

## CURRICULUM VITAE

**Tania (Tali) Konry, PhD**


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**Current position:** Assistant Professor, Department of Pharmaceutical Sciences, Bouvé College of Health Sciences at Northeastern University,  
Visiting Assistant Professor of Surgery (Bioengineering), Harvard Medical School/MGH/CEM

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

**E-mail:** t.konry@neu.edu

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**Education**


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

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**Postdoctoral Training**


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12/2007-04/2009	Chemistry Advisor: Prof. David R.Walt	Tufts University Medford, MA, US
04/2009-03/2011	Bioengineering Advisor: Prof. Martin L. Yarmush	Center for Engineering in Medicine Massachusetts General Hospital, Harvard Medical School, Shriners Hospitals for Children, Boston, MA, US

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**Academic Appointments**


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08/2013-	Assistant Professor	Pharmaceutical Sciences	Northeastern University
08/2013-	Visiting Assistant Professor of Surgery	Surgery (Bioengineering)	Harvard Medical School/ MGH
03/2011-2013	Instructor in Surgery	Bioengineering	Harvard Medical School
03/2011-2013	Nano- and Microsystems Bioengineering	Bioengineering	Center for Engineering in Medicine

	Group co leader		
07/2011-2013	Assistant in Bioengineering	Bioengineering	Massachusetts General Hospital
04/2009-03/2011	Postdoctoral Fellow	Bioengineering	Harvard Medical School, Massachusetts General Hospital, Shriners Hospitals for Children
12/2007-04/2009	Postdoctoral Fellow	Department of Chemistry	Tufts University, Medford, MA
10/2002-08/2007	Teaching Assistant and Laboratory Instructor	Department of Biotechnology Engineering	Ben-Gurion University of the Negev Beer-Sheva, Israel

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### Other Professional Positions

09/2005-10/2005	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
10/2004-12/2004	Visiting research scientist Funded by: European Commission Center	European Commission, Institute for Health and Consumer Protection Ispra, Italy,
07/2003-09/2007	Supervisor 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
08/2001-10/2002	Medical Intern at Pathology Laboratories	Soroka Hospital, Beer-Sheva, Israel
09/2001-10/2001	Visiting Research Scientist Funded by: Senspol EU network	Laboratory of Organic Electrochemistry and Redox Photochemistry, Joseph Fourier University, Grenoble, France

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### Research Funding Information

<b>08/2015-07/2016</b>	Principal Investigators: T.Konry (NEU), S. Gaudet(DFCI)	DFCI/NU Joint Program in Cancer Drug Development	<b>Funded</b>
<b>07/2015-06/2016</b>	Principal Investigators: T.Konry, M. Wanunu	Tier 1, Internal Grant Programs in Support of Interdisciplinary Research, Northeastern University	<b>Funded</b>
<b>2015-2016</b>	Principal Investigator	Becton Dickinson (BD) Biosciences immunology research grant	<b>Funded</b>
<b>2013-2016</b>	Principal Investigator T.Konry	NIH/NCI, R21 [RM11-014] – Exceptional Innovative Tools and Technologies for Single Cell Analysis	<b>Funded</b>

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2013-2016	Principal Investigator S.Russell Co- Principal Investigator T.Konry	Juvenile diabetes research foundation (JDRF) Minimally Invasive Continuous Insulin Monitoring in Interstitial Fluid	<b>Funded</b>
2012-2014	Consultant T.Konry	Multiple Myeloma Research Foundation, US	<b>Funded</b>
2011-2013	Principal Investigators: M.Yarmush, T.Konry	CIMIT - Center for Integration of Medicine and Innovative Technology, US	<b>Funded</b>
2010-2013	Principal Investigator T.Konry	Shriners Burn Hospital Fellowship	<b>Funded</b>

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**Reviewer and Editorial board in journals:**

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<b>Editorial Associate</b>	<b>Technology journal</b>
<b>Editorial Board Member</b>	<b>Austin Journal of Analytical &amp; Pharmaceutical Chemistry</b>
<b>Editorial Board Member</b>	<b>The Scientific World JOURNAL</b> <i>The Scientific World JOURNAL</i> is a peer-reviewed, open access journal covering a wide range of subjects in the life sciences and environmental sciences. The journal's Editorial Board as well as its Table of Contents are divided into subject-specific domains, and currently there are around 70 domains included within the journal's scope. <b>Impact factor: 1.524</b>
<b>Review Editor</b>	<b>Frontiers in Analytical Chemistry</b> Editorial Board of Frontiers in Analytical Chemistry
<b>Reviewer</b>	<b>Biosensors and Bioelectronics</b> <i>Biosensors &amp; Bioelectronics</i> 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. <b>Impact factor: 6.4</b>
<b>Reviewer</b>	<b>Chemical Communications</b> <i>Chemical Communications</i> 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. <b>Impact factor: 5.5</b>
<b>Reviewer</b>	<b>Integrative Biology</b> <i>Integrative Biology</i> 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) <b>Impact Factor 4.309</b>

