

Curriculum Vitae

Jessica Rose

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ResearchGate: <https://www.researchgate.net/profile/Jessica-Rose-24> (624,099 reads)

Education

Technion Institute of Technology 2016-present

Post-Doc

Biochemistry/Protein Biology

Research Topic: Molecular Dynamics and Experimental Studies on Type II ABC Importers and copper binding proteins

Weizmann Institute of Science 2016 Spring

Visiting Senior Scientist Immunology

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

Hebrew University of Jerusalem 2013-2015

Post-Doc Molecular Biology

Research topic: Epidemiological study of Rickettsia spp. transmitted by Ixodid ticks in Israel

EurNegVec 2014

Diploma

Geographical Information Systems

Course: Geospatial tools in Vector Research

Bar Ilan University 2008-2013

Doctor of Philosophy (PhD)

Computational Biology

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

Weizmann Institute of Science 2008

Coursework

Computational Biology

Courses: Molecular Biology and Immunology

Memorial University of Newfoundland and Labrador 2003-2006

Master of Science in Medicine (MSc)

Medicine (Immunology)

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

Memorial University of Newfoundland and Labrador 1992-2002

Bachelor of Science (BSc)

Applied Mathematics

Wingate Institute 2011

Diploma

Outdoor Fitness Instructor/Surfing Instructor

Professional Experience and Training

September 2024-present	Senior Fellow Front Line COVID Care Alliance (FLCCC), Health and Immunology https://covid19criticalcare.com/experts/jessica-rose/
March 2021-present	Consult for Canadian COVID Care Alliance https://www.canadiancovidcarealliance.org/
April 2021-present	Consult for Vaccine Choice Canada https://vaccinechoicecanada.com/
April 2022-present	Consult for Voice for Science and Solidarity https://www.voiceforscienceandsolidarity.org/authors/jessica-rose
December 2023-present	Author and Fellow at Brownstone Institute https://brownstone.org/search-results/?_keywords=jessica%20rose&_author=328
January 2021-present	Pharmacovigilance data (VAERS) analysis https://jessicar.substack.com
March 2020-present	R Project for Statistical Computing
March 2020-present	Public Figure/Speaker (type “Jessica Rose VAERS” into any browser)
January 2019	Crystallography techniques, Technion, Israel
January 2018	Autodock and Modeller software for computational docking of small molecules for drug discovery, Technion/TAU, Israel
April 2017	Attended Molecular Dynamics Workshop, Boğaziçi Üniversitesi, Istanbul, Turkey.
November 2016	Nano Differential Scanning Fluorimetry (Nanodsf) training, Technion, Haifa, Israel.
April 2016	Live Imaging using 2-Photon Microscopy, Weizmann Institute, Rehovot, Israel.
November 2013 – June 2015	Molecular Analyst of Rickettsiae as Zoonotic Pathogens (Post-Doc Research), Koret Veterinary School of Medicine, Rehovot, Israel.
October 2008 - December 2012	CMV/HBV Clinical Data Analyst and Mathematical Modeler (PhD Research), Bar Ilan University, Ramat Gan, Israel.
June 2003 - September 2006	HIV Laboratory Researcher (MSc Research), The Health Sciences Centre, St. John’s, NL, Canada.
June 2004 - September 2006	Student Lab Researcher (MSc Research), Development and Optimization of Immunological Assays, The Health Sciences Centre, St. John’s, NL, Canada.
January 20, 2015	Geographical Information Systems (GIS) workshop, Hebrew University of Jerusalem, Jerusalem, Israel.
November 2014	GIS Training School: Geospatial tools in vector research, Naples, Italy.
May 2009	Workshop on Mathematical Modeling in Biology and Medicine at the Interuniversity Centre Dubrovnik, Dubrovnik, Croatia

Protein Biology (general): Protein purification using size exclusion chromatography (ÄKTA), surface plasmon resonance (BIAcore), Isothermal Titration Calorimetry (ITC), mutant strand synthesis, plasmid purification, gel electrophoresis, protein expression techniques including Western blot analysis, molecular techniques including DNA extraction, Polymerase Chain Reaction (PCR) both conventional and Real Time

Rickettsiology: Tick collection techniques and identification of Ixodid tick biotopes (2013-2015) and classification of Ixodid ticks by gender and species (2013), Real time PCR, Sequence analysis, Phylogenetic analysis

Advanced Immunological Methods: ELISpot, ELISA, Flow Cytometry, Confocal Microscopy, CTL assays, B-cell transformation

Radiation Safety Course: Radioisotope user permit (Canadian Nuclear Safety Commission)

Biosafety Level 3 lab training: Working with hazardous pathogens such as HIV and Hepatitis C

Safety training for Chemical and Biological Research

First Aid/CPR: Magen David Adom

Outdoor Fitness Instructor's Course

Surfing Instructor's Course

Certified Member of the National Health and Fitness Program of the Canadian Society for Exercise Physiology (Certified Fitness Consultant - CFC)

