

Curriculum Vitae

Name: **Theodor Chitlaru, PhD.**

Expertise: **Bacterial pathogens and human infectious diseases; Development of vaccines and pre-clinical efficacy studies; Bio-threat and bio-terror: detection/diagnostics, countermeasures and preparedness; Host-pathogen interactions and microbial virulence mechanisms**

Present position:

1. **Senior Scientist A+ (Full Professor equivalent)**
Department of Biochemistry and Molecular Genetics
Israel Institute for Biological Research, Ness-Ziona, Israel
<http://www.iibr.gov.il>
2. Senior Scientific Adviser
Life Science Research Israel, LTD (LSRI)
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Home address: (1) Smadar Ilit, Yavne'el, Lower Galilee
(2) Auman Israel 4, Rehovot

Personal status: Married, 3 children

Languages: Hebrew, English, Spanish, French, Romanian

Education:

1979-1982	B.Sc. Biology <u>The Hebrew University Jerusalem</u>
1983-1985	M.Sc. Immunology Department of Cell Biology, <u>The Weizmann Institute of Science, Rehovot</u>
1985-1990	Ph.D. Molecular Biology Department of Molecular Genetics and Virology, <u>The Weizmann Institute of Science, Rehovot</u>
1990-1994	Post-doctoral studies Department of Molecular Biology and Genetics <u>The Johns Hopkins Medical School, Baltimore</u>

<u>Other:</u>	1976-1979	Military service.
<u>Fellowships and awards:</u>	1990-1991	World Health Organization (WHO) -The International Agency for Cancer Research, Post-doctoral award.
	1992-1994	Howard Hughes Medical Institute Post-doctoral fellowship.
	2000; 2004; 2015	Israel Institute for Biological Research Distinction for Scientific accomplishments (3 times).

Past and present research positions

1994-1996	Visiting Scientist (1994-1995) and Scientific Adviser (1995-1996) Department of Molecular Biology The Weizmann Institute of Science, Rehovot
1995-1996	Researcher Life Science Research Israel Ltd. (LSRI), Ness Ziona
1996-today	Scientist Israel Institute for Biological Research 2000: Scientist B (Assistant Professor) 2009: Senior Scientist A (Associate Professor) Since 2019: Senior Scientist A+ (Full Professor)
2007-2008	Visiting Research Associate Scholar (sabbatical) Emory University Medical School, Atlanta USA Department of Microbiology and Immunology
2024-today	Scientific adviser, Life Science Research Israel Ltd. (LSRI), Ness Ziona
2022-today	Visiting Lecturer Department of Digital Medical Technologies HIT, Holon Institute of Technology

Teaching assignments

2022-2024	Medical Microbiology Course, (3 rd year Pre-med students) Department of Digital Medical Technologies HIT, Holon Institute of Technology, Israel Chapters in Infectious Diseases Avshalom Institute, Tel-Aviv, Israel
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Publications:

- 1 Rosenfeld, Ronit, Ron Alcalay, Yfat Yahalom-Ronen, Sharon Melamed, Avital Sarusi-Portuguez, Tal Noy-Porat, Ofir Israeli, Adi Beth-Din, Ronnie Blecher-Gonen, **Theodor Chitlaru**, and et al. **2025**. Efficient Identification of Monoclonal Antibodies Against Rift Valley Fever Virus Using High-Throughput Single Lymphocyte Transcriptomics of Immunized Mice. *Antibodies* 14, no. 1: 12. doi.org/10.3390/antib14010012.
- 2 Sharon Amit, David Gur, Moshe Aftalion, Asaf Biber, Paula David, Inbar Cohen-Gihon, Hila Cohen, Ron Alcalay, Galia Zaide, Ofir Israeli, Raphael Ber, Shahar Rotem, Ma'ayan Israeli, Shirley Lazar, Anat Zvi, Adi Beth-Din, Erez Bar-Haim, Uri Elia, Shay Weiss, Ofer Cohen, Emanuelle Mamroud, **Theodor Chitlaru**. **2024**. A novel virulent clinical isolate of *Burkholderia pseudomallei* imported from Thailand exhibiting resistance to trimethoprim/sulfamethoxazole. *American J of Tropical Med and Hygiene*, October2024,doi:10.4269/ajtmh.24-0231.
- 3 Inbar Cohen-Gihon, Galia Zaide, Sharon Amit, Iris Zohar, Orna Schwartz, Yasmin Maor, Ofir Israeli, Gal Bilinsky, Ma'ayan Israeli, Shirley Lazar, David Gur, Moshe Aftalion, Anat Zvi, Adi Beth-Din, Erez Bar-Haim, Uri Elia, Ofer Cohen, Emanuelle Mamroud, **Theodor Chitlaru**. **2024**. Genome Sequence of Two Novel Virulent Clinical Strains of *Burkholderia pseudomallei* Isolated from Acute Melioidosis Cases Imported to Israel from India and Thailand. *BMC Genom Data*. 2024 May 23;25(1):47. doi: 10.1186/s12863-024-01225-x.PMID: 38783201.
- 4 Liat Bar-On, Hani Dekel, Moshe Aftalion, **Theodor Chitlaru**, Noam Erez. **2023**. Essential role for Batf3-dependent Dendritic Cells in regulating CD8 T-Cell Response During SARS-CoV-2 Infection. *PLoS ONE* 18(12): e0294176.
- 5 Zaide, G., Cohen-Gihon, I., Shifman, O., Ofir Israeli, Moshe Aftalion, Sharon Maoz, **Theodor Chitlaru**, Raphael Ber, Anat Zvi, Ida Steinberger-Levy. **2023**. Global transcriptomic analysis of *Francisella tularensis* SchuS4 differentially expressed genes in response to doxycycline or ciprofloxacin exposure . *BMC Genom Data* 24, 23 (2023).
- 6 Shostak, Y.; Kramer, M.R.; Edni, O.; Glusman Bendersky, A.; Shafran, N.; Bakal, I.; Heching, M.; Rosengarten, D.; Shitenberg, D.; Amor, S.M.; Ben Zvi, H.; Pertzov, B.; Cohen, H.; Rotem, S.; Elia, U.; **Chitlaru, T.**; Erez, N.; Peysakhovich, Y.; D. Barac, Y.; Shlomai, A.; Bar-Haim, E.; Shtraichman, O. **2023**. Immunogenicity of a Third Dose of BNT162b2 Vaccine among Lung Transplant Recipients—A Prospective Cohort Study. *Vaccines*, 11, 799. https://doi.org/10.3390/vaccines11040799
- 7 Aftalion M, Tidhar A, Vagima Y, Gur D, Zauberman A, Holtzman T, Makovitzki A, **Chitlaru T**, Mamroud E, Levy Y. **2022**. Rapid Induction of Protective Immunity against Pneumonic Plague by *Yersinia pestis* Polymeric F1 and LcrV Antigens. *Vaccines* (Basel). 2023 Mar 2;11(3):581. doi: 10.3390/vaccines11030581.PMID: 36992165
- 8 Efi Makdasi, Yafit Atiya-Nasagi, David Gur, Itai Glinert, Shlomo Shmaya, Elad Milrot,

