# COVER LETTER

## OVERVIEW

Dr.Konry has established a new biomedical research thrust focused on dynamic analysis of cellular functional phenotypes via lab-on-a-chip single cell and tissue-chip technologies to dissect the variability in immune and cancer cell responses to therapies. She was nominated as Phase 1 Finalist of Follow That Cell Challenge/NIH for her work in single-cell proteomics which was also spotlighted in GEN magazine. She received Biosciences Immunology Research award from Becton Dickinson (BD) and Schumacher Faculty Award/NEU. Furthermore, her work was nominated for SLAS Innovation Award recognizing the novelty and integrated use of her work. She was also appointed to the Women in Microfluidics & BioMEMS List and nominated for prestigious Allen Distinguished Investigator (ADI) award. Dr.Konry's research has been funded by NIH (R01, R33, U54 and R21), NSF/CBET, foundations and industrial grants. Her collaborative work was selected for funding three times by DFCI /NEU Joint Program in Cancer Drug Development and was awarded three times with Tier 1/NEU. Her patented engineering Lab on a Chip approach allowed her to establish collaboration with MGH Diabetes Center and was awarded by JDRF with a grant to integrate the device developed by Dr.Konry into clinical settings. Her tissue-chip project was awarded with Sandia National Laboratories Collaborative grant. Furthermore, Dr.Konry generated several funded collaborations with leading immunotherapeutic and biotech companies. Recently her lab developed a novel point of care technology (issued IP) for COVID-19 diagnostics and DNA/RNA analysis, awarded with CTSI Tufts, Radx phase 0 and Radx Next/CIMIT grants (Radx NIH program). In 2022 Dr.Konry established collaborations with Sanofi and Takeda Inc and Abcuro Inc. She was awarded in 2022 with AHA grant (PD/PI $750,000). In 2023-2024 Dr.Konry was awarded with BI/HMS pilot award, NSF/CBET and Sanofi iDEA award, NSF/CBET, Takeda, ARPA H and R33/IMAT. Dr.Konry is a co-founder of immunotherapy and precision medicine company, Feromics Inc (funded with privet and ARPA H ($4.1 million) and currently in pre IND stage).

## RESEARCH SCHOLARSHIP

**1. Peer reviewed work:** Over 2385 citations and her h-index is 27 / i10-index is 45

**2. Funding:** Dr.Konry's NEU lab has been funded: 1. NIH/NCI, R21– Exceptional Innovative Tools and Technologies for Single Cell Analysis, T.Konry PI, 2. Juvenile diabetes research foundation (JDRF), T.Konry co-PI, 3. Tier 1, Internal Grant Programs in Support of Interdisciplinary Research (NEU), T.Konry PD/PI, 3. DFCI/NEU Joint Program in Cancer Drug Development, T.Konry PD/PI, 4. Becton Dickinson (BD) Biosciences immunology research award, T.Konry PI, 5. Becton Dickinson industrial grant (BD), T.Konry PI, 6. NantKwest Inc industrial grant, T.Konry PI, 7. CIMIT/POCT/NIBIB grant, T.Konry PI, 8. Tufts/CTSI/NIH U54, T.Konry PI, 9. Tesaro Inc grant, T.Konry PI, 10. R33/NIH/NCI/IMAT, T.Konry PD/PI, 11. R01/NIH/NIGMS, T.Konry PI and 12. NSF/CBET, T.Konry PI, 13. DF-NEU Joint Program in Cancer Drug Development T.Konry PD/PI, 14. CTSI Tufts COVID-19 grant, T.Konry PI, 15.Radx NIH phase 0 and Radx Next COVID-19 grants, 16. Spark funding NEU, 17. Takeda 2021 and 2024, 18. AHA grant, 19. NSF/CBET , 20. iDEA Sanofi, 21. BI/HMS pilot award, 22. ARPA H, 23. R33/NIH/IMAT.

## TEACHING

1. Pharmaceutics 1 (PHSC 3411) – coordinator/instructor.
2. Pharmaceutics 2 (PHSC 3412) – coordinator/instructor.
3. Pharmaceutics Lab (PHSC 3419) - coordinator/instructor.
4. Pharm Sci Journal Club – coordinator/instructor.

## SERVICES

1. Committees: Assistant dean for research, executive committee, Graduate, Admission, Assessment, Graduate Affairs, and John Neumeyer Award, Teaching Assistant/Associated Prof. and chair Pharm.Sci. Department search committees and merit review committee/Pharm.Sci.
2. Review grants: NSF, NIH, Medical Research Council (MRC) UK, Swiss National Science Foundation (SNSF),NASA and Tier1/NEU.
3. Reviewer for numerous journals and is a member of Editorial Board of Scientific Reports/ Nature and other journals.

**CURRICULUM VITAE**

**Tania (Tali) Konry, PhD**

**Current position:** Associate Professor, Department of Pharmaceutical Sciences, Bouvé College of Health Sciences, affiliated with Bioengineering Department, College of Engineering at Northeastern University
Assistant Dean for Research, School of Pharmacy and Pharmaceutical Sciences (SOPPS)

**Lab website:** http://www.northeastern.edu/konrylab/

**E-mail:** t.konry@neu.edu, konry.tania@gmail.com

**Phone:** 617-898-7840

## I. EDUCATION AND EMPLOYMENT HISTORY

### EDUCATION

| | | | |
|---|---|---|---|
| 10/2004-08/2007 | Ph.D. | Biotechnology Engineering<br>Advisor: Prof. Robert Marks | Ben Gurion University of Negev, Beer Sheva, Israel |
| 10/2002-08/2004 | M. Sc. | Biotechnology Engineering<br>Advisor: Prof. Robert Marks | Ben Gurion University of Negev, Beer Sheva, Israel |
| 10/1999-08/2002 | B.Med.Sc. | Medical Sciences | Ben Gurion University of Negev, Beer Sheva, Israel |

### POSTDOCTORAL TRAINING

| | | |
|---|---|---|
| 04/2009-03/2011 | Bioengineering<br>Advisor: Prof. Martin L. Yarmush | Harvard Medical School, Center for Engineering in Medicine, MGH, Boston, MA, US |
| 12/2007-04/2009 | Chemistry<br>Advisor: Prof. David R.Walt | Tufts University<br>Medford, MA, US |

### ACADEMIC APPOINTMENTS

| | | | |
|---|---|---|---|
| 07/2022- | Assistant Dean for research | School of Pharmacy and Pharmaceutical Sciences (SOPPS), Bouvé College of Health Sciences | Northeastern University |
| 07/2020- | Associate Professor | Pharmaceutical Sciences affiliated with Bioengineering Department | Northeastern University |
| 12/2017- | Scholar | Tufts Clinical and Translational Science Institute | Tufts University |

