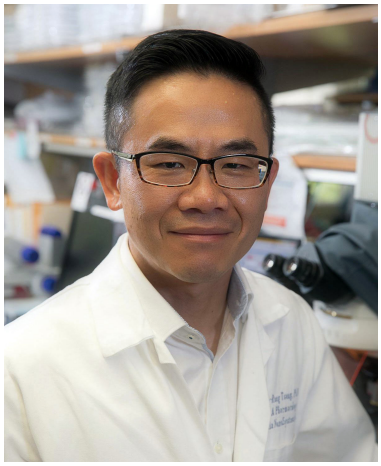
Curriculum Vitae



Hsian-Rong Tseng (曾憲榮)

Professor
Department of Molecular & Medical Pharmacology
Crump Institute for Molecular Imaging
David Geffen School of Medicine at UCLA
570 Westwood Plaza
California NanoSystems Institute Building, room 4317
Los Angeles, CA 90095-1770
Office: (310) 794-1977
Fax: (310) 206-8975
Email: hrtseng@mednet.ucla.edu

QUALIFICATIONS/ADVISORS

B Sc	(1989-1993)	Chemistry, Tunghai University/Taichung/Taiwan
Ph D	(1993-1998)	Organic Chemistry, National Taiwan University/Taipei/Taiwan
Undergraduate Advisor		Prof. Cheng-Tung Lin (Tunghai University)
Graduate School Advisors		Prof. Ta-shue Chou (Academia Sinica)
		Prof. Tien-Yau Luh (National Taiwan University)
Postdoctoral Advisors		Prof. Sir J. Fraser Stoddart (UCLA) – 2016 Nobel Prize in Chemistry
		Prof. Jim R. Heath (Caltech)

APPOINTMENTS

2013-	Professor, Department of Molecular and Medical Pharmacology David Geffen School of Medicine at UCLA
2009-2013	Associate Professor (tenured), Department of Molecular and Medical Pharmacology David Geffen School of Medicine at UCLA
2003-2009	Assistant Professor, Department of Molecular and Medical Pharmacology David Geffen School of Medicine at UCLA
2000-2003	Postdoctoral Researcher, Department of Chemistry and Biochemistry University of California, Los Angeles
1998-2000	Second Lieutenant of the Combined Service Force, Taipei, Taiwan

AWARDS/HONORS

1998	"PhD Dissertation Award", Chinese Chemical Society/Taipei/Taiwan
2003	Chancellor's Award for Postdoctoral Research University of California, Los Angeles
2004	Seed Grant – Faculty Development Award

	David Geffen School of Medicine at UCLA
2004	Participant in the N.A.S. Symposium for Frontiers in Science
2005	Arthur K. Doolittle Award, PMSE Division, American Chemical Society
2010	Author Profile by Angewandte Chemie. *Angew. Chem. Int. Ed.* **2010**, 49: 9036.
2012	RIKEN Visiting Scholar Fellowship, Tokyo, Japan
2017	The 8th Alumni Model of Tunghai University, Taiwan
2018	Outstanding Alumni of Pingtung Middle School (Alma mater)
2019	Liquid Biopsy Success Story, Innovative Molecular Analysis Technologies (IMAT) Program, National Cancer Institute
2020	Overseas Outstanding Youth Award by the Federation of Returned Overseas Chinese

AREAS OF RESEARCH INTEREST

Our research interests are to develop nanostructured materials and microfluidic platforms as enabling technologies for facilitating the advancement of molecular diagnostics (imaging) and therapeutics, as well as in vitro molecular diagnostics. We envision that a systems-oriented integration of *in vivo* molecular diagnostics/therapeutics and *in vitro* molecular diagnostics could lead to major paradigm shifts in the fields of drug discovery and clinical patient management.

PROFESSIONAL ACTIVITES

Internal

Member, Pharmacology EDI Committee	2020-present
Member, Faculty Advisory Committee for the Asia Pacific Center (APC)	2018-2022
Member, Taiwan Studies Steering Committee	2018-2022
Member, California NanoSystems Institute	2009-present
Member, Broad Stem Cell Research Canter	2009-present
NIH-NanoSystems Biology Cancer Center	2006-2010
Faculty, Biomedical Physics Interdepartmental Program at UCLA	2006-present
Faculty, Bioengineering Department at UCLA	2006-present
Pharmacology Seminar Organization Committee	2005-2006
Pharmacology Graduate Training Committee	2005-2010
Member, UCLA's Jonsson Comprehensive Cancer Center	2005-present
Medical Scientist Training Program (MSTP) Admissions Committee	2004-2014
Faculty, UCLA Graduate Programs in Bioscience	2004-present
Member, Crump Institute for Molecular Imaging	2003-present

External

Advanced R&D Advisory Committee member, ITRI, Taiwan	2022-2025
Founder, Eximius Diagnostics Corporation	2021-present
Executive Board member, SoCal Monte Jade Association	2020-present
Scientific Advisory Board member, Qiagen Digital PCR	2020-present
Editorial Board Member, Extracellular Vesicles and Circulating Nucleic Acids	2020-present
Founder, Pulsar Therapeutics Corp.	2017-present
Editorial Board Member, Advanced Materials Technologies (Wiley)	2016-present
Honorary Adjunct Professor, National Chiao Tung University, Taiwan	2016-2019
Consultant, Sorrento Therapeutics	2015-2017
Founder, FetoLumina Technologies Corp.	2013-2019

Guest Editor, Proceedings of the National Academy of Sciences, USA	2011
Founder, CytoLumina Technologies Corp.	2010-present
Member of SAB, NanoPacific Holding LLC.	2009-2011
Founder and Chief Scientific Advisor, Cellfluidics LLC.	2008-2009
Co-chair, 5th International Conference on Materials for Advanced Technologies	2009
Associate, Momentum BioSciences, LLC.	2007-2009
Consultant for Siemens Biomarker Solution, Inc.	2004-2006
Reviewer for National Genomic Program (NRPGM Review) Taiwan	2005

Peer Reviewing of Research Papers

Account of Chemical Research	ACS Nano
Angewandte Chemie	Analytical Chemistry
Advanced Functional Materials	Advanced Healthcare Materials
Advanced Materials	Chemical Communications
Journal of American Chemical Society	Journal of Organic Chemistry
Lab on a Chip	Langmuir
Nano Letters	Nature Biotechnology
Nature Materials	Nature Nanotechnology
Organic Letters	Physical Chemistry Chemical Physics
PNAS	Small