- Theodor Chitlaru**, Emanuelle Mamroud, Orly Laskar-Levy, and Ofir Schuster. **2022**. Iron modified blood culture media allow for the rapid diagnostic and Isolation of the slow growing pathogen *Francisella tularensis*. *Microbiology Spectrum*:e0241522. doi: 10.1128/spectrum.02415-22. PMID: 36190401.
- 9 Shahar Rotem, Erez Bar-Haim , Uri Elia, Hila Cohen, Shirley Lazar, Ofer Cohen, **Theodor Chitlaru** and Yoav Gal. **2022**. A Novel Approach to Vaccine Development: Concomitant Pathogen Inactivation and Host Immune Stimulation by Peroxynitrite. *Vaccines* 2022, 10, 1593. Doi /10.3390/vaccines 10101593.
 - 10 Rosenfeld R, Alcalay R, Zvi A, Ben-David A, Noy-Porat T, **Chitlaru T**, Epstein E, Israeli O, Lazar S, Caspi N, Barnea A, Dor E, Chomsky I, Pitel S, Makdasi E, Zichel R, Mazor O. **2022**. Centaur antibodies: Engineered chimeric equine-human recombinant antibodies. *Front Immunol.* 2022 Aug 19;13:942317. doi: 10.3389/fimmu.2022.942317. PMID: 36059507; PMCID: PMC9437483.
 - 11 Ma'ayan Israeli, Yaara Finkel, Yfat Yahalom-Ronen, Nir Paran, **Theodor Chitlaru**, Ofir Israeli, Inbar Cohen-Gihon, Moshe Aftalion, Reut Falach, Uri Elia, Itai Nemet, Limor Kliker, Michal Mandelboim, Adi Beth-Din, Tomer Israely, Ofer Cohen, Noam Stern-Ginossar, Adi Bercovich-Kinori. **2022**. CRISPR screens for host factors critical for infection by SARS-CoV-2 variants of concern identify GATA6 as a central modulator of ACE2 *Nature Communications*, 13(1):2237. doi: 10.1038/s41467-022-29896-z.PMID: 35469023.
 - 12 Bar-On, L., Aftalion, M., Makdasi, E, Gur, D., Alcalay, R., Cohen, H., Beth-Din, A.; Rosenfeld, R., Achdout, H., Bar-Haim, E., Falach, R., **Chitlaru, T.**, Cohen, O. 2022 Prolonged Protective Immunity Induced by Mild SARS-CoV-2 Infection of K18-hACE2 Mice. *Vaccines* 2022, 10, 613. [https:// doi.org/10.3390/vaccines10040613](https://doi.org/10.3390/vaccines10040613).
 - 13 Efi Makdasi, Yafit Atiya-Nasagi, David Gur, Ayelet Zauberman, Ofir Schuster, Itai Glinert, Shlomo Shmaya, Elad Milrot, Haim Levy, Shay Weiss, **Theodor Chitlaru**, Emanuelle Mamroud, Orly Laskar. **2022**. Improvement of diagnostic blood culture conditions allows rapid detection and isolation of the slow growing pathogen *Y. pestis*. *Pathogens*, 11(2):255. doi: 10.3390/pathogens11020255.
 - 14 Yinon Levy, Ron Alcalay, Anat Zvi, Efi Makdasi, Eldar Peretz, Tal Noy-Porat, **Theodor Chitlaru**, Michal Mandelboim, Ohad Mazor, Ronit Rosenfeld. **2022**. Immunodominant linear B-cell epitopes o SARS-CoV-2 spike, identified by sera from K18-hACE2 mice infected with the WT or variant viruses. *Vaccines*, 10, 251. <https://doi.org/10.3390>.
 - 15 Hila Cohen, Shahar Rotem, Uri Elia, Gal Bilinsky, Itzhak Levy, **Theodor Chitlaru**, Erez Bar-Haim **2022**. T cell response following anti COVID-19 BNT162b2 vaccination is maintained against the SARS-CoV-2 Omicron B.1.1.529 variant of concern. *Viruses*, 14, no. 2: 347. <https://doi.org/10.3390/v14020347>.
 - 16 Ofir Israeli, Inbar Cohen-Gihon, Moshe Aftalion, David Gur, Yaron Vagima, Ayelet Zauberman, Yinon Levy, Anat Zvi, **Theodor Chitlaru**, Emanuelle Mamroud, Avital Tidhar. **2021**. Novel

