Curriculum vitae: Alexander Ignatov

Address

Shemyakin–Ovchinnikov Institute of bioorganic chemistry RAS, Moscow, Russia

Contacts

https://www.ibch.ru/en/users/1188

Teaching

2015–to date	Moscow	RUDN University	Plant Bacterial Diseases

IBCh positions

2025–to date	Leading research fellow	
2022–2023	Leading research fellow	
2021–2021	Senior research fellow	

Language Proficiency

Russian, English

Scientific interests

plant bacterial disease, bacterial taxonomy, Xanthomonas, Pseudomonas, Curtobacterium, Clavibacterium, Dickeya, Pectobacterium, Pantoea, Erwinia

Scientific societies' membership

American Society of Phytopathology

Titles

	Doctor of Science (Biological sciences)

Publications

1. Filatova MS, Evseev PV, **Ignatov AN**, Asmaeva PV, Chaplin AV, Miroshnikov KA (2026). Type-Strain-Anchored Phylogenomics Reveals Taxonomic Discordance and Functional Variation in Agrobacterium. *Int J Mol Sci* 27 (20), 9210, 10.3390/ijms27209210
2. Vasilyeva AA, Evseev PV, **Ignatov AN**, Dzhalilov FS (2024). Pectobacterium punjabense Causing Blackleg and Soft Rot of Potato: The First Report in the Russian Federation. *Plants (Basel)* 13 (15), 2144, 10.3390/plants13152144
3. Tarakanov RI, Evseev PV, Vo HTN, Troshin KS, Gutnik DI, **Ignatov AN**, Toshchakov SV, Miroshnikov KA, Jafarov IH, Dzhalilov FS (2024). Xanthomonas Phage PBR31: Classifying the Unclassifiable. *Viruses* 16 (3), 406, 10.3390/v16030406
4. Tokmakova AD, Tarakanov RI, Lukianova AA, Evseev PV, Dorofeeva LV, **Ignatov AN**, Dzhalilov FS, Subbotin SA, Miroshnikov KA (2024). Phytopathogenic Curtobacterium flaccumfaciens Strains Circulating on Leguminous Plants, Alternative Hosts and Weeds in Russia. *Plants (Basel)* 13 (5), , 10.3390/plants13050667
5. Evseev P, Lukianova A, Tarakanov R, Tokmakova A, Popova A, Kulikov E, Shneider M, **Ignatov A**, Miroshnikov K (2023). Prophage-Derived Regions in Curtobacterium Genomes: Good Things, Small