Peer Reviewing of Research Grant Applications

Department of Energy
Department of Defense (Army Research Office)
U.S. Civilian Research & Development Foundation (CRDF)
The Kentucky Science and Engineering Foundation
National Science Foundation (NSF), SBIR Panel
National Institutes of Health (NIH), SBIR
UC Discovery Grants
Pennsylvania Department of Health
NSF Review Panel, Renewal Review of National Nanotechnology Infrastructure Network (NNIN)
European Research Council
Defense Threat Reduction Agency (DTRA)
Ad hoc member, NIH Instrumentation and Systems Development (ISD) study sections, 2013-2020
Ad hoc member, NIH Interdisciplinary Molecular Sciences and Training (IMST) study sections, 2015
Reviewer, NIH Special Emphasis Panel/Scientific Review Group 2015/05 ZCA1 TCRB-5 (M3)
Reviewer, NIH Special Emphasis Panel/Scientific Review Group 2016/01 ZRG1 BST-X (55)
Reviewer, NIH Special Emphasis Panel/Scientific Review Group 2016/10 ZCA1 TCRB-6 (O1)
Ad hoc member, NCI Cancer Biomarkers study section (CBSS) 2017-2019
Reviewer, NIH Special Emphasis Panel/Scientific Review Group 2017/05 ZCA1 TCRB-T (M2)
Reviewer, NIH Special Emphasis Panel/Scientific Review Group 2017/05 ZCA1 TCRB-Q (M4)
Reviewer, NIH/CSR Cancer Diagnostics and Treatment (CDT) SBIR/STTR study section, 2017-2022
Reviewer, NIH Special Emphasis Panel/Scientific Review Group 2019/01 ZCA1 TCRB-J (J1)

RESEARCH COLLABORATORS

Assistance Researchers/Scientists

Dr. Shuang Hou	2013-2018

Dr. Min Song		2013-2017
Dr. Sangjun Lee		2015-2017
Dr. Yazhen Zhu		2017-

Visiting Scholars/Physicians

Prof. Anchi Yeh	Chengshiu University, Taiwan	2006-2007
Prof. KiBum Lee	Rutgers, the State University of New Jersey	2007
Prof. Chen Shao	4th Military Medical University, Xian, China	2011-2012
Dr. Xiaohong Shi	Beijing Hospital, Beijing, China	2012-
Dr. Yi Liu	307 Hospital, Beijing, China	2012
Prof. Jinliang Peng	Shanghai Jiao Tong University, China	2012-2013
Dr. Wenfeng Fang	Cancer Center, Sun Yat-sen University, China	2013
Dr. Jeff Chen	Physician, National Taiwan University, Taiwan	2013
Prof. Zunfu Ke	Associate Professor, Sun Yat-sen University, China	2014-2015
Prof. Shengkun Sun	Associate Professor, Urology, 301 Hospital, China	2014-2015
Dr. Li-Ching Chen	Physician, Ob-Gyn, Cathay Hospital, Taipei , Taiwan	2014
Dr. Xinfang Liao	Southern Medical University, China	2015-2016
Dr. Yazhen Zhu	Physician, Guangdong Provincial Hospital of TCM, China	2015-2017
Prof. Fang Wang	Associate Professor, Fudan University, Shanghai, China	2016-2017
Prof. Qian Ban	Lecture, School of Life Science, Anhui University, China	2017-2018
Prof. Wen-Qiao Hui	Assistant researcher, Anhui Academy of Agriculture Sciences, China	2017-2018
Prof. Meng Meng	Associate Professor, Nankai University, China	2017-2018
Dr. Howard Chung	Physician, Taipei Medical University, Taiwan	2017-2018
Dr. Na Sun	Postdoctoral fellow, Suzhou Institute of Nano-tech and Nano-bionics, Chinese Academy of Sciences, China	2018-2021
Dr. Shih-Jie Chou	Assistant Researcher, National Yang-Ming University, Taiwan	2018-2019
Prof. Shin-Pon Ju	Professor, National Sun Yat-sen University, Taiwan	2018-2019
Dr. Hongtao Liu	Molecular pathologist, Department of Pathology, Qian-fo-shan Hospital Affiliated to Shandong University, China	2018-2020
Prof. Tao Chen	Associate Professor, Zhejiang Sci-Tech University, China	2018-2019
Dr. Lei Li	Attending Physician, Shandong Provincial Hospital Shandong University, China	2019-2020
Dr. Shan Wang	Attending Physician, Shandong Provincial Hospital Shandong University, China	2019-2020

Postdoctoral Researchers	**Current Positions**	
Dr. Jun Wang	Staff Scientist, DOE Pacific Northwest National Lab.	2004-2005
Dr. Maksudul M. Alam	Research Scientist, InnoSense LLC.	2004-2005
Dr. Guodong Sui (SOMI Fellow)	Professor, Fudan University, China	2004-2006
Dr. Jinyi Wang	Professor, Northwest A&M University, China	2004-2006
Dr. Weixing Lu (SOMI Fellow)	Senior Research Scientist, Physical Optics Corp.	2005-2006
Dr. Clifton Kuang-Fu Shen	CSO, Elf Technologies, Australia	2006-2007
Dr. Weiyu Lin	Assistant Professor, Kaohsiung Medical University	2006-2011
Dr. Kan Liu	Professor, Wuhan Technology University	2007-2008
Dr. Yanju Wang	Senior Scientist, GE Global Research Center, Shanghai	2005-2009
Dr. Jing Sun	Professor, Dalian Medical University, China	2006-2009

Dr. Ken-ichiro Kamei	Associate Professor, Kyoto University, Japan	2006-2010
Dr. Shutao Wang	Professor, Chinese Academy of Science	2007-2010
Dr. Hao Wang	Professor, Chinese Academy of Science	2007-2011
Dr. Jian Liu	Professor, Suzhou University, China	2010-2011
Dr. Libo Zhao	Assistant Professor, Chinese Academy of Science	2010-2012
Dr. Mitch Garcia (SOMI fellow)	Clinical Project Manager at Research Assist	2010-2013
Dr. Shuang Hou	Assistant Researcher at UCLA	2011-2013
Dr. Yu-Shang Hsiao	Assistant Professor at National Chiao Tung University	2013
Dr. John Y-T Lu	Oncology Fellow at USC	2012-2014
Dr. Jingzhao Song	Postdoc, University of Pennsylvania	2013-2014
Dr. Jin-sil Choi	Assistant Professor, Hanbat National University	2013-2017
Dr. Jeff Chen	Pathology Resident, Washington University St. Louis	2014-2017
Dr. Alex Yu-Jen Jan	IM Resident, Allegheny General Hospital, Harvard	2017-2019
Dr. Phil Huang	LEAP Program Fellow	2017-2018
Dr. Peng Yang		2017-2021
Dr. Pin-Jung (Amy) Chen		2018-2019
Dr. Rei-Hong Kao	LEAP Program Fellow	2018-2019
Dr. Yingying Yang		2018-2019
Dr. Yi-Te Lee		2019-
Dr. Jasmine Wang		2019-
Dr. Benjamin Tran	UCLA Surgery Resident	2020-2022
Dr. Jingjing Xue	Professor, Zhejiang University	2020-2021
Dr. Junseok Lee		2021-
Dr. Rashmi Mohanty		2021-2022
Dr. Hyo Yong Kim		2021-

