

# Stanford

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### Publications

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#### PUBLICATIONS

- **Novel Derivatives of Quinoxaline-2-carboxylic Acid 1,4-Dioxides as Antimycobacterial Agents: Mechanistic Studies and Therapeutic Potential.** *Pharmaceuticals (Basel, Switzerland)*  
Frolova, S. G., Vatlin, A. A., Maslov, D. A., Yusuf, B., Buravchenko, G. I., Bekker, O. B., Klimina, K. M., Smirnova, S. V., Shnakhova, L. M., Malyants, I. K., Lashkin, A. I., Tian, X., Alam, et al  
2023; 16 (11)
- **Kanamycin and Ofloxacin Activate the Intrinsic Resistance to Multiple Antibiotics in *Mycobacterium smegmatis*.** *Biology*  
Vatlin, A. A., Bekker, O. B., Shur, K. V., Ilyasov, R. A., Shatrov, P. A., Maslov, D. A., Danilenko, V. N.  
2023; 12 (4)
- **MSMEG\_1963 and MSMEG\_5597 Genes, but Not inhA, Modulate *Mycobacterium smegmatis* Resistance to Tryptanthrins** *RUSSIAN JOURNAL OF GENETICS*  
Frolova, S. G., Danilenko, V. N., Maslov, D. A.  
2022; 58 (9): 1051-1058
- **Arabinosyltransferase C Mediates Multiple Drugs Intrinsic Resistance by Altering Cell Envelope Permeability in *Mycobacterium abscessus*** *MICROBIOLOGY SPECTRUM*  
Wang, S., Cai, X., Yu, W., Zeng, S., Zhang, J., Guo, L., Gao, Y., Lu, Z., Hameed, H., Fang, C., Tian, X., Yusuf, B., Chhotaray, et al  
2022: e0276321
- **Synthesis and Characterization of Novel 2-Acyl-3-trifluoromethylquinoxaline 1,4-Dioxides as Potential Antimicrobial Agents** *PHARMACEUTICALS*  
Buravchenko, G. I., Maslov, D. A., Alam, M., Grammatikova, N. E., Frolova, S. G., Vatlin, A. A., Tian, X., Ivanov, I. V., Bekker, O. B., Kryakvin, M. A., Dontsova, O. A., Danilenko, V. N., Zhang, et al  
2022; 15 (2)
- **Repurposing Based Identification of Novel Inhibitors against MmpS5-MmpL5 Efflux Pump of *Mycobacterium smegmatis*: A Combined In Silico and In Vitro Study** *BIOMEDICINES*  
Shahbaaz, M., Maslov, D. A., Vatlin, A. A., Danilenko, V. N., Grishina, M., Christoffels, A.  
2022; 10 (2)
- **Characterization of Genetic Variants Associated with Rifampicin Resistance Level in *Mycobacterium tuberculosis* Clinical Isolates Collected in Guangzhou Chest Hospital, China** *INFECTION AND DRUG RESISTANCE*  
Hameed, H., Fang, C., Liu, Z., Ju, Y., Han, X., Gao, Y., Wang, S., Chiwala, G., Tan, Y., Guan, P., Hu, J., Xiong, X., Peng, et al  
2022; 15: 5655-5666
- **Sterilizing Effects of Novel Regimens Containing TB47, Clofazimine, and Linezolid in a Murine Model of Tuberculosis.** *Antimicrobial agents and chemotherapy*  
Yu, W., Yusuf, B., Wang, S., Tian, X., Hameed, H. M., Lu, Z., Chiwala, G., Alam, M. S., Cook, G. M., Maslov, D. A., Zhong, N., Zhang, T.  
2021; 65 (10): e0070621
- **Transcriptomic Profile of *Mycobacterium smegmatis* in Response to an Imidazo[1,2-b][1,2,4,5]tetrazine Reveals Its Possible Impact on Iron Metabolism.** *Frontiers in microbiology*  
Vatlin, A. A., Shitikov, E. A., Shahbaaz, M., Bespiatykh, D. A., Klimina, K. M., Christoffels, A., Danilenko, V. N., Maslov, D. A.  
2021; 12: 724042
- **Identification of Mutations Conferring Tryptanthrin Resistance to *Mycobacterium smegmatis*.** *Antibiotics (Basel, Switzerland)*  
Frolova, S. G., Klimina, K. M., Kumar, R., Vatlin, A. A., Salunke, D. B., Kendrekar, P., Danilenko, V. N., Maslov, D. A.

