemistry, NAS, Ukraine;

1993 - 1997 - Research Assistant of Pharmacology Department, Institute of Gerontology, National Academy of Medical Sciences, Ukraine;

1997 – 2000 – Postdoctoral Biologist, Department of Molecular Genetics, Institute of Cell Biology and Genetic Engineering, NAS, Ukraine

1990 – 1993 – Pharmacist in Pharmacy № 79, Kiev.

### Education:

1997 - 2000 - **Post Graduate Student**, Institute of Cell Biology and Genetic Engineering of NAS of Ukraine;

1990 – **Master's Degree in Pharmacy**, National University of Pharmacy, Kharkov;

1984 – 1990 - **Student** of the National University of Pharmacy, Kharkov.

### Academic and Higher Qualifications

2014 – **Sci. Dr. Degree in Biotechnology**, Institute of Food Biotechnology and Genomics, NAS of Ukraine;

2014 - **Academic Status Principal researcher**, Institute of Bioorganic Chemistry and Petrochemistry, NAS, Ukraine;

2013 - **Academic Status Senior Staff Scientist in Biotechnology**, Institute of Food Biotechnology and Genomics, NAS of Ukraine;

Status

2004 - **Ph.D. Degree in Plant Physiology**, Institute of Plant Physiology and Genetics of NAS of Ukraine.

ORCID iD <https://orcid.org/0000-0002-8036-6488>

ResearcherID: J-3558-2018

Publons: <https://publons.com/a/1294089>

[researcherid.com/rid/J-3558-2018](https://researcherid.com/rid/J-3558-2018)

<https://bpci.academia.edu/VictoriaTsygankova>

<https://scholar.google.com.ua/citations?user=hDZtSNwAAAAJ&hl=uk>

[https://www.researchgate.net/profile/V\\_Tsygankova/contributions](https://www.researchgate.net/profile/V_Tsygankova/contributions)

**Specialization Keywords:** Plant Biology, Plant Physiology, Plant Growth Regulation, New Plant Growth Regulating Substances, Agricultural Biotechnology and Nanobiotechnology, Molecular Biology, Molecular Biotechnology, RNA Interference (RNAi) technology, Genetics, Gene Expression and Regulation, Genetic Engineering, Plant Pathology, Plant Protection, Bioorganic Chemistry.

**Research interests:** The creation of new effective and ecologically safe plant growth regulators of synthetic and natural origin and study of the physiological, biochemical and molecular-genetic aspects of their action on accelerating growth of agricultural plants, improving of crop productivity and increasing of plant resistance to pathogenic and parasitic organisms (bacteria, fungi, nematodes and insect-pests) and stress-factors of

environment (drought, cold, heat, soil contamination etc.) by the way of inducing of RNA interference (RNAi) process in the plant cells.

### **Recent grants:**

2018 – 2021 – project "Screening for new plant growth regulators among azoles, azines and their condensed derivatives" (confirmed by the decision of Presidium of the National Academy of Sciences of Ukraine from 30.05.17, No 4);

2015 - 2019 - project "Obtaining cell lines of agricultural plants with increased resistance to pathogenic and parasitic organisms by inducing of RNA interference process using bioregulators of microbial origin" of the complex interdisciplinary program of the scientific researches of the National Academy of Sciences of Ukraine "Molecular and cellular biotechnology for medicine, industry and agriculture" on 2015-2019 years (confirmed by the decision of Presidium of the National Academy of Sciences of Ukraine from 11.02.15, No. 22);

2015 – 2017 – project "Screening for specific plant growth regulators among derivatives of aza-heterocycles and acyclic compounds containing phosphorus" (confirmed by the decision of Presidium of the National Academy of Sciences of Ukraine from 20.05.14, No 5);

2010 - 2015 – STCU, project P-490 "Application of new biopreparations with nematicidal and plant regulating effect in cultivation technologies of cereal, vegetable, and other crops" of National Academy of Sciences of Ukraine;

2010 - 2014 - project "Molecular bases of creation of biologically active and ecologically safe preparations with bioprotective and immune-modulating properties" of the complex interdisciplinary program of the scientific researches of the National Academy of Sciences of Ukraine "Fundamentals of molecular and cellular biotechnology" (confirmed by the decision of Presidium of the National Academy of Sciences of Ukraine from 07.07.10, No. 222);