Graduate Students

Dr. Zeta T. F. Yu (Pharmacology, received PhD degree in June 2009)	2004-2009
Dr. Shuang Hou (Visiting student, Chinese of Academy of Science)	2006-2007
Dr. Michael Masterman Smith (Pharmacology, jointly with Prof. Kornblum)	2006-2010
Dr. Kuan-Ju Chen (Biomedical Engineering, received PhD degree in June 2012)	2008-2012
Dr. Qinglin Shen (Visiting Student, Wuhan University)	2011-2013
Jiantong Dong (Visiting Student, Peking University)	2017-2019
Zhihao Zhang (Visiting Student, Fudan University)	2017-2019
Cen Zhang (Visiting Student, Sothern Medical University)	2019-2021
Jing Wang (Visiting Student, Capital Medical University)	2021-

Graduate Students on Rotation

Richard R. Carlson (ACCESS)	2004
Yuguo Lei (Pharmacology)	2004
Calvin Peng (ACCESS)	2004
Karla Coti (Department of Chemistry and Biochemistry)	2004-2006
Kishin Gupta (MSTP)	2005
David Nathanson (Pharmacology)	2005
Dan Rohle (Pharmacology)	2006
Esther Richler (ACCESS)	2006
Golan Kaifir (ACCESS)	2006
Jun Feng (Pharmacology)	2006

Yi-Chun Chen (Visiting student, National Taiwan University)	2007
Cha-Chun Chen (Visiting student, Tangkang University, Taiwan)	2007-2008
Keyu Li (Pharmacology)	2008
Nangang Zhang (Visiting student, Wuhan University)	2008
Fang Guo (Visiting student, Wuhan University)	2008
Gwen Owens (MSTP)	2009
Gang Yang (Biomedical Engineering)	2009
Wen Gu (Pharmacology)	2009
Melody Pei (ACCESS)	2010
Xiaowen Xu (Biomedical Engineering)	2011-2012
Petar Antovski (Biomedical Engineering)	2018

Undergraduate Students

Samuel Chan (Department of Chemistry & Biochemistry)	2004-2005
Stephanie Lee (Department of Bioengineering, Columbia University)	2004
Yaoyao (Jessie) Guo (Department Chemistry & Biochemistry)	2004-2005
Stavros Savvas (Department of Psychology)	2004-2006
Jun Feng (Polymer Engineering, Zhenjiang University)	2005
Lillian Chang (Department Chemistry & Biochemistry)	2005-2006
Rachel Lin (Department Chemistry & Biochemistry)	2005-2006
Wanfu He (Mechanical Engineering, Zhenjiang University)	2006
Irene Ying Jian Li (Department of Chemistry & Biochemistry)	2006-2007
Nicole Q. Zhu (Materials Engineering, Zhenjiang University)	2007-2008
Canny Yen-Ning Chang (Department of Chemistry & Biochemistry)	2006-2009
Jeff Ha (Department of Chemistry & Biochemistry)	2009-2011
Binbin Luo (Bioengineering, Zhenjiang University)	2010
Xiaowen Xu (Biochemistry, Nainjing University)	2010-2011
Chelsea Hu (Chemical Engineering, UCLA)	2011
Yenny Wang (Chemistry and Biochemistry)	2011-2012
Xin (Sean) He (Chemical Engineering, UCLA)	2011
Seyedeh Tina Shamszadeh (Chemistry and Biochemistry)	2011-2013
Steven Zhang (Computer Science and Engineering, Carnegie Mellon University)	2012/2013
Tracy Ro (Accounting, UC Berkeley)	2012-2015
Yunshang Fan (Beijing Institute of Technology)	2012
Yiliang Zhou (Polymer Chemistry, Fudan University)	2012
Zheng Luo (Chemistry, Peking University)	2012
Katherine Liu (Biochemistry, UCLA)	2012-2014
Jamie Chen (Visiting Student, Kaohsiung Medical University)	2013
Jia-Chi (David) Wu (Visiting Student, Taipei Medical University)	2013
Anna Feng (Bioengineering, UC Berkeley)	2013-2015
Chuxuan Li (Chemistry, Nanjing University)	2013
Parham Peyda (Chemistry, UCLA)	2013-2016
Thuy Tien Vu Nguyen (Physiological Science, UCLA)	2014-2016
Trang Huynh Mai Nguyen (Biology, UCLA)	2014-2016
Caroline Hsieh (Biochemistry, UCLA)	2015-2017
Petar Antovski (Bioengineering, UCLA)	2016-2018
Keefer Chern (Bioengineering, Johns Hopkins University)	2017
Derek Lee (Chemistry and Biochemistry, UCLA)	2017

Xinghong Tang (Materials Science and Engineering, UCLA)		2017-2018
Anqi Zhou (Chemistry and Biochemistry, UCLA)		2017-
Jane Hua (Wellesley College)		2018
Zipeng Wu (Tsinghua University, China)		2018
Dianwen Xu (Beihang University, China)		2018
Jinglei Ye (Chemistry and Biochemistry, UCLA)		2018-2020
Rose Koochekpour (Chemistry and Biochemistry, UCLA)		2019-2021
Phuong Nguyen (Chemistry and Biochemistry, UCLA)		2020
Aaron Kwan (Neuroscience, UCLA)		2021-
Audrey Qian (MIMG, UCLA)		2022-
Jenna Yao (Human Bio/Society, UCLA)		2021-
Tiffany Zhang (Human Bio, UCLA)		2020-
Shaina Wang (Cognitive Science, UCLA)		2021-

Research Assistants

Hiroko Takahashi (B.S. UCLA)		2006-2008
Minori Ohashi (B.S. Cornell University)	UCLA MSTP	2007-2010
Lirong Bao		2012-2022
Millicent Lin (B.S. UCLA)		2012-2015
Matthew Smalley (B.S. Caltech)		2016-2020
Tim Chen (B.S. Emory University)		2017-2018
Michael Johanis (B.S. UCLA)		2020-2021
Josephine Widjaja (B.S. UC Berkeley)		2021-2022
Hubert Tang (B.S. UCLA)		2021-

High School Students

Carol Suh (Palos Verdes Peninsula High School)	Harvard University	2005-2007
Jane Suh (Palos Verdes Peninsula High School)	Harvard University	2007-2010
Brian Kung (Santa Monica High School)	UC Berkeley	2010
Jean Wang	Princeton	2011
Charles Lai	UC Berkeley	2011
Kevin Wei (San Marino High School)	Yale University	2011-2013
Daniel Suh (Palos Verdes Peninsula High School)		2011-2014
Jonathan Yang (Brentwood High School)	UC Berkeley	2012-2016
James Bernstein (The Buckley School)	Harvard University	2012-2014
Hannah Kang (Palos Verdes Peninsula High School)		2015-2016
Icy Liang (Santa Monica High School)	Brown University	2020-
Katelyn Lam (??)	UC Berkeley	2021-
Alex Wu (Santa Monica High School)		2021-
Alexander Meng (University High School-Irvine)		2021-
Wanfang Qi (Venice High School)		2021-
Sophie Zhu (Palisades Charter High School)		2022-
Colton Kim (Castaic High School)		2022-
Daniel Liu (Sage Hill School)		2022-
Katharina Wang (Central Jersey College Prep Charter School)		2022-