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|---|---|---|---|
| 08/2013-07/2020 | Assistant Professor | Pharmaceutical Sciences affiliated with Bioengineering Department | Northeastern University |
| 2013-2016 | Visiting Assistant Professor of Surgery | Surgery (Bioengineering) | Harvard Medical School/ MGH |
| 2011-2013 | Instructor in Surgery | Bioengineering | Harvard Medical School |
| 2011-2013 | Nano- and Microsystems Bioengineering Group co leader | Bioengineering | Center for Engineering in Medicine/ HMS |
| 2011-2013 | Assistant in Bioengineering | Bioengineering | Massachusetts General Hospital (MGH) |
| 2009-2011 | Postdoctoral Fellow | Bioengineering | Harvard Medical School, MGH, Shriners Hospitals for Children |
| 2007-2009 | Postdoctoral Fellow | Department of Chemistry | Tufts University, Medford, MA |
| 2002-2007 | Teaching Assistant and Laboratory Instructor | Department of Biotechnology Engineering | Ben-Gurion University of the Negev Beer-Sheva, Israel |

**OTHER PROFESSIONAL POSITIONS**

| | | |
|---|---|---|
| 2005 | Visiting Research Scientist Funded by: Scholarship Program of ENS de Cachan for Foreign Ph.D. students | ÉCOLE NORMALE SUPÉRIEURE DE CACHAN, Laboratory of Quantum and Molecular Photonics Laboratory (LPQM) Paris, France |
| 2004 | Visiting research scientist<br>Funded by: European Commission Center | European Commission, Institute for Health and Consumer Protection Ispra, Italy |
| 2003-2007 | Mentor of Science Graduation Projects of BSc students at Biosensors laboratory | Department of Biotechnology Engineering, Institute for Applied Biosciences, Ben Gurion University of the Negev, Beer-Sheva, Israel |
| 2001-2002 | Medical Intern at Pathology Laboratories | Soroka Hospital, Beer-Sheva, Israel |
| 2001 | Visiting Research Scientist<br>Funded by: Senspol EU network | Laboratory of Organic Electrochemistry and Redox Photochemistry, Joseph Fourier University, Grenoble, France |

## II.RESEARCH AND SCHOLARSHIP

## PEER REVIEWED PUBLICATIONS

https://scholar.google.com/citations?hl=en&user=IWjm8xgAAAAJ

1. M. R.Sullivan, M. Finocchiaro, Y.Yang, J.e Thomas, A.Ali, I. Kaplan, Y. Abdulhamid, E. Bobilev, M.Sheffer, R. Romee, T.Konry, An innovative single-cell approach for phenotyping and functional genotyping of CAR NK Cells, Journal for Immunotherapy of Cancer, 12,5, 2024. **IF 10.3**
2. T.Konry, et al, Advancing Point-of-Care Applications with Droplet Microfluidics: From Single-Cell to Multicellular Analysis , Volume 26, 2024, Annual Review of Biomedical Engineering IF 9.7.
3. M. Sulllivan, R.Dashnamoorthy, N. Kanetkar, Ilana Berger Fridman, Adam Ekenseair, Andrew Evans, Tania Konry, Characterizing Influence of rCHOP Treatment on Diffuse Large B-Cell Lymphoma Microenvironment through In Vitro Microfluidic Spheroid Model, Cell Death & Disease, 2023, **IF 9**.
4. R. Zhong, M. Sullivan, N.Upreti, R.Chen, A. De Ganzó, K.Yang, S. Yang, K. Jin, Y.He, K.Li, J. Xia, Z.Ma, L.P Lee*, T. Konry*, T. J. Huang*, Cellular immunity analysis by a modular acoustofluidic platform: CIAMAP, Science Advances, Volume 9, Issue 51,2023, *corresponding authors and equal contribution. **IF 14.13**
5. R. Kumari, J.W. Lim, M. R. Sullivan, R. Malampy, C.Baush, I. Smolina, H. Robin, V.V. Demidov, G.S. Ugolini, J. R. Auclair, T. Konry, A Novel Rolling Circle Amplification-Based Detection of SARS-CoV-2 with Multi-Region Padlock Hybridization, Diagnostics 12 (9), 2252,2022. **IF 3.99**
6. S. N. Agnihotri, G. S.Ugolini, M. R. Sullivan, Y. Yang, A. De Ganzó, J. W. Lim, T. Konry, Droplet microfluidics for functional temporal analysis and cell recovery on demand using microvalves: application in immunotherapies for cancer, LOC, 22/17 3258-3267, 2022. **IF 7.5**
7. N. Filipczak, U. Joshi, S.A. Attia, I.B. Fridman, S. T. Konry, V. Torchilin, T. Konry Hypoxia-sensitive drug delivery to tumors, Journal of Controlled Release 341, 431-442,2022. **IF 7.9**
8. R. Zhong, S. Yang, G.S. Ugolini, T. Naquin, J. Zhang, K. Yang, J. Xia, T. Konry*, T. Huang* Acoustofluidic Droplet Sorter Based on Single Phase Focused Transducers Small 17 (46), 2021. Cover paper **IF 13.28 *equal contribution.**
9. H. Zuo, M.J.C Van Lierop, J. Kaspers, R. Bos, A. Reurs, S. Sarkar, T.Konry, A. Kamermans, G. Kooij, H.E de Vries, T.D de Gruijl, A.Karlsson-Parra, E. H Manting, A.M Kruisbeek, S.Kaur Singh, Transfer of cellular content from the allogeneic cell-based cancer vaccine DCP-001 to host dendritic cells hinges on phosphatidylserine and is enhanced by CD47 blockade, Cells 10 (11), 3233, 2021.
10. K. C. Aluri, M. A. Hossain, N. Kanetkar, B. C Miller, M.G Dowgiallo, Durgalakshmi Sivasankar, Matthew R Sullivan, Roman Manetsch, Tania Konry, Adam Ekenseair, Jeffrey N Agar, Cyclic Thiosulfinates as a Novel Class of Disulfide Cleavable Cross-Linkers for Rapid Hydrogel Synthesis Bioconjugate Chemistry 32 (3), 584-594, 2021. **IF 4.77**
11. I.B. Fridman, J. Kostas, M. Gregus, S. Ray, M.R. Sullivan, A.R. Ivanov, S Cohen, T. Konry, High-throughput microfluidic 3D biomimetic model enabling quantitative description of the human breast tumor microenvironment, Acta Biomaterialia 2021 accepted. **IF 7.24**
12. I.B. Fridman, G.S. Ugolini, V. Vandelinder, S. Cohen, T. Konry, High throughput microfluidic system with multiple oxygen levels for the study of hypoxia in tumor spheroids, Biofabrication 2021. **IF 8.2**
13. M.R. Sullivan, G. S.Ugolini, S.Sarkar, W. Kang, E. C. Smith, S. Mckenney, T. Konry, Quantifying the efficacy of checkpoint inhibitors on CD8+ cytotoxic T cells for immunotherapeutic applications via single-cell interaction, Cell Death & Disease 11 (11), 1-9,2020. **IF 6.3**
14. S. Sarkar, W. Kang, S. Jiang, K. Li, S. Ray, E.Luther, A. Ivanov, Y. R. Fu, T.Konry, Machine learning-aided quantification of antibody-based cancer immunotherapy by Natural Killer cells in microfluidic droplets, Lab Chip, 2020,20, 2317-2327. **IF 7.5**
15. R.Dashnamoorthy Ravi, S.Sarkar, S. Purvey, F.Passero, A.Beheshti, Y. Chen, M.Mokhtar, K.David, T.Konry, A. M. Evens, Interaction kinetics with transcriptomic and secretory responses of CD19-CAR natural killer-cell therapy in CD20 resistant non-hodgkin lymphoma, Leukemia, 1-14,2020. **IF 9.94**