2010 – 2014 – project "Obtaining plants resistant to diseases and adverse environmental factors, using tissue culture methods, genetic and chemical engineering" (confirmed by the decision of Presidium of the National Academy of Sciences of Ukraine from 23.06.10, No 4);

2010 - 2012 - project "Use of small regulatory dsRNA to improve plant resistance to pathogenic microorganisms" program of scientific research of the Ukraine" Biomass as a fuel "(confirmed by the decision of Presidium of the National Academy of Sciences of Ukraine from 23.06.10, No. 199).

### **Recent invited presentations**

2018 – 2<sup>nd</sup> International Conference on Innovations in Natural Science and Engineering, Sakarya University, Turkey and National Technical University of Ukraine "Kyiv Polytechnic Institute" (NTUU "KPI"), Kyiv, Ukraine;

2018 - 4<sup>th</sup> International Scientific Conference «Modern Plant Biology: Theoretical and Applied Aspects», V.N. Karazin Kharkiv National University, Kharkiv, Ukraine;

2018 - 4<sup>th</sup> International Symposium on EuroAsian Biodiversity (SEAB2018), Institute of Cell Biology and Genetic Engineering (NASU) and Taras Shevchenko National University, Kyiv, Ukraine;

2017 - IX International conference in chemistry Kyiv-Toulouse (ICKT-9), Taras Shevchenko National University, Kyiv;

2016 - I International Scientific Conference. Microbiology and Immunology – the Development Outlook in the 21st century, Taras Shevchenko National University, Kyiv;

2016 - 22<sup>nd</sup> International Conference on Plant Growth Substances, Toronto, Canada;

2016 - 43<sup>rd</sup> Annual Meeting of the Plant Growth Regulation Society of America, Sheraton Raleigh Hotel, Raleigh, North Carolina;

2015 - 2<sup>nd</sup> World Congress on the use of Biostimulants in Agriculture, Florence Convention Centre, Italy;

2015 - II Konferencja Naukowa "Biostymulatory w nowoczesnej uprawie roślin" / pod honorowym patronatem J.M. Rektora SGGW prof. dr hab. Alojzego Szymanskiiego, Warszawa, Poland.

### **Professional activities**

2014 – present - Member of the Academic Councils D 26.254.01 and D26.002.28 on considering PhD and SciDr theses at the Institute of Food Biotechnology and Genomics, National Academy of Sciences of Ukraine, and at the National Technical University of Ukraine "Kyiv Polytechnic Institute" (NTUU "KPI");

2016 – present – Member of the Expert Commission, Reviewer of grant proposals for the State Scientific Institution "State Institute of Scientific, Technical and Innovative Expertise" Kyiv, Ukraine.