RESEARCH SUPPORTS

1. Oct 03-Sep 06 UCLA Start-up Fund
   Microfluidic Technology for Molecular Imaging, Biology and Chemistry (PI: Tseng)
2. Jul 04-Jun 05 Faculty Developmental Award Seed Grant
   Conducting Nanofibers as New Materials for Electronic Sensing in Biological Systems (PI: Tseng)
3. Jan 05-Dec 07 NIH-National Cancer Institute (U54)
   Conducting Polymer Nanowire Sensors for Detection of Prostate Cancer Marker (PSCA)
   Developmental Award, UCLA SPORE in Prostate Cancer (PI: DeKernion)
4. Jan 05-Dec 05 DOE
   Integrated Microfluidic Circuitry as an Enabling Technology for Molecular Imaging Probe Development (PI: Heath)
   UCLA Institute for Molecular Medicine (Director: Phelps)
5. Apr 05-Mar 07 Siemens Molecular Solution Inc.
   Producing PET Probes in Chemical Reaction Circuits (CRCs) (PI: Tseng)
6. May 05-Apr 06 DOD-Army Research Office
   Scanning Probe Microscope (SPM) for Research on Conducting Polymer Nanowires and Biointerfaces (PI: Tseng)
7. Jun 05-May 06 Accelerate Brain Cancer Cure/ABC^2
   Micro-Pathology-Lab Chips for Glioblastoma Research (PI: Mischel)
8. Jul 05-Jun 06 UC Cancer Research Coordinating Committee
   Conducting Polymer Nanowire Sensors for Detection of Cancer Marker – CEA (PI: Tseng)
9. Sep 05-Aug 06 NIH-National Cancer Institute
   Chemical Reaction Circuits (CRCs) for Radiolabeling of PET Imaging Probes
   UCLA Center for In Vivo Imaging in Cancer Biology (Director: Herschman)
10. Jan 06-Dec 10 NIH-National Cancer Institute (U54)
    Nanotechnology Driven Probes for Molecular Imaging (PI: Phelps)
    Nanotechnology Tools for Pathologic Analysis of Glioblastoma (Brain Cancer) and Other Cancers (PI: Mischel)
    Nanosystems Biology Cancer Center (Director: Heath)
11. Feb 06-Jan 08 UC Discovery Grant
    Integrated Microfluidics for Performing Quantitative In Vivo Imaging of Biological and Pharmacologic Processes in Mice with micro-PET (PI: Wu)
12. Jun 06-May 08 DOE
    Enabling Technology for PET Imaging Probe (PI: Heath)
    UCLA Institute for Molecular Medicine (Director: Phelps)
13. Jul 06-Jun 09 DOD-DTRA
    Hydrodynamic Focusing-Templated Electrochemical Fabrication of High Density Conducting Polymer Nanowire Sensor Arrays (PI: Tseng)
14. May 07-Apr 09 UCLA Institute of Stem Cell Biology and Medicine
    An Integrated Microfluidic Platform for Screening hESC Culture Conditions (PI: Tseng)
15. Sep 07-Aug 11 Transdisciplinary Award, UCLA Jonsson Comprehensive Cancer Center
    An Integrated Microfluidics Platform for the Systems Biology of Cancer (PI: Graeber)
16. Mar 08-Feb 10 Dana Neuroimmunology Award
    New Positron Emission Tomography Approaches to Visualize T Cell-Mediated Autoimmune

Demyelination (PI: Radu)

17. Mar 09-Feb 11 California Institute for Regenerative Medicine
    Microfluidic Platform for Screening Chemically Defined Conditions that Facilitate Clonal Expansion of Human Pluripotent Stem Cells (PI: Tseng)
18 Aug 09-Jul 11 NIH-National Cancer Institute (R21 EB008419)
    Integrated Microfluidic Devices for 18F Labeled PET Probes in Cancer Imaging (PI: Tseng)
19. Feb 10-Jan 11 Nanopacific Holding LLC.
    Supramolecular Nanoparticles (SNPs)-Based Transfection Agents that Can Be Applied for Cell Reprogramming (PI: Tseng)
20. Mar 10-Mar 12 Prostate Cancer Foundation
    Nanostructured Substrates for Enrichment of Circulating Tumor Cells from Prostate Cancer Patients (PI: Rettig)
21. Aug 10-Jul 12 NIH-National Cancer Institute (R21 CA151159)
    3D-Nanostrcutured Substrates for Detection of Circulating Tumor Cells (PI: Tseng)
22. Aug 11-Jul 14 NIH-National Cancer Institute (R33 CA157396)
    Advanced Development of an Integrated CTC Enrichment Technology (PI: Tseng)
23. Sep 11-Aug 13 NIH-National Institute of General Medical Sciences (R21 GM098982)
    Generation of hPSCs Using Reprogramming Proteins-Encapsulated Nanoparticles (PI: Tseng)
24. Jul 11-Jun 13 NIH-National Cancer Institute (U54)
    A New Platform Technology for Isolation of Viable Circulating Tumor Cells (CTCs) from Prostate Cancer Patients
    Developmental Award, UCLA SPORE in Prostate Cancer (PI: Reiter)
25. Sep 11-Aug 12 Transdisciplinary Award, UCLA Jonsson Comprehensive Cancer Center
    Overcoming Acquired Resistance to BRAF Targeting in Melanoma Using Phosphor Proteomics and Microfluidics (PI: Graeber)
26. Jul 12-Jun 14 NIH-National Cancer Institute (R21)
    Diagnosing Emergence of Kinase Inhibitor Resistance on a Microchip (PI: Graeber)
27. Jan 13-Dec 15 NIH-National Institute of Biomedical Imaging and Bioengineering (R21 EB016270)
    Supramolecular Nanoparticle-Based PET Probes for Pretargeted Tumor Imaging (PI: Tseng)
28. Mar 13-Feb 16 NIH-National Cancer Institute (PO1 CA168585)
    Overcoming BRAF Inhibitor Resistance in Melanoma (PD: Ribas)
    Project 2: Microfluidic Diagnostics for Monitoring of BRAF Inhibitor Resistance in Melanoma (PI: Tseng)
29. Apr 13-Mar 16 NIH-National Cancer Institute (R33 CA174562)
    Molecular and Functional Analysis of Single Circulating Melanoma Cells (PI: Tseng)
30. Sep 13-Aug 18 NIH-National Institute of Arthritis and Musculoskeletal and Skin Diseases (RO1)
    Reprogramming and Directed Differentiation of Skeletal Muscle Cells from hPSCs (PI: Pyle)
31. Sep 13-Aug 15 Transdisciplinary Award, UCLA Jonsson Comprehensive Cancer Center
    CTC-Derived Molecular Signatures for Treatment Guidance in Pancreas Cancer (PI: Tomlinson)
32. Jul 15-Jun 17 NIH- National Cancer Institute (R44CA180482-SBIR Phase II)
    CTC Purification System Based on Thermoresponsive NanoSubstrates (MPI: Liu/Yang/Tseng)
33. Jul 15-Jun 18 DoD- Synergistic Idea Award
    Determine the Dynamic Response to Androgen Blockade Therapy in Circulating Tumor Cells of CRPC Patients by Transcription-based Reporter Vectors (PI: Wu)
34. Jul 15-Jun 20 NIH-National Cancer Institute (PO1 CA168585)
    Prostate cancer bone metastasis: biology and targeting (PD: Chung, Sub-contract-PI: Tseng)