16. W.Kang, S.Sarkar, Z.Shen Lin, S.McKenney, T. Konry, Ultra-fast parallelized microfluidic platform for antimicrobial susceptibility testing of gram positive and negative bacteria, Analytical chemistry, 4/2019. **IF 6.3**
17. S. Sarkar, S. McKenney, P. Sabhachandani, J. Adler, X. Hu, D. Stroopinksy, J. Rosenblatt, D. Avigan, T. Konry, Anti-myeloma activity and molecular logic operation by Natural Killer cells in microfluidic droplets Sensors and Actuators B: Chemical, 2018. **IF 6.39**
18. P.Sabhachandani, S.Sarkar, S.Mckenney, R.Dashnamoorthy, A.M. Evens, T.Konry, Microfluidic assembly of hydrogel-based immunogenic tumor spheroids for evaluation of anticancer therapies and biomarker release, Journal of Controlled Release, 2018. **IF 7.9**
19. S. Sarkar, P. Sabhachandani, R. Dashnamoorthy, S. Potdar, S. Purvey, A. Beheshti, A. M Evens, T.Konry, Dynamic Analysis of Human Natural Killer Cell Response at Single-Cell Resolution in B-cell Non-Hodgkin Lymphoma, Frontiers in Immunology 8, 1736, 2017. Frontiers in Immunology. **IF 4.8**
20. P. Sabhachandani, S. Sarkar, P. C. Zucchi, B. A. Whitfield, J.E. Kirby, E. B. Hirsch, T. Konry, Integrated microfluidic platform for rapid antimicrobial susceptibility testing and bacterial growth analysis using bead-based biosensor via fluorescence imaging, Microchimica Acta 184 (12), 4619-4628, 2017. **IF 5.7**
21. N. Cohen, S. Sarkar, E. Hondroulis, P. Sabhachandani, T. Konry, Quantification of Intercellular Adhesion Forces measured by Fluid Force Microscopy, Talanta, 174, 409-413, 2017. **IF 4.9**
22. E. Hondroulis, A. Movila, P. Sabhachandani, S.Sarkar, N. Cohen, T. Kawai, T. Konry, A droplet-merging platform for comparative functional analysis of m1 and m2 macrophages in response to e. coli-induced stimuli, Biotechnology and bioengineering, 705-709, 2017. **IF 4.26**
23. N. Cohen, P. Sabhachandani, S. Sarkar, L. Kahanovitz, N. Lautsch, S. J. Russell, T. Konry, Microsphere based continuous-flow immunoassay in a microfluidic device for determination of clinically relevant insulin levels, Microchimica Acta 184 (3), 835-841,2017. **IF 5.7**
24. R. Dashnamoorthy, A. Beheshti, S. Sarkar, P. Sabhachandani, F.C. Passero, S. Purvey, L.Boissel, T.Konry, A. M. Evens, CD19 Target Activated Natural Killer (CD19. TaNK) Cellular Therapy: A Novel immunotherapeutic Approach to the Treatment of Non-Hodgkin Lymphoma (NHL), Blood 128 (22), 4174-4174,2017. ASH abstract.
25. S. Sarkar, P. Sabhachandani, D.Stroopinsky, K. Palmer, N. Cohen, J. Rosenblatt, D. Avigan, T. Konry, Dynamic analysis of immune and cancer cell interactions at single cell level in microfluidic droplets, Biomicrofluidics 10 (5), 054115, 2016. **IF 2.57**
26. S. Sarkar, P. Sabhachandani, T. Konry, Isothermal Amplification Strategies for Protein Detection in Microfluidic Devices, Trends in Biotechnology, 85-97,2016. **IF 13.7**
27. **T. Konry**, S. Sarkar, P. Sabhachandani, N. Cohen, Innovative Tools and Technology for Analysis of Single Cells and Cell-Cell Interaction, Annual Review of Biomedical Engineering 18 (1). IF **14.21**
28. P. Sabhachandani, S. Sarkar, T.Konry, Droplet Microfluidics for Screening of Surface-Marker and Secretory Protein Expression, Book Chapter: Microfluidic Methods for Molecular Biology, 219-23 (book).
29. S.Sarkar, P.Sabhachandani, T. Konry, Ultrasensitive Isothermal Detection of Protein Analytes Using Rolling Circle Amplification in Microscale Platforms, Rolling Circle Amplification (RCA), 85-97 (book).
30. L. Kahanovitz, E. Seker, R.S. Marks, M.L. Yarmush, T. Konry, S.J. Russell, Development of a Microsphere-Based System to Facilitate Real-Time Insulin Monitoring, Journal of diabetes science and technology, 689-696, 2016.
31. P. Sabhachandani, V. Motwani, N. Cohen, S. Sarkar, V. Torchilin, T. Konry, Generation and functional assessment of 3D multicellular spheroids in droplet based microfluidics platform, Lab on a Chip, 2016. **IF 6.9, top 5 % most cited papers** in Analytical portfolio of journals of RSC.
32. S. Sarkar, N. Cohen, P. Sabhachandania and T. Konry, Phenotypic drug profiling in droplet microfluidics for better targeting of drug-resistant tumors, Lab Chip,15, 4441-4450,2015. **IF 6.9**
33. S. Sarkar, V. Motwani, P. Sabhachandani, N. Cohen and T. Konry, T cell dynamic activation and functional analysis in nanoliter droplet microarray, Journal of Clinical & Cellular Immunology, 6, 334, 2015. **IF 3.72 (5 Year Impact Factor)**
34. P.Sabhachandani, N. Cohen, S.Sarkar, T. Konry, Microsphere-based immunoassay integrated with a microfluidic network to perform logic operations, Microchimica Acta, 2015, 182, 9,1835. **IF 5.7**