### **Professional affiliations**

Member of American Society Plant Biologists (ASPB); Ukrainian Society of Geneticists and Breeders; International Society for Development and Sustainability (ISDS); Management and Advisory Board (MAB) Member of the SciDoc Publishers; Editorial Advisory Board Member (EABM) of Book division of Sciencedomain International; Editor in Chief of the International Journal of ChemTech Research; Co-editor in Chief for Journal "Advances in Environmental Biology"; Academic Editor of Asian Journal of Research and Review in Agriculture; Editorial Board Member of Journals: Editorial Board Member of Journal of RNA and Genomics (**Scopus**), International Journal of Medical Biotechnology & Genetics (IJMBG), Journal of Agricultural Science and Technology A & Journal of Agricultural Science and Technology B, Journal "Bioscience and Bioengineering"; "International Journal of Plant & Soil Science"; "Asian Journal of Soil Science and Plant Nutrition", Journal of Agricultural Science and Research (JASR), Journal of Medicinal Plants Studies, SciFed Journal of Plant Physiology, Integrative Food Sciences & Nutrition, Journal "Food Science & Nutrition Technology" (FSNT), Journal of Environment and Bio Research, Journal of Environmental and Analytical Toxicology, Enliven: Journal of Genetic, Molecular and Cellular Biology, Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences, Chemistry Research Journal, International Journal of Biotechnology and Bioengineering, Journal "Innovative Techniques in Agriculture", Journal Of Advances In Biology, Journal of Advances in Agriculture, Australian Journal of Pharmaceutical Biology (AJPB), Journal "Advance research in agriculture and organic farming", International Journal for Pharmaceutical Research Scholars (IJPRS), Journal of Advancements in Plant Science (JAPS), Journal "Innovative Biosystems and Bioengineering", Journal of Microbiology and Laboratory Science (JMLS), "Journal of Food Science and Engineering", International Journal of Development and Sustainability (IJDS), Asian Journal of Biotechnology and Genetic Engineering, Asian Plant Research Journal, "Asian Journal of Plant and Soil Sciences", Current Trends on Biostatistics & Biometrics (CTBB), Current Trends on Biotechnology & Microbiology (CTBM), MedCrave Online Journal of Research & Reviews, International Journal of Latest Research In Science and Technology; Madridge Journal of Bioinformatics and Systems Biology (MJBSB); Madridge Journal of Agriculture and Environmental Sciences (MJAES); Journal of Genetic Engineering and Biotechnology Research; Modern Approaches in Drug Designing (MADD); Journal "Series of Botany and Environmental Science"; Journal "Genetic Disease Study"; Region-Research Journal of Genetic Engineering; International Journal of Drug Research and Technology; Open Journal of Bioscience Research (OJBR); Reviewer of Journal "Environmental Research" (**Elsevier**); Member of International Association of Service Users of Google Scholar, Academy Mendeley, Academia.edu, ResearchGate, Publons Academy.

**Awards:** For outstanding scientific achievements and contribution in the development of Biological Sciences ScD Victoria Anatolyivna Tsygankova biography has been included in the Who's Who in the World 2014 (31st Edition), 2015 (32nd Edition), 2016 (33rd Edition), 2017 (34th Edition), 2018 (35th Edition), in the "2000 Outstanding Intellectuals of the 21st Century" (8-th and 9th Editions), and in the Who's Who in Science and Engineering 2016-2017 (12th Edition). ScD Victoria Anatolyivna Tsygankova has been selected to receive prestigious [2018 Albert Nelson Marquis Lifetime Achievement Award](#) as a result of her hard work and dedication to her profession. ScD

Victoria Anatolyivna Tsygankova and all author's collective (Iutynska G.O., Volkogon V.V., Kurdish I.K., Fedorenko V.A., Gonchar M.V., Tsygankova V.A., Belyavska L.A., Smutok O.V.) were awarded the **State Prize of Ukraine in the field of science and technology in 2018** for the scientific work "**Biologically active substances of microbial synthesis in new biotechnologies and modern agricultural production**".

Link to the website of the **Committee of the State Prizes of Ukraine in science and technology**:

<http://www.kdpu-nt.gov.ua/en/work/biologically-active-substances-microbial-synthesis-new-biotechnologies-and-modern-agricultural->

ScD Victoria Anatolyivna Tsygankova was awarded in 2018 **the honors NAS of Ukraine "For professional achievements" and medal on the occasion of the 100<sup>th</sup> anniversary of NAS of Ukraine**.

### **Student supervision**

**1 Phd Student** is preparing her thesis;

**2 MSc students** of the National Technical University of Ukraine "Kyiv Polytechnic Institute" (NTUU "KPI"), all received first class marks for their projects.

### **ScD Victoria Tsygankova: Recent Publications**

(full list at <https://bpci.academia.edu/VictoriaTsygankova>;

<https://scholar.google.com.ua/citations?user=hDZtSNwAAAAJ&hl=uk>;

[https://www.researchgate.net/profile/V\\_Tsygankova/contributions](https://www.researchgate.net/profile/V_Tsygankova/contributions))

### **Address (Office):**

Institute of Bioorganic Chemistry and Petrochemistry of National Academy of Sciences of Ukraine, 1, Murmanskaya str, Kyiv-94, 02660, Ukraine; Tel. +38(044) 558-53-88; Fax +38(044) 573-25-52; E-mail: [vtsygankova@ukr.net](mailto:vtsygankova@ukr.net); [victoria\\_biotex@i.ua](mailto:victoria_biotex@i.ua).