Packages. *Int J Mol Sci* 24 (2), 1586, 10.3390/ijms24021586
6. Tarakanov RI, Lukianova AA, Pilik RI, Evseev PV, Miroshnikov KA, Dzhalilov FS, Tesic S, **Ignatov AN** (2022). First report of Curtobacterium flaccumfaciens pv. flaccumfaciens causing bacterial tan spot of soybean in Russia. *PLANT DIS* 107 (7), 2211, 10.1094/PDIS-08-22-1778-PDN
7. Pilik RI, Tesic S, **Ignatov AN**, Tarakanov RI, Dorofeeva LV, Lukianova AA, Evseev PV, Dzhalilov FS, Miroshnikov KA (2022). First Report of Curtobacterium flaccumfaciens pv. flaccumfaciens Causing Bacterial Wilt and Blight on Sunflower in Russia. *PLANT DIS* 107 (5), 1621, 10.1094/PDIS-05-22-1203-PDN
8. Lukianova AA, Evseev PV, Shneider MM, Dvoryakova EA, Tokmakova AD, Shpirt AM, Kabilov MR, Obraztsova EA, Shashkov AS, **Ignatov AN**, Knirel YA, Dzhalilov FS, Miroshnikov KA (2022). Pectobacterium versatile Bacteriophage Possum: A Complex Polysaccharide-Deacetylating Tail Fiber as a Tool for Host Recognition in Pectobacterial Schitoviridae. *Int J Mol Sci* 23 (19), , 10.3390/ijms231911043
9. Tarakanov RI, Lukianova AA, Evseev PV, Pilik RI, Tokmakova AD, Kulikov EE, Toshchakov SV, **Ignatov AN**, Dzhalilov FS, Miroshnikov KA (2022). Ayka, a Novel Curtobacterium Bacteriophage, Provides Protection against Soybean Bacterial Wilt and Tan Spot. *Int J Mol Sci* 23 (18), , 10.3390/ijms231810913
10. Tarakanov RI, Lukianova AA, Evseev PV, Toshchakov SV, Kulikov EE, **Ignatov AN**, Miroshnikov KA, Dzhalilov FSU (2022). Bacteriophage Control of Pseudomonas savastanoi pv. glycinea in Soybean. *Plants (Basel)* 11 (7), , 10.3390/plants11070938
11. Evseev P, Lukianova A, Tarakanov R, Tokmakova A, Shneider M, **Ignatov A**, Miroshnikov K (2022). Curtobacterium spp. and Curtobacterium flaccumfaciens: Phylogeny, Genomics-Based Taxonomy, Pathogenicity, and Diagnostics. *Curr Issues Mol Biol* 44 (2), 889–927, 10.3390/cimb44020060
12. Lukianova AA, Evseev PV, Stakheev AA, Kotova IB, Zavriev SK, **Ignatov AN**, Miroshnikov KA (2021). Quantitative Real-Time PCR Assay for the Detection of Pectobacterium parmentieri, a Causal Agent of Potato Soft Rot. *Plants (Basel)* 10 (9), , 10.3390/plants10091880
13. Miroshnikov KA, Evseev PV, Lukianova AA, **Ignatov AN** (2021). Tailed lytic bacteriophages of soft rot pectobacteriaceae. *Microorganisms* 9 (9), , 10.3390/microorganisms9091819
14. Bugaeva EN, Voronina MV, Vasiliev DM, Lukianova AA, Landyshev NN, **Ignatov AN**, Miroshnikov KA (2021). Use of a specific phage cocktail for soft rot control on ware potatoes: A case study.*Viruses* 13 (6), , 10.3390/v13061095
15. **(conference)** Lukianova A, Evseev P, Tokmakova A, **Ignatov A**, Miroshnikov K (2021). Analysis of updated Pectobacteriaceae sequences highlights the need for taxonomy revisions. , 320–324, 10.1109/CSGB53040.2021.9496039
16. **(conference)** Evseev PV, Landysheva YG, Landyshev NN, **Ignatov AN** (2021). Presence of rRNA-like regions in Genbank viral sequences. , 310–314, 10.1109/CSGB53040.2021.9496035
17. Lukianova AA, Evseev PV, Stakheev AA, Kotova IB, Zavriev SK, **Ignatov AN**, Miroshnikov KA (2021). Development of qPCR Detection Assay for Potato Pathogen Pectobacterium atrosepticum Based on a Unique Target Sequence. *Plants (Basel)* 10 (2), 1–13, 10.3390/plants10020355
18. Evseev PV, Lukianova AA, Shneider MM, Korzhenkov AA, Bugaeva EN, Kabanova AP, Miroshnikov KK, Kulikov EE, Toshchakov SV, **Ignatov AN**, Miroshnikov KA (2020). Origin and Evolution of Studiervirinae Bacteriophages Infecting Pectobacterium: Horizontal Transfer Assists Adaptation to New Niches. *Microorganisms* 8 (11), 1–27, 10.3390/microorganisms8111707
19. **(conference)** Evseev P, **Ignatov A**, Miroshnikov K (2020). Bioinformatic basis to define the species formation within Pectobacterium and Dickeya bacterial genera. , 47–52, 10.1109/CSGB51356.2020.9214693
20. Shneider MM, Lukianova AA, Evseev PV, Shpirt AM, Kabilov MR, Tokmakova AD, Miroshnikov KK, Obraztsova EA, Baturina OA, Shashkov AS, **Ignatov AN**, Knirel YA, Miroshnikov KA (2020). Autographivirinae Bacteriophage Arno 160 Infects Pectobacterium carotovorum via Depolymerization of the Bacterial O-Polysaccharide. *Int J Mol Sci* 21 (9), , 10.3390/ijms21093170
21. Lukianova AA, Shneider MM, Evseev PV, Shpirt AM, Bugaeva EN, Kabanova AP, Obraztsova EA,