- RNA extraction method for dual RNA-seq analysis of pathogen and host in the early stages of *Yersinia pestis* pulmonary infection. *Microorganisms*, 9, 2166. <https://doi.org/10.3390/microorganisms9102166>.
- 17 Hagit Achdout, Einat B. Vitner, Boaz Politi, Sharon Melamed, Yfat Yahalom-Ronen, Hadas Tamir, Noam Erez, Roy Avraham, Shay Weiss, Lilach Cherry, Erez Bar-Haim, Efi Makdasi, Didi Gur, Moshe Aftalion, **Theodor Chitlaru**, Yaron Vagima, Nir Paran, and Tomer Israely. **2021**. Increased lethality in influenza and SARS-CoV-2 coinfection is prevented by influenza immunity but not SARS-CoV-2 immunity. *Nature Communications*, 12:5819. <https://doi.org/10.1038/s41467-021-26113-1>.
 - 18 **T. Chitlaru**, E. Bar-Haim, L. Bar-On, S. Rotem, H. Cohen, U. Elia, D. Gur, M. Aftalion, R. Alcalay, E. Makdasi, Y. Evgy, R. Falach, M. Israeli, A. Bercovich-Kinori, H. Achdout, Y. Yahalom-Ronen, R. Rosenfeld and O. Cohen. **2021**. Implementation of adenovirus-mediated pulmonary expression of human ACE2 in HLA transgenic mice enables establishment of a COVID-19 murine model for assessment of immune responses to SARS-CoV-2 infection. *Pathogens* 10, 940. <https://doi.org/10.3390/pathogens10080940>.
 - 19 Makdasi E, Zvi A, Alcalay R, Noy-Porat T, Peretz E, Mechaly A, Levy Y, Epstein E, **Chitlaru T**, Tennenhouse A, Aftalion M, Gur D, Paran N, Tamir H, Zimhony O, Weiss S, Mandelboim M, Mendelson E, Zuckerman N, Nemet I, Kliker L, Yitzhaki S, Shapira SC, Israely T, Fleishman SJ, Mazor O, Rosenfeld R. **2021**. The neutralization potency of anti-SARS-CoV-2 therapeutic human monoclonal antibodies is retained against viral variants. *Cell Reports* 2021 Aug 21:109679. doi: 10.1016/j.celrep.2021.109679.
 - 20 Uri Elia, Shahar Rotem, Erez Bar-Haim, Srinivas Ramishetti, Gonna Somu Naidu, David Gur, Moshe Aftalion, Ma'ayan Israeli, Adi Bercovich-Kinori, Ron Alcalay, Efi Makdasi, **Theodor Chitlaru**, Ronit Rosenfeld, Tomer Israely, Sharon Melamed, Inbal Abutbul Ionita, Dganit Danino, Dan Peer, and Ofer Cohen. **2021**. Lipid Nanoparticle RBD-hFc mRNA Vaccine Protects hACE2 Transgenic Mice against a Lethal SARS-CoV-2 Infection. *Nano Letters* DOI: 10.1021/acs.nanolett.1c01284.
 - 21 T. Noy-Porat, A. Mechaly, Y. Levy, E. Makdasi, R. Alcalay, D. Gur, M. Aftalion, R. Falach, S. Leviatan Ben-Arye, S. Lazar, Ayelet Zauberman, Eyal Epstein, **Theodor Chitlaru**, Raghavendra Kikkeri, Xi Chen, Shmuel Yitzhaki, Shmuel C. Shapira, Vered Padler-Karavani, Ohad Mazor, Ronit Rosenfeld. **2021**. Highly potent therapeutic antibodies targeting the SARS-CoV-2 spike N-terminal domain. *iScience*, 102479.
 - 22 Efi Makdasi, Yinon Levy, Ron Alcalay, Tal Noy-Porat, Eran Zahavy, Adva Mechaly, Eyal Epstein, Eldar Peretz, Hila Cohen, Liat Bar-On, **Theodor Chitlaru**, Ofer Cohen, Itai Glinert, Hagit Achdout, Tomer Israely, Ronit Rosenfeld, Ohad Mazor. **2021**. Neutralizing monoclonal anti-SARS-CoV-2 antibodies isolated from immunized rabbits define novel vulnerable Spike-protein epitope. *Viruses* 2021:13-00566 .
 - 23 Ronit Rosenfeld, Tal Noy-Porat, Adva Mechaly, Efi Makdasi, Yinon Levy, Ron Alcalay, Reut Falach, Moshe Aftalion, Eyal Epstein, David Gur, **Theodor Chitlaru**, Einat B. Vitner, Sharon