### **List of last publications (2006 - 2018)**

1. Tsygankova V.A., Galkina L.A., Synytsa A.D. Triamelon – a new effective inductor of organogenesis in plant tissue culture in vitro. (2006). Journal of Organic and Pharmaceutical Chemistry. V4, Issue 2 (14). P. 78–80.  
<http://dspace.nbu.gov.ua/handle/123456789/42138>  
[https://www.academia.edu/4345414/Triamelon\\_as\\_new\\_effective\\_inductor\\_of\\_plant\\_organogenesis\\_in\\_vitro](https://www.academia.edu/4345414/Triamelon_as_new_effective_inductor_of_plant_organogenesis_in_vitro)
2. Tsygankova V. A., Musatenko L. I., Galkina L. O., Galkin A. P., Ponomarenko S. P., Sytnik K. M., Eakin D.E. (2008). THE PECULIARITY OF GROWTH REGULATOR ACTION ON GENE EXPRESSION IN CELL OF EMBRYO OF SEEDS IN EARLY POSTEMBRYOGENESIS. Biotechnologia acta. V.1, № 2. P. 81 – 92. (In Russ.).  
[https://www.academia.edu/3844361/Article\\_Molecular\\_mechanisms\\_of\\_PGRs\\_action\\_in\\_early\\_plant\\_postembryogenesis](https://www.academia.edu/3844361/Article_Molecular_mechanisms_of_PGRs_action_in_early_plant_postembryogenesis) (In Engl.)
3. Tsygankova V.A., Musatenko L.I., Ponomarenko S.P., Galkina L.O., Andrushevich Ja.V. Galkin A.P. (2010). CHANGE OF FUNCTIONALLY ACTIVE CYTOPLASMICAL mRNA POPULATIONS IN PLANT CELLS UNDER GROWTH REGULATORS ACTION AND BIOLOGICAL PERSPECTIVES OF CELL FREE SYSTEMS OF PROTEIN SYNTHESIS. Biotechnologia acta. V. 3, № 2. P. 19 – 32.  
[http://biotechnology.kiev.ua/storage/2010/2\\_2010/Tsygankova%232\\_2010.pdf](http://biotechnology.kiev.ua/storage/2010/2_2010/Tsygankova%232_2010.pdf)
4. Tsygankova V.A. (2010). Concerning the peculiarities of gene expression changes in plant leaf cells during twenty-four-hour period. Biotechnologia acta. V.3, №4. P. 86 – 95.  
[http://biotechnology.kiev.ua/storage/2010/4\\_2010/Tsygankova%20%234\\_2010.pdf](http://biotechnology.kiev.ua/storage/2010/4_2010/Tsygankova%20%234_2010.pdf)
5. Tsygankova V.A., Galkin A.P., Galkina L.O., Musatenko L.I., Ponomarenko S.P., Iutynska H.O. Gene expression under regulators' stimulation of plant growth and development. In "New plant growth regulators: basic research and technologies of application" / eds. S.P. Ponomarenko, H.O. Iutynska. K.: Nichlava, 2011. P. 94 – 160.
6. Tsygankova V.A., Stefanovska T. R., Andrushevich Ya. V., Ponomarenko S. P., Galkin A.P., Blume Ya. B. INDUCTION OF si/miRNA BIOSYNTHESIS WITH ANTIPATHOGENIC



AND ANTIPARASITIC PROPERTIES BY GROWTH REGULATORS IN PLANT CELLS. (2012). *Biotechnologia acta*. V.5, № 3. P. 62–74.