Teaching and Mentorship

November 2024	<u>Instructor</u> , Immunology course online for Institute for Pure and Applied Knowledge (10 weeks)
March 2020-present	<u>Public Figure</u> , Hundreds of presentations and teaching/learning interviews (type "Jessica Rose VAERS" into any browser)
November 2018	<u>Mentoring and lab organization duties</u> , Technion, Haifa, Israel
February 2014 - June 2015	<u>Lab Demonstrator</u> , The Koret Veterinary School of Medicine, Hebrew University of Jerusalem, Rehovot, Israel
June 2004 - Sept. 2006	<u>Student Lab Demonstrator</u> , The Health Sciences Centre, St. John's, NL, Canada
Sept. 1999 - April 2001	<u>Undergraduate Teaching Assistant</u> , Department of Mathematics and Statistics, Memorial University of Newfoundland, St. John's, NL, Canada
Sept. 1992 - April 2000	<u>University Writing Centre Tutor</u> , Memorial University of Newfoundland, St. John's, NL, Canada
Sept. 1993 - April 1995	<u>University English as a Second Language Tutor</u> , Memorial University of Newfoundland, St. John's, NL, Canada

Publications

COVID-19 Modified mRNA “Vaccines”: Lessons Learned from Clinical Trials, Mass Vaccination, and the Bio-Pharmaceutical Complex, Part 2. Mead, M. & Seneff, Stephanie & Wolfinger, Russ & Rose, Jessica & Denhaerynck, Kris & Kirsch, Steve. (2024). International Journal of Vaccine Theory, Practice, and Research , 3(2), 1275-1344. <https://doi.org/10.56098/w66wjg87>

COVID-19 Modified mRNA “Vaccines”: Lessons Learned from Clinical Trials, Mass Vaccination, and the Bio-Pharmaceutical Complex, Part 1. (2024). Mead, M. & Seneff, Stephanie & Wolfinger, Russ & Rose, Jessica & Denhaerynck, Kris & Kirsch, Steve. (2024). International Journal of Vaccine Theory, Practice, and Research , 3(2), 1112-1178. <https://doi.org/10.56098/fdrasy50>

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

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 Mulroney et al. Wiseman, D. M., Gutschi, L. M., Speicher, D. J., Rose, J., McKernan, K. (2023). <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. (Currently in submission process). Burçin Acar^{1*}, Jessica Rose^{2*}, Burcu Aykac Fas¹, Nir Ben-Tal³, Oded Lewinson^{2**} and Turkan Haliloglu^{1**}. ¹Department of Chemical Engineering and Polymer Research Center, Bogazici University, Istanbul, Turkey. ²Department of Biochemistry and the Rappaport Institute for Medical Sciences, Faculty of Medicine, The Technion- Israel Institute of Technology, Haifa, Israel. ³Department of Biochemistry and Molecular Biology, George S. Wise Faculty of Life Sciences, Tel Aviv University, Tel Aviv 69978, Israel. *Equal contributions. **Equal supervision.

Vitamin B12 import is all about timing. (July 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. (July 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. (May 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. (March 2017) **Rose J**, Nachum-Biala Y, Mumcuoglu KY, Alkhamis MA, Ben-Nun A, Lensky I, Klement E, Nasereddin A, Abdeen ZA, Harrus S. *Parasitology*. 2017 Jul;144(8):1088-1101.

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

L-glutamine Induces Expression of Listeria monocytogenes Virulence Genes. (Jan 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. (April 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.

Kinetic 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.

Selected Presentations and Meetings

Spoken Testimony to Japanese Parliament, Tokyo, September 2024

Spoken Testimony to Brazilian Poder Legislativo Municipale (Remote), Brazil, September 2024

Third Congresso Mundial Médicos Pela Vida (Remote), Brazil, August 2024

The Second Sovereignty Summit, Sovereignty Coalition, (Remote video), July 2024

Inspired Network Summit, Rally and March of the People, Geneva, Switzerland, May-June 2024

National Citizen's Inquiry (NCI) Testimony, Saskatchewan, Canada (remote), May 2024

Brownstone Institute Retreat, Girona, Spain, April 2024

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 (22nd), 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) Testimony, Manitoba, Canada (Remote), 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) South Africa, September 2022

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

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

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

Jessica Rose (2018). Molecular dynamics of ABC transporters – defining allosteric pathways – presentation of latest published results.

Jessica Rose (2017). Molecular dynamics of ABC transporters – defining allosteric pathways. Meeting at Technion.

Jessica Rose (2015). Environmental risk factors for Spotted Fever Group Rickettsiae in Israel. ISRAEL SOCIETY FOR PARASITOLOGY,

Jessica Rose (2015). Rickettsia species detected in questing Rhipicephalus ticks in Israel: A comparative analysis. Short presentation of post-doctoral work at Faculty seminar series, Rehovot, Israel.

PROTOZOOLOGY AND TROPICAL DISEASES (2014) - Annual meeting.

Jessica Rose (2014). A short introduction to dynamical systems modeling. Short presentation of previous studies and the usefulness of ordinary differential equations modeling at Faculty seminar meeting, Rehovot, Israel.