- Melamed, Boaz Politi, Ayelet Zauberman, Shirley Lazar, Adi Beth-Din, Yentl Evgy, Shmuel Yitzhaki, Shmuel C. Shapira, Tomer Israely and Ohad Mazor. **2021**. Post-exposure protection of SARS-CoV-2 lethal infected K18-hACE2 transgenic mice by neutralizing human monoclonal antibody. *Nature Communications* 12:944 |doi.org /10.1038/s41467-021-21239-8.
- 24 Gur D, **Chitlaru T**, Mamroud E, Zauberman A. Screening of an FDA-approved library for novel drugs against *Y. pestis*. *Antibiotics*. **2021**, 10, 40. doi.org/10.3390/antibiotics 10010040.
- 25 Zaide G, Elia U, Cohen-Gihon I, Israeli M, Rotem S, Israeli O, Ehrlich S, Cohen H, Lazar S, Beth-Din A, Shafferman A, Zvi A, Cohen O, **Chitlaru T**. Comparative Analysis of the Global Transcriptomic Response to Oxidative Stress of *Bacillus anthracis* htrA-Disrupted and Parental Wild Type Strains. *Microorganisms*. **2020** Nov 30;8(12):E1896.
- 26 Vagima Y, Gur D, Erez N, Achdout H, Aftalion M, Levy Y, Zauberman A, Tidhar A, Gutman H, Lazar S, Israely T, Paran N, Melamed S, Brosh-Nissimov T, **Chitlaru T**, Sagi I, Mamroud E. Influenza virus infection augments susceptibility to respiratory *Yersinia pestis* exposure and impacts the efficacy of antiplague antibiotic treatments. *Scientific Reports* **2020** Nov 5;10(1):19116. doi: 10.1038/s41598-020-75840-w.
- 27 Bercovich-Kinori A, Israeli M, **Chitlaru T**, Cohen-Gihon I, Israeli O, Cohen O. Transcriptome Sequencing Data Sets of Human Lung Epithelial Cells in the Course of *Francisella tularensis* Infection. *Microbiol Resour Announc*. **2020** Oct 15;9(42):e00991-20. doi: 10.1128/MRA.00991-20. PMID: 33060276; PMCID: PMC7561695.
- 28 T. Noy-Porat, E. Makdasi, R. Alcalay, A. Mechaly, Y. Levy, A. Bercovich-Kinori, A. Zauberman, H. Tamir, Y. Yahalom-Ronen, M. Israeli, E. Epstein, H. Achdout, S. Melamed, **T. Chitlaru**, Shay Weiss, Eldar Peretz, Osnat Rosen, Nir Paran, Shmuel Yitzhaki, Shmuel C. Shapira, Tomer Israely, Ohad Mazor, Ronit Rosenfeld. **2020**. A panel of human neutralizing mAbs targeting SARS-CoV-2 spike at multiple epitopes. *Nature Communications*, doi.org/10.1038/s41467-020-18159-4.
- 29 **Theodor Chitlaru**, Inbar Cohen-Gihon, Ofir Israeli, Uri Elia, Galia Zaide, Ma'ayan Israeli, Adi Beth-Din, Shirley Lazar, Sharon Ehrlich, Anat Zvi, Ofer Cohen. **2020**. Transcriptome RNASeq Data of *Bacillus anthracis* Vollum Δ htrA and its Parental Strain under Oxidative Stress. *Microbiol Resour Announc* Volume 9 Issue 999 e00618-20.
- 30 Bar-Haim E, Rotem S, Elia U, Bercovich-Kinori A, Israeli M, Cohen-Gihon I, Israeli O, Erez N, Achdout H, Zauberman A, Aftalion M, Mamroud E, **Chitlaru T**, Cohen O. **2019**. Early Diagnosis of Pathogen Infection by Cell-Based Activation Immunoassay. *Cells* Aug 22;8(9):952. doi: 10.3390/cells8090952.
- 31 Brosh-Nissimov T, Grupel D, Abuhasira S, Leskes H, Ma'ayan I, Lazar S, Elia U, Israeli O, Beth-Din A, Bar-Haim E, Cohen-Gihon I, Zvi A, Cohen O, **Chitlaru T**. **2019**. Case Report: Imported Melioidosis from Goa, India to Israel, 2018. *American J of Tropical Med and Hygiene*. 2019 Sep;101(3):580-584. doi: 10.4269/ajtmh.19-0303.