[https://www.academia.edu/5191958/Growth\\_Regulators\\_as\\_Inductors\\_of\\_Synthesis\\_of\\_Antipathogenic\\_si\\_miRNA\\_in\\_Plant\\_Cells](https://www.academia.edu/5191958/Growth_Regulators_as_Inductors_of_Synthesis_of_Antipathogenic_si_miRNA_in_Plant_Cells)

7. Tsygankova V.A., Stefanovska T.R., Galkin A.P., Ponomarenko S.P., Blume Ya.B. (2012). Inducing effect of PGRs on small regulatory si/miRNA in resistance to sugar beet cyst nematode. *Comm. Appl. Biol. Sci., Ghent University (Belgium)*. V. 77/4. P. 779 - 788. [https://www.academia.edu/3406861/Inducing\\_effect\\_of\\_new\\_plant\\_regulators\\_on\\_synthesis\\_antipathogenic\\_small\\_siRNA\\_and\\_miRNA](https://www.academia.edu/3406861/Inducing_effect_of_new_plant_regulators_on_synthesis_antipathogenic_small_siRNA_and_miRNA)  
[https://www.researchgate.net/publication/271012977\\_INDUCING\\_EFFECT\\_OF\\_PGRS\\_ON\\_SMALL\\_REGULATORY\\_simiRNA\\_IN\\_RESISTANCE\\_TO\\_SUGAR\\_BEET\\_CYST\\_NEMATODE](https://www.researchgate.net/publication/271012977_INDUCING_EFFECT_OF_PGRS_ON_SMALL_REGULATORY_simiRNA_IN_RESISTANCE_TO_SUGAR_BEET_CYST_NEMATODE)
8. Tsygankova V.A., Ponomarenko S. P., Hrytsaenko Z. M. (2012). Increase of plant resistance to diseases, pests and stresses with new biostimulants. *Acta Horticulturae: I WorldCongress on the Use of Biostimulants in Agriculture*. Strasburg (France). 2012; 1009:225-233. <http://agris.fao.org/agris-search/search.do?recordID=US201400150177>  
[http://www.academia.edu/3406881/New\\_plant\\_biostimulants\\_as\\_effective\\_bioprotectors](http://www.academia.edu/3406881/New_plant_biostimulants_as_effective_bioprotectors)  
[https://www.researchgate.net/publication/269053573\\_Increase\\_of\\_Plant\\_Resistance\\_to\\_Diseases\\_Pests\\_and\\_Stresses\\_with\\_New\\_Biostimulants](https://www.researchgate.net/publication/269053573_Increase_of_Plant_Resistance_to_Diseases_Pests_and_Stresses_with_New_Biostimulants)
9. Tsygankova V.A., Ponomarenko S.P., Galkin A.P., Yemets A.I. (2012). THE GROWTH REGULATOR CHARKOR AS INDUCTOR OF BIOMASS ACCUMULATION IN THE CHICORY «HAIRY ROOTS» CULTURES - PRODUCERS OF POLYFRUCTANS. *Biotechnologia acta*. V.5, № 4. P. 65–74. (In Ukr.).  
[http://www.academia.edu/3406854/Increase\\_of\\_polyfructans\\_synthesis\\_by\\_new\\_plant\\_growth\\_regulator\\_Charkor](http://www.academia.edu/3406854/Increase_of_polyfructans_synthesis_by_new_plant_growth_regulator_Charkor)
10. Tsygankova V.A., Andrusevich Ya.V., Ponomarenko S.P., Galkin A.P., and Blume Ya.B. (2012). Isolation and Amplification of cDNA from the Conserved Region of the Nematode *Heterodera schachtii* 8H07 Gene with a Close Similarity to Its Homolog in Rape Plants. *Cytology and Genetics*. V.4, № 6. P. 335 - 341.  
<http://link.springer.com/article/10.3103%2FS0095452712060114>  
[https://www.academia.edu/3406894/Cloning\\_of\\_the\\_antinematode\\_si\\_miRNA](https://www.academia.edu/3406894/Cloning_of_the_antinematode_si_miRNA)