2020; 10 (1)

● **Transcriptomic dataset of *Mycolicibacterium smegmatis* exposed to an imidazo[1,2-b][1,2,4,5]tetrazine.** *Data in brief*

Vatlin, A. A., Klimina, K. M., Frolova, S. G., Danilenko, V. N., Maslov, D. A.

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● **Transcriptional regulation of drug resistance mechanisms in *Salmonella*: where we stand and what we need to know.** *World journal of microbiology & biotechnology*

Shaheen, A., Tariq, A., Shehzad, A., Iqbal, M., Mirza, O., Maslov, D. A., Rahman, M.

2020; 36 (6): 85

● **MmpS5-MmpL5 Transporters Provide *Mycobacterium smegmatis* Resistance to imidazo[1,2-b][1,2,4,5]tetrazines.** *Pathogens (Basel, Switzerland)*

Maslov, D. A., Shur, K. V., Vatlin, A. A., Danilenko, V. N.

2020; 9 (3)

● **Draft Genome Sequences of *Mycobacterium tuberculosis* Clinical Isolates from the Ural Region of Russia That Carry the pks15/1 Gene.** *Microbiology resource announcements*

Shur, K. V., Zakharevich, N. V., Akimova, N. I., Yunes, R. A., Frolova, S. G., Maslov, D. A., Danilenko, V. N.

2019; 8 (49)

● **Sequencing and Analysis of Three *Mycobacterium tuberculosis* Genomes of the B0/N-90 Sublineage.** *Microbiology resource announcements*

Zakharevich, N. V., Zaychikova, M. V., Shur, K. V., Bekker, O. B., Maslov, D. A., Danilenko, V. N.

2019; 8 (39)

● **Synthesis and antimycobacterial activity of imidazo[1,2-b][1,2,4,5]tetrazines.** *European journal of medicinal chemistry*

Maslov, D. A., Korotina, A. V., Shur, K. V., Vatlin, A. A., Bekker, O. B., Tolshchina, S. G., Ishmetova, R. I., Ignatenko, N. K., Rusinov, G. L., Charushin, V. N., Danilenko, V. N.

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● **Draft Genome Sequences of 12 *Mycolicibacterium smegmatis* Strains Resistant to Imidazo[1,2-b][1,2,4,5]Tetrazines.** *Microbiology resource announcements*

Vatlin, A. A., Shur, K. V., Danilenko, V. N., Maslov, D. A.

2019; 8 (16)

● **Mutations in Efflux Pump Rv1258c (Tap) Cause Resistance to Pyrazinamide, Isoniazid, and Streptomycin in *M. tuberculosis*.** *Frontiers in microbiology*

Liu, J., Shi, W., Zhang, S., Hao, X., Maslov, D. A., Shur, K. V., Bekker, O. B., Danilenko, V. N., Zhang, Y.

2019; 10: 216

● **Genetic Aspects of Drug Resistance and Virulence in *Mycobacterium tuberculosis*** RUSSIAN JOURNAL OF GENETICS

Shur, K. V., Bekker, O. B., Zaichikova, M. V., Maslov, D. A., Akimova, N. I., Zakharevich, N. V., Chekalina, M. S., Danilenko, V. N.

2018; 54 (12): 1385-1396

● **MYCOBACTERIUM TUBERCULOSIS: DRUG RESISTANCE, VIRULENCE AND POSSIBLE SOLUTIONS** BULLETIN OF RUSSIAN STATE MEDICAL UNIVERSITY

Danilenko, V. N., Zaychikova, M., Dyakov, I. N., Shur, K., Maslov, D. A.