35. N. Cohen, P. Sabhachandani, A. Golberg, **T. Konry**, Approaching near real-time biosensing: Microfluidic microsphere based biosensor for real-time analyte detection, Biosensors and Bioelectronics, 66, 454, 2015. **IF 9.5**
36. A.Golberg, G. Linshiz, I. Kravets, N. Stawski, N. J. Hillson, M.L. Yarmush, R. S. Marks, T. Konry, Cloud-Enabled Microscopy and Droplet Microfluidic Platform for Specific Detection of Escherichia coli in Water, PLOS, 9,1,2014. **IF 2.7**
37. T. Konry, A. Golberg, M. Yarmush, Live single cell functional phenotyping in droplet nano-liter reactors, Scientific Reports : Nature Publishing Group, 3, 3179, 2013. **IF 4.12**
38. T. Konry, Adam Lerner, Martin L. Yarmush, Irina V. Smolina, Target DNA detection and quantitation on a single cell with single base resolution, Technology, 01, 88, 2013.
39. A.Golberg, M. L. Yarmush, **T. Konry**, Pico-liter immunosorbent droplet microfluidic platform for point-of-care tetanus diagnostics, Microchimica Acta, 180, 9-10, 860, 2013. **IF 5.7**
40. G.Linshiz, A. Goldberg, **T. Konry**, N.J. Hillson, The fusion of biology, computer science, and engineering: towards efficient and successful synthetic biology, Perspectives in Biology and Medicine, 55 4, 503, 2012. **IF 1.34**
41. T. Konry et al., Particles and Microfluidic Merged: Perspective of highly Sensitive Diagnostic Detection, Microchemica Acta, 176, 3-4, 251, 2012. **IF 5.7**
42. **T.Konry**, I .Smolina, M.L. Yarmush, et al., Microfluidic nano-liter platform for ultrasensitive detection of low-abundance surface-marker protein using isothermal rolling circle amplification, Small, 7, 3, 395, 2011. **IF 8.64**
43. T. Konry, M. Dominguez, C. Baecher-Allan, M.Yarmush, Droplet-based microfluidic platforms for single T cell secretion analysis of IL -10 cytokine, Biosensors and bioelectronics, 26, 270, 2011. Top 20 Articles, in the Domain of Article 20888750. **IF 9.59**
44. T. Konry, D.R. Walt, "Intelligent medical diagnostics via molecular logic". J. Am. Chem. Soc.,131 (37), 13232, 2009. **IF 14.35**
45. T. Konry, R. B. Hayman, D. R. Walt, Microsphere-based rolling circle amplification microarray for the detection of DNA and proteins in a single assay, Analytical Chemistry ,81(14), 5777, 2009. **IF 6.3**
46. **Konry T**, Indium-tin oxide-coated fiber optic immunosensors and bio-optic devices. *Published as invited thesis in **LAP Lambert Academic Publishing AG & Co. KG***
47. T. Konry, Y. Heyman, S. Cosnier, K. Gorgy, R. S. Marks, Characterization of thin poly (Pyrrole-benzophenone) film morphologies electropolymerized on Indium Tin Oxide coated optic fibers for electrochemical and optical biosensing, Electrochimica Acta, 53, 5128, 2008. **IF 5.1**
48. T. Konry, B. Hadad, Y. Shemer-Avni ,S. Cosnier, R. S. Marks , ITO pattern fabrication of glass platforms for electropolymerization of light sensitive polymer for its conjugation to bioreceptors on a micro-array, Talanta, 75, 564, 2008.**IF 4.9**
49. T.Konry, M.Bouhirfd, M. Whelan, F. Rossi, R. S.Marks, Electrogenerated ITO-coated glass chip surfaces, Biosensors and bioelectronics, 22, 2230, 2007. **IF 9.5**
50. A.Petrosova, **T. Konry**, S.Cosnier, et al.,, Development of a highly sensitive, field operable biosensor to be deployed in central Africa for serological studies of Ebola virus, Sensors and Actuators B, 122, 578, 2007. **IF 6.39**
51. T. Konry, A. Novoa, Y. et al., Optical fiber immunosensor based on poly(pyrrole-benzophenone) film for detection of antibodies to viral antigen, Analytical Chemistry, 77, 6, 1771, 2005. **IF 6.3**
52. T.Konry,A.Novoa,R.S.Marks, Physico-chemical studies of the properties of ITO-coated fiber-optic, Thin solid films, 492 313, 2005. **IF 1.93**
53. T.Konry, A.Novoa,S.Cosnier, R.S.Marks, Development of an 'electroptode' immunosensor: Indium tin oxide-coated optical fiber tips conjugated with an electro-polymerized thin film with conjugated cholera toxin B subunit, Analytical Chemistry, 75, 2633, 2003. **IF 6.3**
54. R.S. Marks, A. Novoa, T. Konry, R. Krais, S. Cosnier, Indium tin oxide-coated optical fiber tips for affinity electropolymerization, Materials Science and Engineering: C, Volume, 21, Issue, 189-194, 2002.**IF 4.9**

**RESEARCH FUNDING INFORMATION**

**Funding at NEU**

| Date | PI | Funding | Cost |
|---|---|---|---|
| 6/2024-/2027 | PI | IMAT/NCI/NIH R33 | 1.2 million |
| 9/2024-9/2025 | Feromics (PI's spin out) and sub award to Konry lab and KRI | ARPA H | 4.1 million |
| 12/2023-12/2024 | PI | Sanofi iDEA | $150,000 |
| 12/2023-2024 | Co-PI | BI/HMS | $50,000 |
| 08/2023-2026 | T.Konry | NSF/SBET | $390,000 |
| 07/2022-2025 | T.Konry PD/PI | AHA | $825,000 |
| 12/2021 | T.Konry | Takeda | $120,000 |
| 09/2020 | NEU Spin out from T.Konry lab | NIH Radx | $250,000 |
| 08/2020 | T.Konry | NIH Radx | $25,000 |
| 2020-2021 | T.Konry<br>J.Li | Tier 1 NEU | $50,000 |
| 2020-2021 | T.Konry | CTSI COVID-19 | $25,000 |
| 2020-2022 | T.Konry | GapFund360 | $50,000 |
| 2019-2022 | T.Konry,<br>R. Romee | DFCI/NU Joint Program in Cancer Drug Development | $100,000 |
| 2018-2022 | T.Konry, PI | NSF | $299,723 |
| 2018-2022 | T.Konry, PI | R01/NIGMS/NIH | $1,154,431 |
| 2018-2022 | T.Konry, Lead PD/PI<br>R33/NCI/NIH<br>Co-PIs:<br>Andrew Evens (Rutgers)<br>Tony Huang(Duke) | R33/NCI/NIH | $1,186,103 |

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| 2018-2019 | T.Konry, PI | Center for Integrated Nanotechnologies (CINT)/ Sandia lab | User project |
| 2017-2019 | T.Konry, PI | Tesaro/GSK Inc | $183,000 |
| 2017-2018 | T.Konry, PI | Tufts/CTSI | $44,657 |
| 2017-2018 | T.Konry, PI | CIMIT/POCT/ NIBIB | $156,000 |
| 2017-2018 | T.Konry, PI | Becton Dickinson (BD) | $141,960 |
| 2016-2018 | T.Konry, PI | NantKwest Inc | $134,415 |
| 2016-2017 | T.Konry, PD/PI A.Ivanov | Tier 1, Internal Grant Programs in Support of Interdisciplinary Research, NEU | $50,000 |
| 2015-2017 | T.Konry,PD/PI S.Gaudet | DFCI/NU Joint Program in Cancer Drug Development | $100,000 |
| 2015-2016 | T.Konry, PD/PI M.Wanunu | Tier 1, Internal Grant Programs in Support of Interdisciplinary Research, NEU | $50,000 |
| 2015-2016 | T.Konry,PI | Becton Dickinson (BD) Biosciences immunology research grant | $10,000 |
| 2013-2016 | T.Konry,PI | NIH/NCI, R21 | $319,783 |
| 2013-2014 | T.Konry | Nanosurf Inc | $15,000 |
| 2013-2016 | T.Konry, Co-PI PI Steven Russell, MGH | Juvenile diabetes research foundation (JDRF) | $765,359 |
| 2012-2014 | T.Konry Consultant | Multiple Myeloma Research Foundation, US | $10,000 |

**Prior Funding at HMS**

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| 2011-2013 | M.Yarmush, T.Konry | CIMIT - Center for Integration of Medicine and Innovative Technology, US | $120,000 |