35. Sep 15-Aug 20 NIH- National Cancer Institute (U01 CA198900)
    Thermoresponsive NanoVelcro CTC Purification System for Prostate Cancer Profiling (MPI: Tseng/Posadas)
36. Jul 17-Jun 22 NIH-National Cancer Institute (R01 CA218356)
    A Blood Test to Identify Prostate Cancer Patients at Risk for Visceral Metastasis (MPI: Posadas/Tseng)
37. Apr 18-Mar 20 NIH-National Cancer Institute (R21 CA216807)
    Analysis of HCC CTC Phenotype for Liver Transplant Candidate Selection (PI: Agopian)
38. Jul 18-Jun 19 Sorrento Therapeutics
    co-Delivery of CRISPR-Cas9 and Guide RNA for Gene-Editing of Hematopoietic stem cells (HSCs) (PI: Tseng)
39. Dec 18-Nov 21 NIH-National Cancer Institute (R21 CA235340)
    Click Chemistry-Mediated Microfluidic Sorting for HCC CTCs (MPI: Zhu/Tseng/Agopian)
40. Aug 19-Jul 24 NIH-National Institute of Biomedical Imaging and Bioengineering (U01 EB026421)
    Non-Invasive Prenatal Diagnostics Based on Circulating Trophoblasts (MPI: Tseng/Pisarska)
41. Jul 19-Jun 22 DoD - Synergistic Idea Award (PC180192)
    A Nanotechnology Solution for Early Detection of Micrometastatic Prostate Cancer after Radical Prostatectomy (MPI: Posadas/Tseng)
42. Sep 19-Aug 20 Jonsson Cancer Center Foundation
    Isolation and Characterization of Extracellular Vesicles as a Biomarker in Hepatocellular Carcinoma (PI: Tseng)
43. Jan 20-Aug 22 Gift Fund from Pulsar Pharmaceuticals
    Supramolecular Nanoparticle Drug Delivery Systems (PI: Tseng)
44. Jan 20-Dec 25 NIH-National Cancer Institute (P01 CA233452)
    A Nanotechnology Solution for Early Detection of Micrometastatic Prostate Cancer after Radical Prostatectomy (MPI: Bhowmick/Lu)
45. Apr 20-Mar 25 NIH-National Cancer Institute (R01 CA246304)
    Integrated analysis of HCC CTCs for Liver Transplant Candidate Selection (MPI: Agopian/Tseng/You)
46. Apr 20-Mar 22 NIH-National Cancer Institute (R21 CA240887)
    Biomimetic NanoVilli Chips for Extracellular Vesicles in Hepatocellular Carcinoma (MPI: Zhu/Agopian /Tseng)
47. Jul 20-Jun 25 NIH-National Cancer Institute (R01 CA253651)
    Covalent Chemistry on Nanosubstrates Enables Molecular Analysis of Purified Extracellular Vesicles in Hepatocellular Carcinoma (MPI: Tseng/Agopian /You)
48. Mar 21-Feb 26 NIH-National Cancer Institute (R01 CA255727)
    Extracellular Vesicle-Based Digital Scoring Assay for Detecting Early-stage Hepatocellular Carcinoma (PI: Zhu)

PUBLICATIONS (Dr. Tseng's career metrics calculated by Google Scholar: Total citations: 17,413; h-index = 64; i10-index = 139 (# of papers cited 10 times or more).

Peer-Reviewed Papers

151. N. Sun, C. Zhang, J. Wang, X. Yue, H.Y. Kim, R.Y. Zhang, H. Liu, J. Widjaja, H. Tang, T.X. Zhang, J. Ye, A. Qian, C. Liu, A. Wu, K. Wang, M. Johanis, P. Yang, H. Liu, H.-R. Tseng, L. Liang, R. Pei, W. Chai-Ho, Y. Zhu, M. Meng (2022) Hierarchical Integration of DNA Nanostructures and NanoGold onto a Microchip Facilitates Covalent Chemistry-Mediated Purification of Circulating Tumor Cells in Head and Neck Squamous Cell Carcinoma, submitted.

150. Q. Ban, J. Lee, Z. Shi, D. Lu, L. Qiao, P. Yang, X. Li, H. Cheng, M. Zhang, J. Hou, J. H. Yao, J. Wang, H.-R. Tseng, Y. Zhu, L.-C. Chen, W. Hui, D. Liu (2022) Intraosseous Injection of SMNP Vectors Enables CRISPR/Cas9-mediated Knock-in of HBB Gene into Hematopoietic Stem Cells, *Nano Today*, under revision.
149. J.J. Wang, N. Sun, Y.-T. Lee, M. Kim, T. Vagner, K. Rohena-Rivera, Z. Wang, Z. Chen, R.Y. Zhang, C. Zhang, H. Tang, J. Widjaja, T.X. Zhang, D. Qi, P.-C. Teng, Y.J. Jan, K.-C. Hou, C. Hamann, H.M. Sandler, T.J. Daskivich, D.J. Luthringer, N.A. Bhowmick, R. Pei, S. You, D. Di Vizio, H.-R. Tseng, J.-F. Chen, Y. Zhu, E.M. Posadas (2022) Prostate Cancer Extracellular Vesicle Digital Scoring Assay – a Rapid Noninvasive Approach for Quantification of Disease-Relevant mRNAs. *Nano Today, under revision.*
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1. H.-R. Tseng, J. Wang, M. Alam, Y. Guo (2006) Electrochemically Fabricated Conducting Polymer Nanowire Sensors. PCT Int. Appl. WO 2006/042276.

