

## **JESSICA ROSE**

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### **EDUCATION**

*Freelance data analytics – 2020-present*

- *Immunology/Biochemistry/Pharmacology/Virology*  
*Duties: Analysis of pharmacovigilance databases*

*Post-Doc – Technion Institute of Technology 2016-2019*

- *Biochemistry/Protein Biology*  
*Research Topic: Molecular Dynamics and Experimental Studies on Type II ABC Importers and copper binding proteins*

*Visiting Senior Scientist – Weizmann Institute of Science 2016 Spring*

- *Immunology*  
*Subject: Intravital two-photon microscopy for visualization of the affinity maturation process in living mice*

*Post-Doc – Hebrew University of Jerusalem 2013-2015*

- *Molecular Biology*  
*Research topic: Epidemiological study of Rickettsia spp. transmitted by Ixodid ticks in Israel*

*Diploma – EurNegVec 2014*

- *Geographical Information Systems*  
*Course: Geospatial tools in Vector Research*

*Doctor of Philosophy (PhD) Computational Biology – Bar Ilan University 2008-2013*

- *Dissertation title: Kinetics of Chronic Human Viruses - Comparative Analysis of Bio-Mathematical Models and their Clinical Implications*

*Master of Science in Medicine (MSc) Medicine(Immunology) – Memorial University of Newfoundland and Labrador 2003-2006*

- *Thesis title: Dynamical Systems Analysis of HIV Immunopathogenesis and the Effects of Antiretroviral Treatment Interruption*

*Bachelor of Science (BSc) – Memorial University of Newfoundland and Labrador 1992-2002*

- *Applied Mathematics*

## SELECT PEER-REVIEWED PUBLICATIONS

Rose J, Hulscher N, McCullough PA. Determinants of COVID-19 vaccine-induced myocarditis. *Therapeutic Advances in Drug Safety*. **2024**;15. doi:10.1177/20420986241226566

DNA fragments detected in monovalent and bivalent Pfizer/BioNTech and Moderna modRNA COVID-19 vaccines from Ontario, Canada: Exploratory dose response relationship with serious adverse events. Speicher, D. J., Rose, J., Gutsch, L. M., Wiseman, D. M., McKernan, K. (**2023**, October 19). <https://doi.org/10.31219/osf.io/mjc97>

Ribosomal frameshifting and misreading of mRNA in COVID-19 vaccines produces “off-target” proteins and immune responses eliciting safety concerns: Comment on UK study by Mulrone et al. Wiseman, D. M., Gutsch, L. M., Speicher, D. J., Rose, J., McKernan, K. (**2023**, December 6). <https://doi.org/10.31219/osf.io/nt8jh>

The Novelty of mRNA Viral Vaccines and Potential Harms: A Scoping Review. (**2023**) Halma MTJ, Rose J, Lawrie T. J. *6*(2):220-235. <https://doi.org/10.3390/j6020017>.

Critical Appraisal of VAERS Pharmacovigilance: Is the U.S. Vaccine Adverse Events Reporting System (VAERS) a Functioning Pharmacovigilance System? (2021). J. Rose. *Science, Public Health Policy and the Law* (**2021**).

Titrateable transmembrane residues and a hydrophobic plug are essential for manganese import via the *Bacillus anthracis* ABC transporter MntBC-A. (2021). Kuznetsova A, Masrati G, Vigonsky E, Livnat-Levanon N, Rose J, Grupper M, Baloum A, Yang JG, Rees DC, Ben-Tal N, Lewinson O. *J Biol Chem*. **2021** Oct;297(4):101087. doi: 10.1016/j.jbc.2021.101087. Epub 2021 Aug 18. PMID: 34416234; PMCID: PMC8487065.

Distinct allosteric networks underlie mechanistic speciation of ABC transporters. (**2020**). Burçin Acar, Jessica Rose, Burcu Aykac Fas, Nir Ben-Tal, Oded Lewinson and Turkan Haliloglu. *Structure*, Volume 28, Issue 6, 651 - 663.e5.