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| 2010-2013 | T.Konry | Shriners Burn Hospital Fellowship | $180,000 |

**HONORS AND PRIZES**

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|---|---|---|---|
| 2019 | Appointed to Women in Microfluidics & BioMEMS List | Women in Microfluidics & BioMEMS *microfluidics.berkeley.edu* | Profile of women leading research and leading their own laboratories in micro/nanofluidics and Bio-MEMS |
| 2019 | Nomination for Allen Distinguished Investigator (ADI) | The Paul G. Allen Frontiers Group *https://alleninstitute.org/what-we-do/frontiers-group/* | Single cell technology |
| 2017 | Nomination for SLAS Innovation Award | SLAS *http://www.slas2017.org/awards/innovationAward-finalists.cfm* | Dynamic Profiling of Anti-Tumor Immune Response at the Single-Cell Resolution by Microfluidic Cell Pairing |
| 2015 | Phase 1 finalist at Follow That Cell Challenge/ Single cell analysis | NIH *https://commonfund.nih.gov/singlecell/challenge* | Lab on a chip functional single cell phenotyping |
| 2015 | BD Biosciences immunology research grants | Becton Dickinson (BD) *Link to the description* | Ultrasensitive bioassay with single cell resolution for dynamic cell-cell interaction studies |
| 2015 | Schumacher Faculty Award | Northeastern University | Presented to one faculty member early in their Northeastern career to recognize significant academic achievement. |
| 2010-2013 | Shriners Burn Hospital Fellowship | Shriners Burn Hospitals, Tampa, FL | Development of Burn Wound Vaccine |
| 12/2009 | Invitation to World Wide Marketed Publication of PhD dissertation | LAP Lambert Academic Publishing AG & Co. KG | PhD thesis |
| 2006 | Woman in Science Award 2006 | Israel Ministry of Science | PhD achievements |
| 2006 | Outstanding PhD Student Award | Prof. Shemona Geresh Award | Indium-Tin Oxide-Coated Fiber Optic Immunosensors and Bio-Optic Devices |
| 2006 | Most Practical Science Project Award | 5th Advanced Study Course on Optical Chemical Sensors (ASCOS 2006), Tihany, Hungary | Development of Immunological Device to Monitor Hepatitis B and C Virus in Patient Blood Samples |

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| 09/2005-09/2006 | PhD Foreign Students Scholarship | Scholarship Program of ÉCOLE NORMALE SUPÉRIEURE DE CACHAN, France, for Foreign PhD Students | Optical Biomedical Technologies and Devices |
| 10/2004-11/2007 | PhD Excellency Scholarship | Scholarship awarded by *Kreitman* School of Advanced Graduate Studies, Ben-Gurion University of the Negev Beer-Sheva, Israel | PhD Research |
| 2004 | Scientific Award | Award from European Commission Institute for Health and Consumer Protection Ispra, Italy | Development of advance biotechnology devices to monitor infectious diseases |
| 2001 | Scientific Award | Award from SENSPOL | European Network on Sensors for Monitoring Water Pollution |

## III. TEACHING

### REPORT OF CLASSROOM TEACHING

| | | |
|---|---|---|
| 2018- | Northeastern University<br>Department of Pharmaceutical Sciences **Role:** Course Coordinator and Lecturer (100%) | Pharm Sci Journal Club (1 credit hour) Graduate Course, Spring Semester |
| 2013- | Northeastern University<br>Department of Pharmaceutical Sciences<br>**Role:** Course Coordinator and Lecturer (50%) | PHSC3411 Pharmaceutics 1 (4 credit hours), Pharm.D. Program (Required), Undergraduate Course (~150 students), Fall Semester |
| 2013- | Northeastern University<br>Department of Pharmaceutical Sciences<br>**Role:** Course Coordinator and Lecturer (32-40%) | PHSC3412 Pharmaceutics 2 (4 credit hours), Pharm.D. Program (Required), Undergraduate Course (~150 students), Summer Semester |
| 2013- | Northeastern University<br>Department of Pharmaceutical Sciences<br>**Role:** Lecture (50%) | PHSC3419 Pharmaceutics Lab (1 credit hour), Pharm.D. Program (Required), Undergraduate Course (~150 students), Summer Semester |

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|---|---|---|
| 09/2006-<br>09/2007 | Lecture and Laboratory instructor<br>Ben-Gurion University of the Negev Beer-Sheva, Israel | Central Nervous System in Biotechnology aspect<br>Laboratory instructor in the following courses:<br>Genetic engineering and molecular biology |
| 09/2005-<br>09/2007 | Lecture and Laboratory instructor<br>Ben-Gurion University of the Negev Beer-Sheva, Israel | Nuclear acids for Biotechnology<br>Engineering (molecular biology)<br>Genetic for Biotechnology<br>Laboratory instructor in the following courses:<br>Genetic engineering and molecular biology |
| 09/2004-<br>09/2007 | Laboratory Instructor<br>Ben-Gurion University of the Negev Beer-Sheva, Israel | Biochemistry<br>Genetic engineering |

**MENTORING**

**Postdoctoral Fellows/ Researchers in Konry lab**

**1. 01/2022- 04/2023** **Dr.Agustin De Ganzó**
*Project "Single molecule and cell multi- omic analysis in LOC devices"*

**2. 10/2021- 08/2022** **Dr.Yichao Yan**
*Project "Novel BioMEMS for tissue- chip and single cell analysis"*

**3. 02/2021-10/2021** **Dr. Rajesh Kumari**
*Project "Single molecule and cell multi- omic analysis in LOC devices"*
**Published work in Konry lab**: Paper in preparation

**4. 04/2021- 10/2021** **Dr. Sagar Agnihotri**
*Project "Novel BioMEMS for tissue- chip and single cell analysis"*
**Published work in Konry lab**: Submitted and in preparation

**5. 02/2020 - 02/2021** **Dr. Alex Lin**

*Project " Rapid COVID-19 diagnostics"*
**Published work in Konry lab**: Paper in preparation

**6. 03/2014 - 06/2020** **Dr. Saheli Sarkar**

*Project "Microfluidic applications towards development of cell-cell interaction and functional phenotyping"*
**Published work in Konry lab**: Sixteen papers
Currently: Senior Scientist at Applied Biomath

**7. 12/2018 - 08/2019** **Dr. Yantao Fan**
*Project "Novel bio-memetic micro-devices and single cell omic-analysis"*
**Published work in Konry lab**: Paper in preparation

**8. 03/2019 - 12/2020** **Dr. Stefano Ugolini**
*Project "Novel bio-memetic micro-devices and single cell omic-analysis"*
**Published work in Konry lab**: Two papers

**9. 04/2017-04/2019** **Dr. Wenjing Kang**
*Project "Developing a device for rapid diagnosis and antibiotic susceptibility testing"*
**Published work Konry lab:** Two papers
Currently: Project Engineer at Giner, Inc

**10. 02/2016- 07/2016** **Dr. Lia Hondroulis**

*Project "LOC approach to analyze cell-cell interaction at single cell resolution"*
**Published work in Konry lab:** Two papers
Currently: Field Applications Scientist at Unchained Labs

**11. 12/2013-01/2016** **Dr. Noa Cohen**
*Project "Microfluidic solutions to real time/dynamic bioassays development"*
**Published work in Konry lab:** Ten papers
Currently: Senior Engineer at Kateeva