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**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: 6.1**

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**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: 3.357**

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**Reviewer** **Analyst**

The home of premier fundamental discoveries, inventions and applications in the analytical and bioanalytical sciences. **Impact factor: 3.96**

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**Honors and Prizes:**

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2015	Phase 1 finalist at Follow That Cell Challenge/ Single cell analysis	NIH	Lab on a chip functional single cell phenotyping
2015	BD Biosciences immunology research grants	Becton Dickinson (BD)	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 for work done at Northeastern University
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
10/2006 - 11/2007	Woman in Science Award 2006	Israel Ministry of Science	PhD achievements
11/2006	Outstanding PhD Student Award	Prof. Shemona Geresh Award from Department of Biotechnology Engineering, Ben Gurion University	Indium-Tin Oxide-Coated Fiber Optic Immunosensors and Bio-Optic Devices

09/2006	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
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 <i>Kreitman</i> School of Advanced Graduate Studies, Ben-Gurion University of the Negev Beer-Sheva, Israel	PhD Research
09/2004	Scientific Award	Award from European Commission Institute for Health and Consumer Protection Ispra, Italy	Development of advance biotechnology devices to monitor infectious diseases
09/2001	Scientific Award	Award from SENSPOL	European Network on Sensors for Monitoring Water Pollution

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### Report of Teaching:

2013-	Lecture Northeastern University Department of Pharmaceutical Sciences	- <i>Pharmaceutics 1</i> - <i>Pharmaceutics 2</i>
2014-	Lecture Northeastern University Department of Pharmaceutical Sciences	<i>Pharmaceutics Laboratory</i>
09/2006-09/2007	Lecture and Laboratory instructor Ben-Gurion University of the Negev Beer-Sheva, Israel	Teaching in the following course: <i>Central Nervous System in Biotechnology aspect</i> Laboratory instructor in the following courses: - <i>Genetic engineering and molecular biology</i>
09/2005-09/2007	Lecture and Laboratory instructor Ben-Gurion University of the Negev Beer-Sheva, Israel	Teaching in the following course: - <i>Nuclear acids for Biotechnology Engineering (molecular biology)</i> - <i>Genetic for Biotechnology</i> Laboratory instructor in the following courses: - <i>Genetic engineering and molecular biology</i>

09/2004- Laboratory Instructor -*Biochemistry*  
09/2007 Ben-Gurion University of -*Genetic engineering*  
the Negev Beer-Sheva,  
Israel

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#### Research Supervisory:

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3/2014 - **Dr. Saheli Sarkar** Postdoctoral fellow at Northeastern University,  
Department of Pharmaceutical Sciences  
**Project** “ Microfluidic applications towards development of cell-cell interaction and migration protocols”

#### Published work

1. **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, **2015**, 6, 334. **IF 3.31 (5 Year Impact Factor)**
2. 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. **Impact Factor 3.741**
- 3.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**
- 4.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 6.115**
- 5.**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 6.115**

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12/2013 -1/2016 **Dr. Noa Cohen** Research Associate at Northeastern University,  
Department of Pharmaceutical Sciences  
**Project** “ Microfluidic solutions to real time/dynamic bioassays development”

#### Published work

1. **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. Impact Factor 6.451**
- 2.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. **Impact Factor 3.741**
- 3.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**
- 4.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 6.115**
5. 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, **2015**, 6, 334. **IF 3.31 (5 Year Impact Factor)**.
- 6.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 6.115**

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09/2013 - **Pooja Sabhachandani** Graduate student at Northeastern University, Department  
of Pharmaceutical Sciences

**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)

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### **Published work**

1. 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. Impact Factor 6.451**
2. **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. **Impact Factor 3.741**
3. 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**
4. **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 6.115**
5. 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, **2015**, 6, 334. **IF 3.31 (5 Year Impact Factor)**.
6. S. Sarkar, N. Cohen, **P. Sabhachandania**, T. Konry, Phenotypic drug profiling in droplet microfluidics for better targeting of drug-resistant tumors, Lab Chip, 15, 4441-4450, 2015. **IF 6.115**

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09/2015 -	<b>Sai Mynampati</b>	Masters Student Biotechnology, Northeastern University
09/2015 -	<b>Abhishek Chiyyeadu</b>	Masters Student Biotechnology, Northeastern University
09/2015 -	<b>Sayalee Potdar</b>	Masters Student Pharmacology, Northeastern University
09/2015 -	<b>Sneha Pawar</b>	Masters Student Pharmaceutical Sciences, Northeastern University
09/2015 -	<b>Kristy Fang</b>	Undergraduate student, Northeastern University
01/2016 -	<b>Rucha Adhav</b>	Masters Student Biotechnology, Northeastern University
01/2016 -	<b>Himali Shroff</b>	Masters Student Biotechnology, Northeastern University