Vitamin B12 import is all about timing. (**2018**). News and view by Lutz Schmitt *Nature Chem Biology*. *14*; 640–641.

Single-molecule probing of the conformational homogeneity of the ABC transporter BtuCD. (**2018**). Min Yang, Nurit Livnat Levanon, Burçin Acar, Burcu Aykac Fas, Gal Masrati, Jessica Rose, Nir Ben-Tal, Turkan Haliloglu, Yongfang Zhao and Oded Lewinson. *Nature Chem Biology*. *14*; 715–722.

Novel decay dynamics revealed for virus mediated drug activation in cytomegalovirus infection. (**2017**). Rose J, Emery VC, Kumar D, Asberg A, Hartmann A, Jardine AG, Bignamini AA, Humar A, Neumann AU. *PLoS Pathog*. *2017* May 10;13(5):e1006386.

Genetic characterization of spotted fever group rickettsiae in questing ixodid ticks collected in Israel and environmental risk factors for their infection. (2017). Rose J. et al. *Parasitology*. **2017** Jul;144(8):1088-1101.

The highly synergistic, broad spectrum, antibacterial activity of organic acids and transition metals. (**2017**) Zhitnitsky D, Rose J, Lewinson O. *Sci Rep*. *2017* Mar 15;7:44554.

L-glutamine Induces Expression of *Listeria monocytogenes* Virulence Genes. (2017) Haber A, Friedman S, Lobel L, Burg-Golani T, Sigal N, Rose J, Livnat-Levanon N, Lewinson O, Herskovits AA. *PLoS Pathog*. **2017** Jan 23;13(1):e1006161.

Kinetics of Chronic Human Viruses - Comparative Analysis of Bio-Mathematical Models and their Clinical Implications. (**2013**). Jessica Rose, Doctoral Thesis, Bar Ilan University, Ramat Gan, Israel.

Human Cytomegalovirus Kinetics Following Institution of Artesunate after Hematopoietic Stem Cell Transplantation. (2011). Wolf DG, Shimoni A, Resnick IB, Stamminger T, Neumann AU, Chou S, Efferth T, Caplan

O, Rose J, Nagler A, Marschall M. *Clinical Virology Unit, Hadassah Hebrew University Medical Center, Jerusalem, Israel. Antiviral Res.* **2011** Jun; 90(3): 183–186.

*Dynamical Systems Analysis of HIV Immunopathogenesis and the Effects of Antiretroviral Treatment Interruption.* (2006). Jessica Rose, Master's Thesis, Memorial University of Newfoundland, Canada.

### **RECENT PRESENTATIONS**

*Public Hearing Senate Brazil, Brasilia, Brazil (Remote), February 2024*

*United States Senate Hearing, Washington DC, United States, February 2024*

*International Crisis Summit (ICS) Washington DC, United States, February 2024*

*Croatian Parliament Symposium, Zagreb Croatia, December 2023*

*Public Hearing Senate Brazil (22<sup>nd</sup>), Brasilia, Brazil (Remote), November 2023*

*ICS Romanian Parliament Summit, Bucharest, Romania, November 2023*

*World Council For Health - Better Way Conference, Bath, England, June 2023*

*ICS European Union Summit, Brussels, Belgium, May 2023*

*International Conference on Overcoming Health Crises, Tallinn, Estonia, April 2023*

*National Citizen's Inquiry (NCI) Manitoba, Canada, April 2023*

*International conference on the COVID pandemic, Stockholm, Sweden, January 2023*

*International Conference on Pandemic/Health Management, Fatima, Portugal, October 2022*

*South African Vaccine Adverse Event Reporting System presentation (Remote) September 2022*

*Inaugural Better Way Conference presentation (Remote) Bath, England, May 2022*

*170<sup>th</sup> of the Vaccines and Related Biological Products Advisory Committee presentation (Remote) October 2021*

*167<sup>th</sup> of the Vaccines and Related Biological Products Advisory Committee presentation (Remote) September 2021*

### **REFERENCES**

*Available upon request*