INVITED LECTURES and SEMINARS

07/2002 Nano-Triangle (UCLA/UCSB/Caltech) Meeting, Los Angeles, CA
10/2002 CeNS/CNSI Workshop, Munich, Germany

08/2003 Institute of Chemistry, Academia Sinica, Taipei, Taiwan
08/2003 Department of Chemistry, National Taiwan University, Taipei, Taiwan
10/2003 ACS Southern Regional Meeting, Long Beach, CA
12/2003 Institute of Chemistry, Chinese Academy of Science, Beijing, China

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06/2004 Norma Stoddart Memorial Symposium, Los Angeles, CA

01/2005 Workshop of the Center for Integrated Nanotechnology, Albuquerque, NM
04/2005 Fluidigm Corp., San Francisco, CA
04/2005 2nd Annual Conference Foundations of Nanoscience (FNANO05), Snowbird, UT
05/2005 UCLA SPORE Annual Meeting in 2005, Los Angeles, CA
11/2005 DOE Workshop on Frontiers in Imaging Science: Imaging Low Abundance Targets Cambridge, MA
12/2005 Institute of Chemistry, Chinese Academy of Science, Beijing, China
12/2005 Department of Chemistry & Center for Nanotechnology and Nanomaterials Joint Seminar Hong Kong University of Science and Technology (HKUST), Hong Kong

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01/2006 Frontier researches on Chemical Science–A Symposium in Honor of Professor Tien-Yau Luh at his 60th Birthday, Taipei, Taiwan
04/2006 Cancer Affinity Group, the Scripps Research Institute, La Jolla, CA
04/2006 The 3rd Annual Conference Foundations of Nanoscience (FNANO06), Snowbird, UT
10/2006 Department of Materials Science and Engineering, University of Florida, Gainesville, FL
11/2006 Tateshina Conference on Organic Chemistry, Tateshina, Japan
12/2006 Institute of Bioengineering and Nanotechnology, Singapore
12/2006 Department of Chemistry, Nanyang Technology University, Singapore
12/2006 ISCIC-6 & ISCOC-9, Singapore
12/2006 Department of Chemistry, National Taiwan University, Taipei, Taiwan

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01/2007 Research Center for Applied Science, Academia Sinica, Taipei, Taiwan
04/2007 Shanghai Institute of Organic Chemistry, Chinese Academy of Science, Shanghai, China
04/2007 Liquidia Technologies, Inc., Morrisville, NC
06/2007 ECI Conference on "Nanoscience & Nanotechnology for Biological/Biomedical/Chemical Sensing", Hong Kong
06/2007 Department of Chemistry, Hong Kong Chinese University, Hong Kong
06/2007 DuPont, Wilmington, DE
08/2007 Division of Organic Chemistry, 2007 ACS National Meeting, Boston
09/2007 2007 Materials Today Asia Conference, Beijing, China
09/2007 National Institute of NanoScience and Technology, Beijing, China
10/2007 2007 Nuclear Science Symposium and Medical Imaging Conference, Honolulu, Hawaii (Plenary Lecture)

01/2008 Department of Chemistry, University of California, Irvine, CA
04/2008 Department of Biomedical Engineering, Cornell University, NY
04/2008 Advion BioSciences, Ithaca, NY
04/2008 Department of Physics, Wuhan University, Wuhan, China
04/2008 Department of Chemistry, Jilin University, Changchun, China
09/2008 Nara Institute of Science and Technology, Osaka, Japan
09/2008 International Symposium on Integrated Synthesis 2008 (ISIS-5), Kobe, Japan
09/2008 Osaka University, Osaka, Japan
09/2008 Osaka Prefecture University, Osaka, Japan
09/2008 Kyoto University, Kyoto University, Japan
09/2008 International Symposium on Micro Chemical Process and Synthesis (MiPS2008), Beijing, China
10/2008 Cell Signaling Technology, Boston, MA
10/2008 National Institute of NanoScience and Technology, Beijing, China
10/2008 BIT 1st Annual Congress and Expo of Molecular Diagnostics (CEMD-2008)
12/2008 Zhejiang-California International Institute of Nanotechnology, Zhejiang, China
12/2008 2nd Affiliated Hospital of Zhejiang University, Zhejiang, China

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01/2009 Department of Bioengineering, University of California, Los Angeles, CA
02/2009 ICB/Stem Cell Center Seminar Series, University of California, Santa Barbara, CA
03/2009 Department of Bioengineering, Peking University, Beijing, China
03/2009 American Physical Society (APS) Meeting on Physics of Circulating Tumor Cells and Metastasis, Pittsburgh, PA
04/2009 Multidisciplinary Symposia on Controversial and Innovative Neurosurgical Challenges, University of California, Los Angeles, CA
06/2009 Department of Macromolecular Science and Laboratory of Advanced Materials
Fudan University, Shanghai, China
06/2009 Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Science
Suzhou, China
06/2009 5th International Conference on Materials for Advanced Technologies (ICMAT 2009) and Int'l Union of Materials Research Societies – International Conference in Asia 2009 (IUMRS – ICA 2009), Singapore
07/2009 Department of Chemistry, National Taiwan University, Taipei, Taiwan
10/2009 Shanghai Children's Hospital, Shanghai, China
11/2009 Department of Biomedical Engineering, Tsinghua University
11/2009 Department of Chemistry, Tsinghua University

01/2010 RIKEN Wako campus – Mini symposium of Organic Chemistry, Materials, and Bioengineering, Tokyo, Japan
01/2010 2010 RIKEN International Conference on Soft materials & Interfaces, Harima, Japan
01/2010 Department of Chemistry, University of Tokyo, Japan
02/2010 1st Global Congress on NanoEngineering for Medicine and Biology (NEMB2010), Houston, TX
03/2010 Department of Pharmacology, City of Hope, CA
03/2010 Physical Oncology Seminar Series, University of Southern California, Los Angeles, CA
03/2010 Uro-Oncology Research Program, Cedars-Sinai Medical Center, Los Angeles, CA
04/2010 King Abdullah University of Science and Technology, Kingdom of Saudi Arabia

05/2010 Chemistry for the Next Generation by the Next Generation, Center for the Chemistry of Integrated Systems (CCIS) & Department of Chemistry, Northwestern University, IL
06/2010 Department of Biomedical Engineering, Duke University, NC
08/2010 National Taiwan University, College of Medicine, Taipei, Taiwan
08/2010 5th SBE International Conference on Bioengineering and Nanotechnology (ICBN 2010), Singapore
09/2010 Biomedical Technology and Device Research Labs, Industrial Technology Research Institute, Hsinchu, Taiwan
10/2010 4th Annual Symposium on Nanobiotechnology. "New Directions in Nanotheranostics: Imaging, Biosensors, Materials, and DNA Technologies" LMU München, Germany
10/2010 Department of Chemistry and Chemical Biology, Rutgers University, NY
10/2010 GE Global Research Center, Niskayuna, NY
11/2010 Beijing Tumor Hospital, Beijing, China
11/2010 China Tumor Hospital, Beijing, China
11/2010 College of Medicine, Wuhan University, Wuhan, China