- 32 Israeli O, Cohen-Gihon I, Brosh-Nissimov T, Zvi A, Beth-Din A, Shifman O, Israeli M, Elia U, Lazar S, Bar-Haim E, Cohen O, **Chitlaru T.** 2019. Draft genome sequence of a rare Israeli clinical isolate of *Burkholderia pseudomallei*. **Microbiol Resour Announc** 8:e00281-19. Doi.org/10.1128/MRA.00281-19.
- 33 Zauberman A, Gur D, Levy I, Aftalion M, Vagima I, Tidhar A, **Chitlaru T**, Mamroud E. 2019. Post-exposure administration of a *Yersinia pestis* live vaccine potentiates second-line antibiotic treatment against pneumonic plague. **The Journal of Infectious Diseases**, jiz260, <https://doi.org/10.1093/infdis/jiz260>.
- 34 Tidhar A, Levy I, Zauberman A, Vagima Y, Gur D, Aftalion M, Israeli O, **Chitlaru T**, Ariel N, Flashner Y, Zvi A, Mamroud E. 2019. Disruption of the NlpD lipoprotein of the plague pathogen *Yersinia pestis* affects iron acquisition and the activity of the twin-arginine translocation system. **PLOS Neglected Trop Dis**, Jun 6;13(6):e0007449. doi: 10.1371/journal.pntd.0007449. eCollection 2019 Jun.PMID: 31170147.
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- 39 **T. Chitlaru**, M. Israeli, S. Rotem, U. Elia E. Bar-Haim, S. Ehrlich, O. Cohen, A. Shafferman. 2017. Development of a novel anthrax live attenuated spore vaccine based on a noncapsular Sterne strain mutated in the *htrA*, *lef* and *cya* genes. **Vaccine**, 2017.03.03.
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- plague. *The Journal of Infectious Diseases*, 214:970-977.
- 42 **T. Chitlaru**, M. Israeli, E. Bar-Haim, U. Elia, S. Rotem, S. Ehrlich, O. Cohen, A. Shafferman. **2016**. Next-generation *Bacillus anthracis* live attenuated spore vaccine based on the *htrA*- (High temperature Requirement) Sterne strain. *Scientific Reports*, 6:18908.
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 - 44 **T. Chitlaru**, G. Zaide, S. Ehrlich, Y. Inbar, O. Cohen, and A. Shafferman. **2011**. High-Temperature Requirement A (HtrA) is a major virulence determinant of *Bacillus anthracis*. *Molecular Microbiology*, 81(6):1542-1559.
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Patents

Cohen, O., Kronman, C., **Chitlaru, T.**, A. Velan, B. and Shafferman, A. Uses of Chemically-modified Cholinesterases for Detoxification of Organophosphorus Compounds. US, Israel, European patent. 2004.

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Presentations in Scientific Meetings

2024 Chemical and Biological Defense Science & Technology (DITRA CBD S&T), Fort Lauderdale, Florida, USA.

The annual meeting of the Israeli society for parasitology, protozoology and tropical diseases. Tel-Aviv, Israel (Lecture)

2021 Bacillus ACT2021 International Meeting, Paris (on-line). Presentations and Session Chair.

2020 ASM biothreats Annual Meeting, Washington DC, USA.

2019 *Burkholderia* and Melioidosis International Meeting, Hanoi, Vietnam

2018 9th International Conference on Tularemia, Montreal, Canada.

2017 Chemical and Biological Defense Science & Technology (CBD S&T), Long Beach, California, USA. (Lecture).

Bacillus ACT17. Victoria, British Columbia, Canada. (Lecture)

11th Vaccine Congress, San-Diego, USA (Lecture).

