

JESSICA ROSE

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EDUCATION

Freelance data analytics – 2020-present

- *Immunology/Biochemistry/Pharmacology/Virology*
Duties: Analysis of pharmacovigilance databases¹

Post-Doc – Technion Institute of Technology 2016-2020

- *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*

Coursework– Weizmann Institute of Science 2008

- *Computational Biology*
Courses: Molecular Biology and Immunology

¹ Data used by U.S. and Australian Senators Ron Johnson and Gerrard Rennick, former Premier of Newfoundland and Labrador Brian Peckford, European Members of Parliament Christine Anderson, Francesca Donato, Ivan Vilibor Sincic, Mislav Kolakusic and Christian Terhes, and U.S. Presidential Candidate Robert F. Kennedy and many others

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

PUBLICATIONS

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).

A Report on Myocarditis Adverse Events in the U.S. Vaccine Adverse Events Reporting System (VAERS) in Association with COVID-19 Injectable Biological Products. (2021). Rose, J. & McCullough P. *Current Problems in Cardiology*.

A Report on the US Vaccine Adverse Events Reporting System (VAERS) of the COVID-19 Messenger Ribonucleic Acid (mRNA) Biologicals. (2021). Rose, J. *Sci Publ Health Pol & Law* 2:59-80.

Titratable 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.

Intra-host cytomegalovirus gB genotype dynamics in patients with multiple infections. (Submitted to PLOS ONE for review.) Jessica Rose, Deepali Kumar, Anders Asberg, Anders Hartmann, Alan G Jardine, Angelo A Bignamin, Avidan Neumann, Atul Humar, Vincent C Emery.

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.

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.

Kinetic modeling of Hepatitis B Virus: the relationship between HBeAg and viral kinetics. Jessica Rose. Mina and Everard Faculty of Life Sciences, Bar Ilan University, Ramat Gan, Israel - in progress; manuscript to be submitted.

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.

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

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

International COVID Summit (ICS) 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

Better Way Conference, Vienna, Austria, September 2022

South African Vaccine Adverse Event Reporting System presentation, Remote, September 2022

Vaccine Safety Research Foundation presentation, Remote, September 2022

World Council For Health - Inaugural Better Way Conference presentation, Remote, Bath, England, May 2022

Vaccine Choice Canada presentation, Remote, January 2022

World Council for Health Presentation, Remote, December 2021

170th of the Vaccines and Related Biological Products Advisory Committee presentation, Remote, October 2021

Trial Site News presentation, Remote, September 2021

167th of the Vaccines and Related Biological Products Advisory Committee presentation, Remote, September 2021

Canadian COVID Care Alliance presentation, Remote, September 2021

Front Line COVID-19 Critical Care Alliance presentation, Remote, March 2021