Jessica Rose (2014). Epidemiological study of *Rickettsia* spp. transmitted by Ixodid ticks in Israel. Short presentation of post- doctoral work at NVHU annual meeting, Rehovot, Israel.

Jessica Rose (2014). Epidemiological study of *Rickettsia* spp. transmitted by Ixodid ticks in Israel. Short presentation of post- doctoral work at MERC annual meeting, Dead Sea, Israel.

Middle Eastern Regional Cooperation Program (MERC) annual meeting (2014). Dead Sea, Israel.

Jessica Rose (2013). Bio-Mathematical Modeling of CMV Intracellular dynamics with the anti-viral effect of Ganciclovir. Lecture at Tel Aviv University (Tal Pupko Lab Meeting), Tel Aviv, Israel.

Jessica Rose (2013). Bio-Mathematical Modeling of CMV Intracellular dynamics with the anti-viral effect of Ganciclovir. Guest lecturer at Tel Aviv University (Biomath Seminar Series), Tel Aviv, Israel.

Jessica Rose (2012). Mathematical Modeling of viral dynamics. Presentation at Hebrew University of Jerusalem (PDF application process), Ein Kerem, Israel.

Jessica Rose (2012). Bio-Mathematical Modeling of viral dynamics and clinical implications. Lecture at Bar Ilan University (Student/Faculty Seminar Series), Ramat Gan, Israel.

Jessica Rose (2010). Bio-Mathematical Modeling of Cytomegalovirus and Clinical Implications (Update). Lecture at Interuniversity Centre Dubrovnik, Dubrovnik, Croatia.

Jessica Rose (2009). Bio-Mathematical Modeling of Cytomegalovirus and Clinical Implications. Seminar at ITB Berlin, Germany.

Jessica Rose (2005). Mathematical Modeling of HIV Immunopathogenesis and the Effects of Antiretroviral Treatment Interruption. The Twelfth International Workshop on HIV Dynamics and Evolution, 2005 Abstracts.

Jessica Rose (2005). Mathematical Modeling of HIV Immunopathogenesis and the Effects of Treatment Interruption. Scientific Days, Memorial University of Newfoundland.

Honours and Awards

FIRST PLACE at PRO longboard event in Herzliyya, Israel – National champion female Longboarder - currently ranked third in country

PDF grant awarded for PDF position at Technion
PDF stipend awarded for PDF position at Hebrew University of Jerusalem
Bar Ilan University President's Scholarship – 'Outstanding PhD Degree Student' Certificate of Gratitude for teaching autistic children to surf
Zeta Zaltas Award (15th Annual Immunology Graduate Student Research Forum)
Honorable Mention (International MCM: The Mathematical Contest in Modeling), The Consortium of Mathematics and its Applications
Member of the Newfoundland and Labrador Literacy Coalition (youngest member ever invited)
Awarded 1st place in a National Video Competition to promote literacy sponsored by the United Nations

Extracurricular Activities, Volunteer Service and Leadership

Member of volunteer organization Plastic Free Israel Haifa
Free surfer
Freelance photographer
(June 2015) Surfing Instructor, Octopus Surf Club, Caesaria, Israel
(April 2010-2014) Surfing Instructor, Israel Surf Club, Tel Aviv, Israel (April 2012-2014) Teacher/trainer for autistic children
(April 2013) Resurf Project Volunteer - volunteered to help underprivileged kids learn to surf, Tel Aviv, Israel
(April 2012) Bustan PermaNegev program – volunteer worker in Bedouin village, Negev desert, Israel
(November 2011) Peace Conference, Jerusalem Inter-Cultural Center, Jerusalem, Israel
(2011) Eclipse (now Shelter) Recording/Rehearsal Space - volunteer builder
(2008-2014) Keyboard player in ALTNEULAND, independent rock band based out of Tel Aviv, Israel (2011-present) Independent electronic artist
(2008-2010) Capoeira student with Cordão De Ouro, Israel (2008) Introductory SCUBA diving course
(1992-1995) Volunteer hospital worker - worked with post-stroke elderly patients at Grace General Hospital in St. John's, Newfoundland, Canada

References

Senator Ron Johnson - <https://www.ronjohnson.senate.gov/>
Dr. Robert Malone - <https://www.rwmalonemd.com/>
Dr. Ryan Cole - <https://covid19criticalcare.com/experts/ryan-cole-md/>
Dr. Kat Lindley - <https://www.lindleymedical.com/>
Dr. Pierre Kory - <https://drpierrekory.com/>
Dr. Geert vanden Bossche - <https://totalityofevidence.com/dr-geert-vanden-bossche>
Prof. Oded Lewinson - <https://md.technion.ac.il/oded-lewinson/>
Prof. Vince Emery - <https://www.surrey.ac.uk/people/vince-emery>
Rebekah Barnett - <https://news.rebekahbarnett.com.au/about>
Katie Ashby-Koppins - <https://www.linkedin.com/in/katie-ashby-koppens-4010061b/>