2018: 5-12

● **COMPILATION OF THE MYCOBACTERIUM TUBERCULOSIS BEIJING-B0 LINEAGE SAMPLE AND IDENTIFYING PREDICTORS OF IMMUNE DYSFUNCTION IN SOURCE PATIENTS** BULLETIN OF RUSSIAN STATE MEDICAL UNIVERSITY

Shur, K., Umpeleva, T., Bekker, O. B., Maslov, D. A., Zaychikova, M., Vakhrusheva, D. V., Danilenko, V. N.

2018: 23-28

● **WHOLE-GENOME SEQUENCING AND COMPARATIVE GENOMIC ANALYSIS OF MYCOBACTERIUM SMEGMATIS MUTANTS RESISTANT TO IMIDAZO[1,2-b][1,2,4,5]TETRAZINES, ANTITUBERCULOSIS DRUG CANDIDATES** BULLETIN OF RUSSIAN STATE MEDICAL UNIVERSITY

Maslov, D. A., Bekker, O. B., Shur, K., Vatlin, A. A., Korotina, A., Danilenko, V. N.

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● **Tuberculostatic Activity of 2-Amino-6-Chloropurine Derivatives** PHARMACEUTICAL CHEMISTRY JOURNAL

Krasnov, V. P., Vigorov, A., Gruzdev, D. A., Levit, G. L., Kravchenko, M. A., Skornyakov, S. N., Bekker, O. B., Maslov, D. A., Danilenko, V. N., Charushin, V. N.

2017; 51 (9): 769-772

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- **AMINOPYRIDINE- AND AMINOPYRIMIDINE-BASED SERINE/THREONINE PROTEIN KINASE INHIBITORS ARE DRUG CANDIDATES FOR TREATING DRUG-RESISTANT TUBERCULOSIS BULLETIN OF RUSSIAN STATE MEDICAL UNIVERSITY**  
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2017: 38-43
- **Resistance to pyrazinamide in Russian *Mycobacterium tuberculosis* isolates: pncA sequencing versus Bactec MGIT 960. *Tuberculosis (Edinburgh, Scotland)***  
Maslov, D. A., Za#chikova, M. V., Chernousova, L. N., Shur, K. V., Bekker, O. B., Smirnova, T. G., Larionova, E. E., Andreevskaya, S. N., Zhang, Y., Danilenko, V. N.  
2015; 95 (5): 608-12
- **Synthesis and activity of (+)-usnic acid and (-)-usnic acid derivatives containing 1,3-thiazole cycle against *Mycobacterium tuberculosis* MEDICINAL CHEMISTRY RESEARCH**  
Bekker, O. B., Sokolov, D. N., Luzina, O. A., Komarova, N. I., Gatilov, Y. V., Andreevskaya, S. N., Smirnova, T. G., Maslov, D. A., Chernousova, L. N., Salakhutdinov, N. F., Danilenko, V. N.  
2015; 24 (7): 2926-2938
- **Draft Genome Sequences of Two Pyrazinamide-Resistant Clinical Isolates, *Mycobacterium tuberculosis* 13-4152 and 13-2459 GENOME ANNOUNCEMENTS**  
Maslov, D. A., Shur, K. V., Bekker, O. B., Zakharevich, N. V., Zaichikova, M. V., Klimina, K. M., Smirnova, T. G., Zhang, Y., Chernousova, L. N., Danilenko, V. N.  
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- **Draft Genome Sequence of *Mycobacterium tuberculosis* Strain E186hv of Beijing B0/W Lineage with Reduced Virulence GENOME ANNOUNCEMENTS**  
Shur, K. V., Klimina, K. M., Zakharevich, N. V., Maslov, D. A., Bekker, O. B., Zaychikova, M. V., Kamaev, E. Y., Kravchenko, M. A., Skornyakov, S. N., Zhang, Y., Danilenko, V. N.  
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- **Identification of phosphorylation sites in aminoglycoside phosphotransferase VIII from *Streptomyces rimosus* BIOCHEMISTRY-MOSCOW**  
Elizarov, S. M., Alekseeva, M. G., Novikov, F. N., Chilov, G. G., Maslov, D. A., Shtil, A. A., Danilenko, V. N.  
2012; 77 (11): 1258-1265