2016 10th Vaccine Congress, Amsterdam, The Netherlands. (Lecture)

15th Medical Bio-defense Conference, Munich, Germany. (Lecture)

Israel Society for Microbiology, Annual Meeting. Bar-Ilan University, Israel.

2015 8th International Conference on Tularemia. Opatija, Croatia.

ASM Biodefense and Emerging Diseases Research Meeting, Whashington, DC, USA.

2014 Bacterial Pathogenesis and Interactions with host-The Israel Society for Microbiology Fall Workshop, Ein-Gedi, Israel. (Lecture)

Israel Society for Microbiology, Annual Meeting. Haifa, Israel.

- 2013 Bacillus ACT13. Victoria, British Columbia, Canada.
- 2011 Bacillus ACT11. Bruges, Belgium. (Lecture)
- 2010 National Conference on Gram-Positive pathogens. Omaha, Nebraska, USA. (Lecture)
Israel Society for Microbiology, Annual Meeting. Bar-Ilan University, Israel.
- 2009 46th Oholo Meeting. The Challenge of Highly Pathogenic Microorganisms-Mechanisms of Virulence and Novel Medical Countermeasures. Eilat, Israel. (Lecture)
Bacillus ACT09. Santa Fe, New Mexico, USA. (Lecture)
4th conference on functional genomics of gram-positive microorganisms. 2009. San Diego, California, USA.
Israel Society for Microbiology, Annual Meeting. Bar-Ilan University, Israel. (Lecture)
FEMS Bacterial Pathogenomics Conference, Ein Gedi, Israel. (Lecture)
- 2008 The 5th Congress of the Federation of the Israel Societies for Experimental Biology – FISEB (ILANIT) Eilat, Israel. (Lecture)
- 2007 International conference on Host-pathogen interaction, Jerusalem, Israel. (Lecture)
Israel Society for Microbiology, Annual Meeting. Bar-Ilan University, Israel.
Bacillus ACT07. Oslo, Norway. (Lecture)
- 2006 National Conference on Gram-Positive pathogens. Omaha, Nebraska, USA.
Meeting of the Israeli Microbiology Society. Beer Sheva, Israel.
- 2005 Human Proteome Organisation (HUPO) and Proteomic Forum 4th Annual World Meeting. Munich, Germany.
Bacillus ACT05. Santa Fe, New Mexico, USA.
FEMS and ICS-Emerging Diseases Meeting. Ein-Gedi, Israel. (Lecture)
3rd conference on functional genomics of gram-positive Microorganisms. San Diego, Ca, USA
- 2003 Genomes of Gram-Positive bacteria. Baveno, Italy. (Lecture)
Proteomic Forum 2003. Munich, Germany.
- 2002 The 3rd Congress of the FISEB, February, Eilat, Israel.

Bioscience Review of US Army Medical Defense, Baltimore, Maryland, USA.

7th international meeting on cholinesterases. November 2002, Pucon, Chile.

XIth International Symposium on Cholinergic Mechanisms. Function and Dysfunction. St. Moritz, Switzerland.

2001 Annual Meeting of the Israeli Chemical Society, Tel-Aviv, Israel.

Enzymes 2001, Orlando, Florida, USA. (Lecture)

The 4th International Conference on Anthrax. 2001, Annapolis, Maryland, USA.

2000 Medical Defense Bioscience Review, Baltimore, Maryland, USA.

Glycobiology '00, Boston, MA, USA.

1998 2nd F.I.S.E.B Meeting, Eilat, Israel.

Medical Defense Bioscience Review, Abardeen, Maryland, USA.

VI International Meeting on Cholinesterases, La Jolla, CA, USA.

XIX International Carbohydrate Symposium, San Diego, CA, USA.

1989 EMBO Workshop on Molecular Biology of Parvoviruses. Ma'ale Hachamisha, Israel.

EMBO Workshop on Illegitimate Recombination. Port-Cros, France. (Lecture)

1985 7th European Immunology Meeting, Jerusalem, Israel. (Lecture)

The 3rd C.S.H. Meeting on Cancer Cells. Cold Spring Harbor, NY, USA. (Lecture)