**Grad students in Konry lab**

**1. 09/2024-** **Ricardo Fernandez** Bioengineering
**2. 09/2024-** **Xingyi Tang** Pharm Sci
**3. 12/2023-** **Abhishek Srihari Rampelli** Bioengineering
*Project " "From Single-Cell Expansion to Omics Profiling: Understanding Immune Cell Function and Heterogeneity in Immune Response"*
**4. 12/2023-** **Harry Akligoh** Bioengineering
*Project "Engineering Tumor-on-a-Chip Platforms for Enhanced Solid Tumor Immunotherapy Insights"*
**5. 09/2023-** **Sujata Chalise** Pharm Sci
*Project " "Unveiling T Cell Heterogeneity: Single-Cell Expansion and Functional Analysis through Multi-Omics Approaches"'*
**6. 09/2022-** **Michael Finocchiaro** Bioengineering
*Project "On-Chip Droplet Sorting and Manipulation for Immunotherapy: Analyzing Cell-Cell Interactions in Microfluidic Systems"*
**7. 09/2022-** **Rachel White** Pharm Sci
*Project "Immunotherapy enhancement via cell-cell interaction and multi omic analysis"*
**8. 09/2022 -** **Judene Thomas** Chemistry
*Project "Development and validation of lab on a chip-based technology for immune regulation studies in cancer"*
**9. 09/2022-** **Christina Sharkey** Pharm Sci/HMS student
*Project "Microfluidic Tumor-on-a-Chip Model for Personalized Solid Tumor Immunotherapy Development"*
**10. 09/2020-** **Jose Estevam** Pharm Sci (Takeda)
*Project "Immune regulation via single cell multi omic analysis studies in cancer"*
**11. 05/2018-** **Matthew Ryan Sullivan** Pharm Sci
*Project "Dynamic profiling of anti-tumor immune response at the single-cell resolution by droplet microfluidic cell pairing"*
**Published work in Konry lab: three papers**

**12. 05/2017-2021 Ilana Berger** International visiting Graduate student Sciences from Ben Gurion University, Department of Biotechnology engineering, Israel

*Project "Generation and functional assessment of 3D biomimetic tumor spheroids in microfluidics platform"*

**Published work in Konry lab: 3 papers**

**13.09/2018- 03/2020 Amey Gaikwad** Industrial Graduate student, Pharm Sci

*Project "Omic analysis of immunotherapy in LOC device"*

**14. 09/2013-12/2017 Pooja Sabhachandani** Pharm Sci

*Project "Development of microanalysis systems for cancer diagnostics and therapeutic screening using droplet microfluidics*"

Accomplishments during her work in Konry's lab:Pooja Sabhachandani was awarded with Shevell/Cohen Cancer Research Award (first place winner, 2015) and John Neumeyer Award (2017).

**Published work in Konry lab:** Eighteen papers

Currently: Associate director in Novartis

**Rotating Graduate Students**

| | | |
|---|---|---|
| 05-12/2018 | **Evan Smith** | Pharm Sci |
| 09-12/2018 | **Jacqueline Saldana** | Pharm Sci |
| 09-12/2018 | **Jordie Kamuene** | Pharm Sci |

**MS and undergraduate students in Konry lab**

| | | |
|---|---|---|
| 2020-2021 | Aditi Dave | MS in Bioengineering |
| | Akhila Konda, Arushi Sharma, Chinmayee Sharma, Sneha Yadav and Shreya Nelson Singh | MS in Pharmaceutical Sciences and Biotechnology, Northeastern University |
| 2019-2020 | Fengqing Jian | MS in Pharmaceutical Sciences |
| | Tessa Brighton, Mary Lin, Radha Mollett | Capstone students |
| 2018-2019 | Zhi Lin Shen, Xiang Ma | MS in Pharmaceutical Sciences and |
| | Pingqian Zheng, Parnika Dalvi | Biotechnology, Northeastern |
| | Ashwajith Someshwa | University |
| 2017-2018 | Seamus McKenney- 2 papers in Konry lab | MS in Pharmaceutical Sciences and Biotechnology, Northeastern |
| | Ketaki Adhikari, Namrata Menon, Yuntong Wang , Zhi Lin Shen , Awdhoot Godbole Radhika, Kulkarni , Ria Rajesh Bedi Xinyi Shao , Suchitra Ramesh, Supriya Nagarajan, Viren Bhatia Millicent Gabriel, Ramitha Manivannan | University |

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|---|---|---|
| 2015 -2017 | Sai Mynampati, Rucha Adhav Himali Shroff, Abhishek Chiyyeadu | MS Biotechnology, Northeastern University |
| | Sayalee Potdar, Sneha Pawar Kristy Fang | MS Pharmacology, Northeastern University |
| 02/2014 - 06/2015 | Vinny Motwani | MS Biotechnology, Northeastern University, Currently: Bioassay Development at Momenta Pharmaceuticals<br>Published work Konry lab: one paper |
| 02/2014 - 06/2015 | Abhinav Gupta, Sneha Varghese | MS Biotechnology, Northeastern University<br>Currently: Momenta Pharmaceuticals<br>Sneha Varghese: Laboratory Technician II at Siemens Healthcare |
| 02/2014 - 06/2014 | Micah Amdur-Clark | Undergraduate Student, Pharmaceutical Sciences, Northeastern University |

**Prior supervisory roles:**

**1.**03/2012 - 08/2014 **Dr.Alex Golberg** Postdoctoral fellow at MGH/Harvard Medical School

*Project "Nano-liter immunosorbent assay: reaction kinetics modeling and validation of immunization status"*

**Published work:** Five papers

Currently: Assistant Professor at Tel Aviv University, Israel

**2.**09/2004 - 09/2006 **Alexandra Petrosava** Undergraduate Student at BGU, Department of Biotechnology Engineering

*Project "Development of virus diagnostic tools and optical biosensing"*

**Published work:** One paper

Currently: Senior Research Technician, Columbia University, US

**3.**09/2005 - 09/2006 **Yael Heyman** Undergraduate Student at BGU, Department of Biotechnology Engineering

*Project "Development of electrochemical and optical biosensing "*

**Published work:** Electrochimica Acta ranked #4 journal in electrochemistry.

## IV. SERVICE

### Committees member at Northeastern University

| | |
|---|---|
| 2021- | Graduate Committee, Department of Pharmaceutical Sciences |
| 2019- | Merit review committee chair for Pharm.Sci. Department |
| 2014-2018 | Graduate Committee, Department of Pharmaceutical Sciences |
| 2018-2019 | Admission Committee, Bouvé College of Health Sciences |

2017- 2019 Assessment Committee, Bouvé College of Health Sciences

2015-2016 Graduate Affairs, Bouvé College of Health Sciences

2016 Chair search committee, Department of Pharmaceutical Sciences

2018 Teaching Assistant/Associated Prof. search committee chair, Pharm.Sci.

2014 John Neumeyer Award Committee, Pharm.Sci. Department

2013- Student Portfolio evaluation (Pharm.D), Bouvé College of Health Sciences

2013- Sophomore Pharm. D student interviews, Bouvé College of Health Sciences

**Grant Review Activity**

- NSF- Biosensing and CBET programs
- NIH - NIH/NCI IMAT R21/R33, NIH/P30 grant applications NIAMS Skin Biology and Diseases Resource-based Centers, NIH/Small Business and Technology Transfer (SBIR/STTR) Study Sections
- Medical Research Council (MRC) UK
- Swiss National Science Foundation (SNSF)
- NASA
- Tier1/NEU