11. Tsygankova V.A., Yemets A.I., Lutynska H.O., Biliavska L.O., Galkin A.P., Blume Ya.B. (2013). Increasing the resistance of rape plants to the parasitic nematode *Heterodera schachtii* using RNAi technology. *Cytology and Genetics*. V.47, № 4. P. 222 - 230.  
<http://link.springer.com/article/10.3103/S0095452713040105#/page-1>  
[http://www.academia.edu/4344993/Increasing\\_of\\_plant\\_resistance\\_to\\_nematodes\\_using\\_RNAi-technology](http://www.academia.edu/4344993/Increasing_of_plant_resistance_to_nematodes_using_RNAi-technology)
12. Tsygankova V.A., Yemets A.I., Ponomarenko S.P., Matvieieva A.N., Chapkevich S.E., Kuchuk N.V. (2013). Increase in the synthesis of polyfructan in the cultures of chicory “hairy roots” with plant natural growth regulators. *Int. J. BioMedicine*. V.3, №2. P. 139 - 144.  
[http://www.ijbm.org/articles/3\\_2\\_Biotech2.pdf](http://www.ijbm.org/articles/3_2_Biotech2.pdf)
13. Tsygankova V.A., Yemets A.I., Blume Ya.B. Role Small Regulatory RNAs in Increase of Rape Plants Tolerance to Parasitic Nematode *Heterodera schachtii*. Abstracts of the Satellite Meeting "Post-transcriptional Gene Regulation in Plants". Rhode Island, USA, 2013. P. 42.  
[https://www.academia.edu/13527958/Abstract\\_No.\\_53.\\_Role\\_Small\\_Regulatory\\_RNAs\\_in\\_Increase\\_of\\_Rape\\_Plants\\_Tolerance\\_to\\_Parasitic\\_Nematode\\_Heterodera\\_schachtii](https://www.academia.edu/13527958/Abstract_No._53._Role_Small_Regulatory_RNAs_in_Increase_of_Rape_Plants_Tolerance_to_Parasitic_Nematode_Heterodera_schachtii)
14. Tsygankova V.A., Lutynska G.A., Galkin A.P., Blume Ya.B. (2014). Impact of New Natural Biostimulants on Increasing Synthesis in Plant Cells of Small Regulatory si/miRNA with High Anti-Nematodic Activity. *Internat. J. Biol.* V.6, № 1. P. 48 - 64.  
<http://www.ccsenet.org/journal/index.php/ijb/article/view/30388>
15. Tsygankova V.A., Biliavska L.O., Andrusevich Ya.V., Bondarenko O.N., Galkin A.P., Babich O.A., Kozyritska V.E., Lutynska G.O., Blume Ya.B. (2014). Impact of New Microbial PR/PGP Inducers on Increase of Resistance to Parasitic Nematode of Wild and RNAi Transgenic Rape Plants. *Advances in Bioscience and Bioengineering*. V.2, № 1. P. 66 - 103.  
<http://infinitypress.info/index.php/abb/article/view/887/405>
16. Tsygankova V.A., Lutynska G.A. Genetic Mechanisms of New Natural Biostimulants' action on Increase of Plant Resistance to Parasitic Nematodes. Annual Scientific Meeting of the American Society of Plant Biologists, July 12-16, 2014, Portland Oregon Conference. P. 286-287.  
[https://www.researchgate.net/publication/295908749\\_Genetic\\_Mechanisms\\_of\\_New\\_Natural\\_Biostimulants%27\\_Action\\_on\\_Increase\\_of\\_Plant\\_Resistance\\_to\\_Parasitic\\_Nematodes](https://www.researchgate.net/publication/295908749_Genetic_Mechanisms_of_New_Natural_Biostimulants%27_Action_on_Increase_of_Plant_Resistance_to_Parasitic_Nematodes)
17. Tsygankova V.A., Ponomarenko S.P., Stefanovska T.R., Galkin A.P., Blume Ya.B. RNAi-Mediated Action of Biostimulants on Increase of Resistance of Sugar Beet and Rape Plants to Parasitic Nematode *Heterodera schachtii* Third International Conference of CIS IHSS on Humic Innovative