Miroshnikov KK, Senchenkova SN, Shashkov AS, Toschakov SV, Knirel YA, **Ignatov AN**, Miroshnikov KA (2020). Morphologically Different Pectobacterium brasiliense Bacteriophages PP99 and PP101: Deacetylation of O-Polysaccharide by the Tail Spike Protein of Phage PP99 Accompanies the Infection. *Front Microbiol* 10, 3147, 10.3389/fmicb.2019.03147

22. Voronina MV, Bugaeva EN, Vasiliev DM, Kabanova AP, Barannik AP, Shneider MM, Kulikov EE, Korzhenkov AA, Toschakov SV, **Ignatov AN**, Miroshnikov KA (2019). Characterization of Pectobacterium carotovorum subsp. carotovorum Bacteriophage PP16 Prospective for Biocontrol of Potato Soft Rot. *Microbiology* 88 (4), 451–460, 10.1134/S0026261719040118
23. Voronina MV, Kabanova AP, Shneider MM, Korzhenkov AA, Toschakov SV, Miroshnikov KK, Miroshnikov KA, **Ignatov AN** (2019). First report of pectobacterium carotovorum subsp. Brasiliense causing blackleg and stem rot disease of potato in Russia. *PLANT DIS* 103 (2), 364, 10.1094/PDIS-03-18-0456-PDN
24. Kabanova AP, Shneider MM, Korzhenkov AA, Bugaeva EN, Miroshnikov KK, Zdorovenko EL, Kulikov EE, Toschakov SV, **Ignatov AN**, Knirel YA, Miroshnikov KA (2019). Host Specificity of the Bacteriophage PP35 Is Directed by a Tail Spike Interaction With Bacterial -Antigen, Enabling the Infection of Alternative Non-pathogenic Bacterial Host. *Front Microbiol* 9 (JAN), 3288, 10.3389/fmicb.2018.03288
25. Ngoc Ha VT, Voronina MV, Kabanova AP, Shneider MM, Korzhenkov AA, Toschakov SV, Miroshnikov KK, Miroshnikov KA, **Ignatov AN** (2019). First report of pectobacterium parmentieri causing stem rot disease of potato in Russia. *PLANT DIS* 103 (1), 144, 10.1094/PDIS-11-17-1829-PDN
26. **Ignatov AN**, Spechenkova NA, Taliansky M, Kornev KP (2019). First report of clavibacter michiganensis subsp. Michiganensis infecting potato in Russia. *PLANT DIS* 103 (1), 147, 10.1094/PDIS-04-18-0691-PDN
27. Kabanova A, Shneider M, Bugaeva E, Ha VTN, Miroshnikov K, Korzhenkov A, Kulikov E, Toschakov S, **Ignatov A**, Miroshnikov K (2018). Genomic characteristics of vB_PpaP_PP74, a T7-like Autographivirinae bacteriophage infecting a potato pathogen of the newly proposed species Pectobacterium parmentieri. *Arch Virol* 163 (6), 1691–1694, 10.1007/s00705-018-3766-1
28. Shneider MM, Kabanova AP, Korzhenkov AA, Miroshnikov KK, Vo Thi NH, Toshchakov SV, Miroshnikov KA, **Ignatov AN** (2018). Draft genome sequence of Pectobacterium atrosepticum PB72 and complete genome sequence of the specific bacteriophage PP90. *Genome Announc* 6 (27), , 10.1128/genomeA.00473-18
29. **Ignatov AN**, Panycheva JS, Spechenkova N, Taliansky M (2018). First report of Clavibacter michiganensis subsp. sepedonicus infecting sugar beet in Russia. *PLANT DIS* 102 (12), 2634, 10.1094/PDIS-04-18-0693-PDN
30. Shirshikov FV, Korzhenkov AA, Miroshnikov KK, Kabanova AP, Barannik AP, **Ignatov AN**, Miroshnikov KA (2018). Draft genome sequences of new genomospecies. *Genome Announc* 6 (15), e00260–18, 10.1128/genomeA.00260-18
31. Sultanov RI, Arapidi GP, Vinogradova SV, Govorun VM, Luster DG, **Ignatov AN** (2016). Comprehensive analysis of draft genomes of two closely related pseudomonas syringae phylogroup 2b strains infecting mono- and dicotyledon host plants. *BMC Genomics* 17 (Suppl 14), 1010, 10.1186/s12864-016-3358-y