**PROFESSIONAL SERVICES AND ACTIVITIES**

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**Editorial Board Member** of Scientific Reports/ Nature

**Editorial Associate** Technology journal

**Editorial Board Member** Austin Journal of Analytical & Pharmaceutical Chemistry

**Editorial Board Member** The Scientific World Journal

**Review Editor** Frontiers in Analytical Chemistry/Editorial Board of Frontiers in Analytical Chemistry

**Reviewer** Nature communications
*Nature Communications* is an open access journal that publishes high-quality research in biology, physics, chemistry, Earth sciences, and all related areas.
Impact factor: 12.357
**Reviewer** Analytical Chemistry
*Analytical Chemistry* is a biweekly peer-reviewed scientific journal published since 1929 by the American Chemical Society.
Impact factor: 6.3
**Reviewer** Biomaterials
Biomaterials is an international journal covering the science and clinical application of biomaterials.
Impact factor: 8.8

**Reviewer** PlosOne
*PLOS One* is a peer-reviewed open access scientific journal published by the Public Library of Science since 2006. The journal covers primary research from any discipline within science and medicine.
Impact factor: 2.806
**Reviewer** Scientific reports/ Nature group journal
*Scientific Reports* is an online open access scientific mega journal published by the Nature Publishing Group, covering all areas of the natural sciences.
Impact factor: 4.122

**Reviewer** Biosensors and Bioelectronics

*Biosensors & Bioelectronics* is the principal international journal devoted to research, design, development and application of biosensors and bioelectronics. It is an interdisciplinary journal serving professionals with an interest in the exploitation of biological materials and designs in novel diagnostic and electronic devices including sensors, DNA chips, electronic noses, lab-on-a-chip. Impact factor: 9.5

**Reviewer** Chemical Communications

*Chemical Communications* is the leading weekly journal for the publication of communications on important developments in the chemical sciences. This journal is renowned as the fastest publisher of articles providing information on new avenues of research, drawn from all the world's major areas of chemical research.
Impact factor: 6.29

**Reviewer** Integrative Biology

*Integrative Biology* provides a unique venue for research that allows expansion of our knowledge of biology by gaining new insights into important biological and biophysical questions through the application of (novel) enabling quantitative tools and/or technologies (from the nanoscale to the macroscale)
Impact Factor 3.294

**Reviewer** Lab on a Chip

*Lab on a Chip* provides a unique forum for the publication of significant and original work related to miniaturisation (on or off chips) at the micro- and nano-scale across a variety of disciplines including: chemistry, biology, bioengineering, physics, electronics, clinical/medical science, chemical engineering and materials science, which is likely to be of interest to the multidisciplinary community that the journal addresses.
Impact factor: 6.9

**Reviewer** Biomicrofluidics

AIP Publishing designed to rapidly disseminate research that elucidates fundamental physicochemical mechanisms associated with microfluidic, nanofluidic, and molecular/cellular biophysical phenomena in addition to novel microfluidic and nanofluidic techniques for diagnostic, medical, biological, pharmaceutical, environmental, and chemical applications.
Impact factor: 2.571

**Reviewer** Analyst

The home of premier fundamental discoveries, inventions and applications in the analytical and bioanalytical sciences.
Impact factor: 3.885

## PARTICIPATION IN SCIENTIFIC CONFERENCES

| | | |
|---|---|---|
| 05/2024 | IQS Barcelona | Invited speaker: ScanDrop - Single cell function analysis |
| 07/2023 | Saclay Paris University | Invited speaker: 3D to Single cell functionomic analysis |
| 05/2022 | Josep Carreras Leukaemia Research Institute, invited lecture | Invited speaker: ScanDrop - Single cell function analysis |
| 2/2022 | BGU, invited lecture | Determining treatment sensitivity in B cell lymphoma by novel microfluidics- based NK cell immunogenicity platform |
| 01/21/2021 | SLAS | Invited speaker: ScanDrop - Single cell function analysis |

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|---|---|---|
| 12/11-12/2019 | Cell Therapy Analytical Development Summit | Invited speaker: An Integrated Microfluidic Platform for Multi-dimensional Analysis and Multi-omic Classifications of Effector Immune Cell Functions |
| 11/07/2019 | Genentech | Invited speaker: Dynamic Analysis of Human Natural Killer Cell Response at Single-Cell Resolution |
| 10/22/2019 | Novartis | Invited speaker: Novel platform technology for single cell functional multi-omic and tumor on-a-chip multi- dimensional analysis |
| 17/10/2019 | Tgen | Invited speaker: Single Cell and 3D Tumor Chip Functional Multi-Omic Analysis |
| 08/05-09/2019 | The Annual Immuno-Oncology Summit | Invited speaker: Dynamic Analysis of Human Natural Killer Cell Response at Single-Cell Resolution in B-Cell Non-Hodgkin Lymphoma |
| 05/14-15/2019 | 5th Annual Single Cell Analysis Congress | Invited speaker: Single Cell Functional Multi-Omic Analysis |
| 02/19-20/2019 | 3rd Annual Precision LBx Summi | Educational |
| 09/26-27/2018 | NK Cell-Based Cancer Immunotherapy | Invited speaker: Dynamic Analysis of Human Natural Killer Cell Response at Single-Cell Resolution |
| 08/19/2018 | 256th ACS National Meeting - American Chemical Society | Invited speaker: Dynamic profiling of anti-tumor immune response at the single-cell resolution by droplet microfluidic cell pairing |
| 04/14-18/2018 | AACR Annual Meeting 2018 | Invited speaker: by NIH IMAT/NCI program director |
| 04/08/18-04/10/18 | UCSC Electrical Engineering Department Seminar Invitation | Invited speaker: Understanding of NK Cell Effector Functions: A Single-Cell Lab-on-a-Chip Perspective |
| 03/26-28/2018 | BIT's 6th Annual Conference of AnalytiX-2018 | Invited speaker: An Integrated Droplet-based Platform for Classification of Lymphocyte Activity and Functional Phenotyping at Single Cell Level |
| 2/2/2018 | MIT Biophysics Seminar Invitation | Invited speaker |
| 12/5-7/2017 | Sensors Global Summit | Invited speaker: Integrated Microfluidic Platform for Rapid Antimicrobial Susceptibility Testing and Bacterial Growth Analysis |
| 12/5-6/2017 | Targeting Innate Immune Cells | Invited speaker: Autologous ex vivo Understanding of NK Cell Effector Functions: A Single-Cell Lab-on-a-Chip Perspective |