02/2011 National Center for Nanotechnology and Nanoscience, Chinese Academy of Science, Beijing, China
04/2011 2011 International Advanced Drug Delivery Symposium, Hsinchu, Taiwan
05/2011 2011 International Symposium on Photonics and Optoelectronics (SOPO 2011), Wuhan, China (Plenary Lecture)
10/2011 GI Cancer Research Center, Fourth Military Medical University, Xian, China
10/2011 Laboratory of Oncology, Affiliated Hospital of Academy of Military Medical Sciences, Beijing, China
11/2011 12th Annual Principal Investigators (PI) Meeting, Innovative Molecular Analysis Technologies (IMAT) Program, National Cancer Institute, Washington DC
11/2011 Seoul Nanohealth 2011 Symposium, Seoul, Korea
11/2011 Sun Yet San Hospital, Guangzhou, China
12/2011 11th iCeMS International Symposium "Chemical Control of Cells", Kyoto, Japan
12/2011 Kyushu University, Kyushu, Japan
12/2011 Hokkaido University, Hokkaido, Japan
12/2011 RIKEN Wako Campus, Tokyo, Japan

02/2012 2nd Annual Circulating Tumor Cells for Cancer Detection, Diagnosis, Prognosis and Treatment Meeting, San Francisco
05/2012 Recent Advances in the Development of BRAF and Other Ras/MAPK Inhibitors, JCCC Signal Transduction & Therapeutics Program
06/2012 Prostate Cancer Foundation, Santa Monica, CA
06/2012 Department of Chemistry, Wuhan University, Wuhan China
07/2012 Department of Surgical Oncology, Wuhan University, Wuhan China
07/2012 Microfluidics 2012, European Molecular Biology Laboratory (EMBL), Heidelberg, Germany
09/2012 Cambridge Healthtech Institute's 3rd Annual Circulating Tumor Cells, Accelerating Development & Advancing Personalized Therapy (ADAPT) Congress, Washington DC
09/2012 Select Biosciences' 3rd Annual Single Cell Analysis Summit 2012, San Diego, CA
10/2012 JCCC Research Seminar, Cancer Molecular Imaging and Cancer Nanotechnology Program Areas
12/2012 7th International Conference on Genomics & Bio-IT APAC 2012, Hong Kong
12/2012 Fuda Cancer Hospital, Guangzhou, China

12/2012 GI Cancer Research Center, Fourth Military Medical University, Xian, China
12/2012 Biodynamic Optical Imaging Center (BIOPIC), College of Engineering, Peking University, China
12/2012 1st KAUST- Symposium on Functional Molecules and Materials: Focus Asia, Saudi Arabia

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01/2013 Institute of Chemistry, Chinese Academy of Science, Beijing, China
01/2013 Select Biosciences, Cell Track: Circulating Tumor Cells, San Diego, CA
02/2013 Analytical Chemistry Seminar, University of Washington, Seattle, WA
02/2013 3rd Annual Circulating Tumor Cells for Cancer Detection, Diagnosis, Prognosis and Treatment Meeting, San Francisco, CA
03/2013 Rare-Cell Isolation Section, PITTCON Conference, Philadelphia, PA
04/2013 6th Chinese Society of Clinical Oncology (CSCO) Brest Cancer Summit & 2013 Breast Cancer Beijing Forum, Beijing, China
04/2013 USC-UCLA-Caltech, Nanomedicine Group, University of Southern California, Los Angeles, CA
05/2013 Nanotechnology Platform-based Biomarker Assays, American Association of Pharmaceutical Sciences (AAPS), National Biotechnology Conference (NBC), San Diego, CA
06/2013 Department of Chemistry, National Taiwan University, Taipei, Taiwan
06/2013 Bioengineer Research Program, National Tsinghua University, Hsinchu, Taiwan
06/2013 Drug Delivery System, ITRI, Hsinchu, Taiwan
06/2013 Kaohsiung Medical University, Kaohsiung, Taiwan
07/2013 Abnova-Sponsored Prenatal Diagnosis Workshop, Taipei, Taiwan
09/2013 Frontiers of Single-Cell Analysis, Stanford University, CA
09/2013 2013 Breast Cancer Society Meeting, Taipei, Taiwan
09/2013 Select Biosciences' 4th Annual Single Cell Analysis Summit 2013, San Diego, CA
10/2013 UCLA-USC-Caltech Symposium "Nanotechnology Innovations in Cancer, Regenerative Medicine and Infectious Diseases", UCLA
11/2013 14th Annual Principal Investigators (PI) Meeting, Innovative Molecular Analysis Technologies (IMAT) Program, National Cancer Institute, Washington DC
11/2013 BerryGenomics, Beijing, China
12/2013 2013 Taiwan Society of Perinatology Meeting, Kaohsiung, Taiwan

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04/2014 7th Chinese Society of Clinical Oncology (CSCO) Brest Cancer Summit & 2014 Breast Cancer Beijing Forum, Beijing, China
06/2014 Biomedical Innovation: Current Status and Challenges, A Satellite Conference of 2014 BIO International Convention, Los Angeles
08/2014 Supramolecular Assembly Symposium, Chinese Chemical Society Annual Meeting, Beijing
08/2014 Supramolecular Nanoparticles Symposium, ACS Annual Meeting, San Francisco
09/2014 International Symposium on Materials for Enabling Nanodevices, National Cheng Kung University, Tainan, Taiwan
09/2014 Microgenomics Thought Leader Summit, Life Technologies, Carlsbad, CA
09/2014 SelectBio Exosome & Single Cell Analysis Summit, San Diego (Keynote Lecture)
09/2014 ASCO-CSCO Joint Breast Cancer Symposium, CSCO-2014 Annual Meeting, Xiamen, China
09/2014 Circulating Tumor Cell Symposium, CSCO-2014 Annual Meeting, Xiamen, China
10/2014 Cancer Think Tank, Oregon Health & Science University Knight Cancer Institute, Portland, OR
11/2014 Circulate, Circulating Cancer Biomarkers, Boston, MA

01/2015 Agilent Technologies, Santa Clara, CA
04/2015 8th Chinese Society of Clinical Oncology (CSCO) Brest Cancer Summit & 2014 Breast Cancer Beijing Forum, Beijing, China
06/2015 GTCbio Cancer Markers & Liquid Biopsies Conference, San Diego, CA
07/2015 Invited Seminar, UCLA RAD/PATH Operations Oversight Committee meeting
09/2015 Bioscience Division, Stanford Research Institute, Menlo Park, CA
09/2015 SelectBio Exosome & Single Cell Analysis Summit, San Diego (Keynote Lecture)
10/2015 Illumina Research Center, San Francisco, CA
10/2015 Bioengineering Program, King Abdullah University of Science and Technology, Kingdom of Saudi Arabia
11/2015 NCI IMAT PI Meeting, a Panel Discussion on Liquid Biopsies: the CTC Perspective, NIH Campus in Bethesda, MD
11/2015 SELECTBIO 2nd Annual Biofluid Biopsies and High-Value Diagnostics Conference (Keynote Lecture), San Diego, CA
11/2015 3rd Annual Advances in Prenatal Molecular Diagnostics – Trend & Implications in a Rapid Changing Landscape, Boston, MA
11/2015 Phase-3 Kick-Off Meeting, NCI Alliance for Nanotechnology in Cancer, NIH Campus in Bethesda, MD
12/2015 Invited Seminar, Department of Applied Physics and Chemistry, University of Taipei, Taipei, Taiwan
12/2015 2015 Taiwan Society of Perinatology Meeting, Taipei, Taiwan