Technologies Tenth International Conference daRostim «Humic Substances and Other Biologically Active Compounds in Agriculture» HIT-daRostim-2014. November 19 - 23, 2014, Lomonosov Moscow State University, Moscow, Russia. – P. 62-63.

[https://www.researchgate.net/publication/269038594\\_RNAi-](https://www.researchgate.net/publication/269038594_RNAi-Mediated_Action_of_Biostimulants_on_Increase_of_Resistance_of_Sugar_Beet_and_Rape_Plants_to_Parasitic_Nematode_Heterodera_schachtii)

[Mediated Action of Biostimulants on Increase of Resistance of Sugar Beet and Rape Plants to Parasitic Nematode \*Heterodera schachtii\*](https://www.researchgate.net/publication/269038594_RNAi-Mediated_Action_of_Biostimulants_on_Increase_of_Resistance_of_Sugar_Beet_and_Rape_Plants_to_Parasitic_Nematode_Heterodera_schachtii)

18. Tsygankova V.A., Stefanovska T.R., Andrusevich Ya.V., Ponomarenko S.P., Yemets A.I., Grigorik I.O., Blume Ya.B. (2015). RNAi-mediated effect of biostimulant Regoplant in protection of common horse chestnut of *Aesculus* L. genus against damaging action of horse chestnut leaf miner *Cameraria ohridella* Deschka & Dimic. J. of Biol. and Nature. V. 4, № 1. P. 19 - 38. [https://www.academia.edu/15067854/RNAi-MEDIATED\\_EFFECT\\_OF\\_BIOSTIMULANT\\_REGOPLANT\\_IN\\_PROTECTION\\_OF\\_COMMON HORSE CHESTNUT OF \*Aesculus\* L. GENUS AGAINST THE DAMAGING ACTION OF HORSE CHESTNUT LEAF MINER \*Cameraria ohridella\* DESCHKA and DIMIC](https://www.academia.edu/15067854/RNAi-MEDIATED_EFFECT_OF_BIOSTIMULANT_REGOPLANT_IN_PROTECTION_OF_COMMON_HORSE_CHESTNUT_OF_Aesculus_L_GENUS_AGAINST_THE_DAMAGING_ACTION_OF_HORSE_CHESTNUT_LEAF_MINER_Cameraria_ohridella_DESCHKA_and_DIMIC)
19. Tsygankova V.A. Genetic Control and Phytohormonal Regulation of Plant Embryogenesis. Int. J. Med. Biotechnol. Genetics (IJMBG). 2015. V.3, № 1. P. 9 - 20. <http://scidoc.org/IJMBG-2379-1020-03-101.php>
20. Tsygankova V.A. Ponomarenko S.P., Babayants O.V. Biostimulants Stimpo and Regoplant: New High Tech in Agriculture Abstr. of the 2nd World Congress on the use of Biostimulants in Agriculture. 16th - 19th November, 2015. Florence Convention Centre, Italy. P. 225. [https://www.academia.edu/19679435/P159\\_A26\\_Biostimulants Stimpo and Regoplant New High Tech in Agriculture](https://www.academia.edu/19679435/P159_A26_Biostimulants_Stimpo_and_Regoplant_New_High_Tech_in_Agriculture)
21. Tsygankova V.A., Ponomarenko S.P., Hrytsaenko Z.M. Biostimulants Stimpo and Regoplant: New Hi-Tech in Agriculture Abstr. Of II Konferencja Naukowa “Biostymulatory w nowoczesnej uprawie roślin” / pod honorowym patronatem J.M. Rektora SGGW prof. dr hab. Alojzego Szymanskiiego, 25 - 26 lutego 2015. Warszawa, 2015. P. 98.
22. Biliavska L.O., Tsygankova V.A., Kozyriska V.E., Iutynska G.O., Andrusevich Ya.V., Babich O.A., Galkin A.P., Blume Ya.B. (2016). Application of New Microbial Plant Resistance/Plant Growth Protection Inducers for Increasing Chinese cabbage Plant Tolerance against Parasitic Nematode *Heterodera schachtii* Schmidt. Int. J. Res. Biosciences. V.5, №2. P. 64 - 82. (GIF (Global Impact and Quality Factor): 0.765). [https://www.academia.edu/24968815/Application\\_of\\_new\\_microbial\\_plant\\_resistance\\_plant\\_growth\\_protection\\_inducers\\_for\\_increasing\\_Chinese\\_cabbage\\_plant\\_tolerance\\_against\\_parasitic\\_nematode \*Heterodera schachtii\* Schmidt](https://www.academia.edu/24968815/Application_of_new_microbial_plant_resistance_plant_growth_protection_inducers_for_increasing_Chinese_cabbage_plant_tolerance_against_parasitic_nematode_Heterodera_schachtii_Schmidt)
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