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|---|---|---|
| 06/13/2017 | Sandia labs | Invited speaker |
| 07/10-11/2017 | Organ-on-a-Chip World Congress & 3D-Printing | Invited speaker: Biomimetic Tissue-Engineered Technology to Identify Tumor-Stroma Cross Talk and Novel Drug Candidates |
| 06/26-28/2017 | Biodefence World Summit 2017 | Invited speaker: Quantitative Analysis of Bacterial Growth and Rapid Antimicrobial Susceptibility Testing in an Integrated Microfluidic Platform |
| 03/15-16/2017 | Third Annual BioEngineering 2017: BioMEMS/Microfluidics, 3D-Bioprinting, Tissue Engineering & Synthetic Biology | Invited speaker: Correlating Single Cell Interactions to Collective Cellular Responses in 3D Tumor Spheroids Using Droplet Microfluidics |
| 02/14/2017 | SLAS | Invited speaker/ SLAS Innovation Award Finalist : Dynamic Profiling of Anti-Tumor Immune Response at the Single-Cell Resolution by Microfluidic Cell Pairing |
| 09/19/2016 | NK Cell-Based Cancer Immunotherapy | Invited speaker: Understanding of NK Cell Effector Functions: A Single-Cell Lab-on-a-Chip Perspective |
| 08/21-25/2016 | American Chemical Society: Division of Analytical Chemistry | Invited speaker: Dynamic profiling of anti-tumor immune response at the single-cell resolution by droplet microfluidic pairing |
| 07/11-12/2016 | Microfluidics Congress: USA | Chair |
| 06/28-29/2016 | Biodefence World Summit 2016 | Invited speaker: ScanDrop Platform for Microbial Detection and Phenotypic Drug Analysis |
| 03/21-22/2016 | Circulating Biomarkers World Congress 2016 | Invited speaker: Single cell Functional Phenotyping and Phenotypic Drug Profiling in Droplet Microfluidics for Better Targeting of Drug-Resistant Tumors |
| 03/02-03/2016 | NIH single Annual Investigators Meeting | Invited speaker: Development and validation of lab on a chip-based technology for immune regulation studies in cancer |
| 11/11-14/2015 | Single cell analyses, Cold Spring Harbor Meeting | Invited speaker: Droplet microfluidic based Lab On a Chip biotechnology for characterization of single cell dynamics in immune system |

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| 06/26/2015 | Sixth Microfluidics Consortium, Centre for Business Innovation | Invited speaker: Droplet based microfluidic for drug and immunotherapy screening |
| 06/23-24/2015 | Annual Biodetection Technologies: Point-of-Care for Biodefense | Invited speaker: ScanDrop – Portable Lab-on-a-Chip Diagnostic Platform for Ultra Fast Pathogen Detection and Susceptibility Testing |
| 05/01/2015 | Dolomite Microfluidic Workshop, British Consulate (Boston) | Invited speaker: Lab on a chip cell studies and clinical interactions and perspectives |
| 04/19-22/2015 | The ASME 2015 4th Global Congress on NanoEngineering for Medicine and Biology, Minneapolis, MN, | Invited speaker: Live single cell functional phenotyping in droplet nano liter reactors |
| 04/09/2015 | RISE: Research, Innovation, and Scholar-ship Expo, NEU | Poster presentations |
| 04/18-21/2015 | NIH single Annual Investigators Meeting | Invited speaker: Live single cell functional phenotyping in droplet nano liter reactors |
| 03/23-24/2015 | Circulating Biomarkers World Conference | Oral presentation: Live Single Cell Functional Phenotyping in Droplet Micro-Reactors |
| 06/17/2014 | Quantitative digital detection technologies | Invited presenter and Chairperson<br>Oral presentation: Live Single-Cell Functional Phenotyping in Droplet Nanoliter Reactors |
| 4/10/2014 | RISE: Research, Innovation, and Scholar-ship Expo, NEU | Poster presentation: Development of continuous interstitial insulin monitoring approach in T1D for optimizing the performance of bionic pancreas systems |
| 8-14/-2/2013 | NanoSensorPhotonics | Oral presentation: Microfluidic Nano-Liter Platforms and Bioartificial “lympoid-like” organ for immune regulation |
| 17-19/09/2012 | Applied Pharmaceutical Analysis - 2012 | Oral presentation: Development of novel assays and platforms for dynamic biomarker and cell monitoring |
| 11/05-09/2011 | Nano Sensor Photonics 2011 | Oral presentation: Microfluidic Nano-Liter Platforms and Bioartificial “lympoid-like” organ for immune deficiency regulation in burn wound and cancer patients |
| 06/21/2011 | DARPA and FDA Workshop on Preclinical Platforms for Evaluating Medical Countermeasure Efficacy and Toxicity Arlington, VA,US | Educational |
| 06/14/2011 | Tech Connect World 2011,Boston, US | Educational |
| 09/10/2010 | Cellular Metabolism and Cancer, US | Educational |

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| 06/06/2010 | Cancer Proteomics Conference<br>Berlin, Germany | Presented: Peptide and Dendritic Cells - Laden Scaffolds for the Cancer and Burn wound Vaccine (Poster) |
| 02/24/2010 | The 34th Annual SAC Poster Session, US | A Microfluidic Sorting Method Based on Secreting Molecules for Single Cell Analysis (Poster) |
| 10/30/2009 | 17th Annual Irwin M. Arias Symposium Bridging Basic Science and Liver Disease, Boston | Educational |
| 07/04/2008 | Gordon Research Conference on Bioanalytical Sensors, Bryant University, Smithfield, RI | Microsphere-Based, Fiber-Optic DNA and Protein Microarrays for Simultaneous Detection of Both Bacterial DNA and Induced Inflammatory Mediators IL-6 and IL-8 (Poster) |
| 05/10/2006 | The Ninth World Congress on Biosensors Toronto, Canada | Electrogenerated Indium-Tin Oxide-Coated Glass Biochip Surfaces with Photosensitive Interfaces: Surface Analysis (poster) |
| 12/10/2005 | The First France-Israel Bi-National Workshop<br>on NanoBioPhotonics<br>Israel | Physico-chemical Studies of ITO-Coated Fiber-Optic Biosensor (Poster)<br>Indium-Tin-Oxide-Coated Fiber-Optic Immunosensor For Detection Of Anti-Ebola Virus Antibodies (Poster) |
| 06/03/2005 | The 6th Minerva Student Symposium on Molecular Based Devices Weizmann Institute of Science<br>Rehovot, Israel | Optical Fiber Immunosensor Based on Poly(Pyrrole-Benzophenone) Film for Detection of Antibodies to Viral Antigen (Poster) |
| 02/20/2005 | FRISNO-8, the 8th European /French Israeli Symposium on Nonlinear and Quantum Optics, Israel | Physicochemical Studies of ITO-Coated Fiber-Optic Biosensor (Poster) |
| 06/09/2004 | Electro-Optic BGU & Industry Workshop, Israel | Physicochemical Studies Of ITO-Coated Fiber-Optic Biosensor (Poster) |
| 6-9/05/2004 | The 8th World Congress on Biosensors Granada, Spain | Indium - Tin Oxide - Coated Fiber Optic Immunosensor for The Detection of Viral Antigen (Poster) |
| 4/12/2003 | The 3rd France-Israeli Workshop on Biosensors, Biochips & Nanobiotechnology Israel | Indium-Tin Oxide-Coated Fiber Optic Immunosensor for the Detection of Anti Hepatitis C Virus –E2 Envelope Protein (Poster) |