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02/2014 - 06/2015	<b>Vinny Motwani</b>	Master student Biotechnology, Northeastern University, <b>Currently: Bioassay Development Co-op at Momenta Pharmaceuticals</b>
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### **Published work**

1. 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, **2015**, 6, 334. **IF 3.31 (5 Year Impact Factor)**

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02/2014 - 06/2015	<b>Abhinav Gupta</b> <b>Sneha Varghese</b>	Master students, Biotechnology, Northeastern University <b>Currently:</b> Abhinav Gupta: Co Op at Momenta Pharmaceuticals Sneha Varghese: Laboratory Technician II at Siemens Healthcare
02/2014 - 06/2014	<b>Micah Amdur-Clark</b>	Undergraduate Student, Pharmaceutical Sciences, Northeastern University
03/2012 - 08/2014	<b>Dr. Alex Golberg</b>	Postdoctoral fellow at Center for Engineering in Medicine, Massachusetts General Hospital, Harvard Medical School, Shriners Hospitals for Children, Boston, MA, US <b>Currently: Assistant Professor at Tel Aviv University, Israel</b>

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

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### **Published work**

1. 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. **Impact Factor 6.451**
2. **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*, 2014. **Impact Factor 3.234**
3. T. Konry, **A. Golberg**, M. Yarmush, Live single cell functional phenotyping in droplet nano-liter reactors, *Scientific Reports : Nature Publishing Group*, 3, 3179, 2013. **Impact Factor 5.578**
4. **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. **Impact Factor 3.741**
5. 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. **Impact Factor 1.342**

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09/2004 - 09/2006    **Alexandra Petrosava**    Undergraduate Student at BGU, Department of Biotechnology Engineering  
**Currently: Senior Research Technician, Columbia University, US**

**Project** "Development of virus diagnostic tools and optical biosensing" Published manuscript in ***Sensors and Actuators*** ranked the most cited journal in Instruments and Instrumentation.

### **Published work**

1. **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*, 122, 578, 2007. **Impact Factor 2.234**

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09/2005 - 09/2006    **Yael Heyman**    Undergraduate Student at BGU, Department of Biotechnology Engineering  
**Currently: Graduate student, Weizmann Institute, Israel**

**Project** "Development of electrochemical and optical biosensing " Published manuscript in ***Electrochimica Acta*** ranked #4 journal in electrochemistry.

### **Published work**

- 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. **Impact Factor 4.086**

### **Peer-Reviewed Publications:**

1. 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**
2. 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*, accepted 2016.
3. 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 6.115**
4. 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 6.115**
5. 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 3.31 (5 Year Impact Factor)**
6. 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 3.741**



7. 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 6.451**
8. 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 3.234**
9. **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 5.578**
10. **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.
11. 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 3.234**
12. 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 1.342**
13. **T. Konry** et al., Particles and Microfluidic Merged: Perspective of highly Sensitive Diagnostic Detection, *Microchimica Acta*, 176, 3-4, 251, 2012. **IF 3.234**
14. **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 8.368**
15. **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 6.451**
16. **T. Konry**, D.R. Walt, "Intelligent medical diagnostics via molecular logic". *J. Am. Chem. Soc.*,131 (37), 13232, 2009. **IF 12.113**
17. **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 5.636**
18. **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 4.086**
19. **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 3.545**
20. **T.Konry**, M.Bouhird, M. Whelan, F. Rossi, R. S.Marks, Electrogenerated ITO-coated glass chip surfaces, *Biosensors and bioelectronics*, 22, 2230, 2007. **IF 6.451**
21. 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*, 122, 578, 2007. **IF 2.234**
22. **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 5.636**
23. 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 1.867**
24. **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 5.636**

## PhD Thesis

**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*

## Participation in Scientific Conferences:

03/02-03/2016	NIH single Annual Investigators Meeting	<i>Invited speaker: Development and validation of lab on a chip-based technology for immune regulation studies in cancer</i>
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11/11-14/2015	Single cell analyses, Cold Spring Harbor Meeting	<i>Invited speaker: Droplet microfluidic based Lab On a Chip biotechnology for characterization of single cell dynamics in immune system</i>
06/26/2015	Sixth Microfluidics Consortium, Centre for Business Innovation	<i>Invited speaker: Droplet based microfluidic for drug and immunotherapy screening</i>
06/23-24/2015	Annual Biodetection Technologies: Point-of-Care for Biodefense	<i>Invited speaker: ScanDrop – Portable Lab-on-a-Chip Diagnostic Platform for Ultra Fast Pathogen Detection and Susceptibility Testing</i>
05/01/2015	Dolomite Microfluidic Workshop, British Consulate (Boston)	<i>Invited speaker: Lab on a chip cell studies and clinical interactions and perspectives</i>
04/19-22/2015	The ASME 2015 4th Global Congress on NanoEngineering for Medicine and Biology, Minneapolis, MN,	<i>Invited speaker: Live single cell functional phenotyping in droplet nano liter reactors</i>
04/09/2015	RISE: Research, Innovation, and Scholarship Expo, NEU	<i>Poster presentations</i>
04/18-21/2015	NIH single Annual Investigators Meeting	<i>Invited speaker: Live single cell functional phenotyping in droplet nano liter reactors</i>
03/23-24/2015	Circulating Biomarkers World Conference	<i>Oral presentation: Live Single Cell Functional Phenotyping in Droplet Micro-Reactors</i>
06/17/2014	Quantitative digital detection technologies	<i>Invited presenter and Chairperson Oral presentation: Live Single-Cell Functional Phenotyping in Droplet Nanoliter Reactors</i>
4/10/2014	RISE: Research, Innovation, and Scholarship Expo, NEU	<i>Poster presentation: Development of continuous interstitial insulin monitoring approach in T1D for optimizing the performance of bionic pancreas systems</i>
8-14/2/2013	NanoSensorPhotonics	<i>Oral presentation: Microfluidic Nano-Liter Platforms and Bioartificial “lympoid-like” organ for immune regulation</i>
17-19/09/2012	Applied Pharmaceutical Analysis - 2012	<i>Oral presentation: Development of novel assays and platforms for dynamic biomarker and cell monitoring</i>
11/05-09/2011	Nano Sensor Photonics 2011	<i>Oral presentation: Microfluidic Nano-Liter Platforms and Bioartificial “lympoid-like” organ for immune deficiency regulation in burn wound and cancer patients</i>
06/21/2011	DARPA and FDA Workshop on Preclinical Platforms for Evaluating Medical Countermeasure Efficacy and Toxicity Arlington, VA,US	<i>Educational</i>

06/14/2011	TechConnect World 2011, Boston, US	<i>Educational</i>
09/10/2010	Cellular Metabolism and Cancer, US	<i>Educational</i>
06/06/2010	Cancer Proteomics Conference Berlin, Germany	<i>Presented: Peptide and Dendritic Cells - Laden Scaffolds for the Cancer and Burn wound Vaccine (Poster)</i>
02/24/2010	The 34th Annual SAC Poster Session, US	<i>A Microfluidic Sorting Method Based on Secreting Molecules for Single Cell Analysis (Poster)</i>
10/30/2009	17th Annual Irwin M. Arias Symposium Bridging Basic Science and Liver Disease, Boston	<i>Educational</i>
07/04/2008	Gordon Research Conference on Bioanalytical Sensors, Bryant University, Smithfield, RI	<i>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)</i>
05/10/2006	The Ninth World Congress on Biosensors Toronto, Canada	<i>Electrogenerated Indium-Tin Oxide-Coated Glass Biochip Surfaces with Photosensitive Interfaces: Surface Analysis (poster)</i>
12/10/2005	The First France-Israel Bi- National Workshop on NanoBioPhotonics Israel	<i>Physico-chemical Studies of ITO-Coated Fiber-Optic Biosensor (Poster) Indium-Tin-Oxide-Coated Fiber-Optic Immunosensor For Detection Of Anti-Ebola Virus Antibodies (Poster)</i>
06/03/2005	The 6th Minerva Student Symposium on Molecular Based Devices Weizmann Institute of Science Rehovot, Israel	<i>Optical Fiber Immunosensor Based on Poly(Pyrrole- Benzophenone) Film for Detection of Antibodies to Viral Antigen (Poster)</i>
02/20/2005	FRISNO-8, the 8th European /French Israeli Symposium on Nonlinear and Quantum Optics, Israel	<i>Physicochemical Studies of ITO-Coated Fiber-Optic Biosensor (Poster)</i>
06/09/2004	Electro-Optic BGU & Industry Workshop, Israel	<i>Physicochemical Studies Of ITO-Coated Fiber-Optic Biosensor (Poster)</i>
6-9/05/2004	The 8 <sup>th</sup> World Congress on Biosensors Granada, Spain	<i>Indium - Tin Oxide - Coated Fiber Optic Immunosensor for The Detection of Viral Antigen (Poster)</i>
4/12/2003	The 3 <sup>rd</sup> France-Israeli Workshop on Biosensors, Biochips & Nanobiotechnology Israel	<i>Indium-Tin Oxide-Coated Fiber Optic Immunosensor for the Detection of Anti Hepatitis C Virus –E2 Envelope Protein (Poster)</i>

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