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02/2016 Invited Seminar, UCLA Obstetrics and Gynecology Grand Rounds Series
03/2016 2016 23rd International Molecular Medicine Tri-Conference, 6th Annual Circulating Tumor Cells Conference, San Francisco
04/2016 Exosomes and Liquid Biopsies Asia 2016, Taipei, Taiwan (Keynote Lecture)
04/2016 Annual Meeting, Guangdong Society of Pathology, Guangzhou, China
05/2016 Invited Seminar, Department of Physiology, National Cheng Kung University, Tainan, Taiwan
07/2016 Precision Nanomedicine Symposium 2016, National Center for Nanoscience and Technology, Beijing, China
07/2016 Invited Seminar, Institute of Chemistry, Academia Sinica, Taipei, Taiwan
09/2016 Invited Seminar, Department of Bioengineering, University of California San Diego
09/2016 SelectBio 3rd Liquid Biopsies and Minimally Invasive Diagnostics 2016, San Diego (Keynote Lecture)
11/2016 4th Annual Advances in Prenatal Molecular Diagnostics – Trend & Implications in a Rapid Changing Landscape, Boston, MA
12/2016 Next Generation Sequencing Asia 2016: Clinical Applications, Taipei, Taiwan (Keynote Lecture)
12/2016 Invited Talk, 19th Congress of the Federation of Asia and Oceania Perinatal Societies, Taipei, Taiwan

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04/2017 Single-Cell Analysis Workshop, CPRIT Bioanalytics and Single-Cell Core
University of Texas Health Science Center at San Antonio, San Antonio, TX
04/2017 1st SoCal Taiwanese Biotechnology Symposium, La Jolla, CA
05/2017 Annual Meeting, Guangdong Society of Pathology, Guangzhou, China
06/2017 Bio-Rad ddPCR Symposium, La Jolla, CA
06/2017 Exosomes and Liquid Biopsies Asia 2017, Taipei, Taiwan (Keynote Lecture)
06/2017 NIH, NCI Center for Strategic Scientific Initiatives (CSSI) Science Day meeting

08/2017 Circulating Tumor Cell Symposium, Next Generation Dx Summit 2017, Washington DC
08/2017 Non-Invasive Prenatal Testing Symposium, Next Generation Dx Summit 2017, Washington DC
10/2017 PI Meeting, NCI Alliance for Nanotechnology in Cancer, NIH Campus in Bethesda, MD
10/2017 SELECTBIO 4th Annual Biofluid Biopsies and High-Value Diagnostics Conference (Keynote Lecture), San Diego, CA
10/2017 Invited Talk, 1st Annual Meeting for Taiwanese American Association of Pharmaceutical Sciences, Princeton University, NJ
10/2017 Invited Talk, 23rd Congress of Chinese Society of Pathology and 7th Annual Meeting of Chinese Pathologists, Suzhou, China
10/2017 Invited Seminar, Department of Polymer Sciences, Fudan University, Shanghai, China
10/2017 Invited Seminar, Department of Pathology, Fudan University Tumor Hospital, Shanghai
12/2017 Invited Seminar, National Taiwan University, Taipei, Taiwan
12/2017 Invited Seminar, National Chao Tung University, Hsin-Chu, Taiwan
12/2017 Invited Seminar, Industrial Technology Research Institute, Hsin-Chu, Taiwan

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03/2018 American Physical Society (APS) Meeting on Physical Sciences vs. Oncology, Los Angeles, CA
05/2018 Invited Seminar, Natera, San Francisco
06/2018 Invited Seminar, UCLA Materials Sciences and Engineering Seminar Series
08/2018 Annual Meeting, Guangdong Society of Pathology, Guangzhou, China
09/2018 Invited Seminar, Zhuhai Institute of Advanced Technology, Chinese Academy of Sciences, China
10/2018 6th Annual Advances in Prenatal Molecular Diagnostics – Trend & Implications in a Rapid Changing Landscape, Boston, MA
11/2018 Keynote Lecture, Asia Diagnostics Summit 2018, Taipei, Taiwan
12/2018 First Annual Meeting of UCLA-CSMC-Taiwan Translation Oncology Program for Young Physician Scientists, Taipei, Taiwan

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01/2019 Keynote Speech, 2019 Taiwan University Presidents' Meeting, Taichung, Taiwan
01/2019 Invited Seminar, Center for Research and Development of Engineering Technology, National Chung Hsing University, Taichung, Taiwan
03/2019 Circulating Biomarkers World Congress 2019, San Diego, CA
04/2019 Keynote Speech in the Chinese-American Engineers and Scientists Association of Southern California (CESASC) 57th Annual Convention, Los Angeles, CA
05/2019 Invited Talk, 2019, Nano-Gene Therapy and Regenerative Medicine Summit, Taipei, Taiwan
06/2019 2019-SoCal Biotechnology Network Forum, Thousand Oaks, CA
07/2019 Invited Talk, the Suzhou Institute of Nano-tech and Nano-bionics (SINANO), Suzhou, China
08/2019 Invited Talk, Third Precision Medicine Summit, Shenzhen, China
10/2019 Invited Talk, PI Meeting, NCI Alliance for Nanotechnology in Cancer, NIH Campus in Rockville, MD
10/2019 Microfluidics for Circulating Biomarkers Summit 2019, Coronado Island, CA
12/2019 Plenary Speech, 9th Taiwan-Japan-Korea Symposium in Maternal-Fetal Medicine, Taipei, Taiwan

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12/2020 Invited Zoom Talk, Annual Meeting, Chinese University of Alumni Association Alliance of Southern California (CUAAASC), CA
12/2020 Invited Zoom Talk, 4th Precision Medicine Summit, Shenzhen, China

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04/2021	Invited Seminar (via Zoom), Department of Chemistry, University of California, Riverside.
08/2021	Invited Talk Seminar (via Zoom), Cambridge HealthTech Institute's Sixth Annual Meeting, Technologies for Liquid Biopsy, Washington, DC
08/2021	Invited Seminar (via Zoom), Terisaki Institute, Los Angeles
10/2021	Invited Talk (via Zoom), PI Meeting, NCI Alliance for Nanotechnology in Cancer, NIH Campus in Rockville, MD
11/2021	Invited Talk (via Zoom), 2nd Asia-Pacific International Conference on Prenatal Diagnosis and Therapy, 9th Taiwan Forum on Recent Trends in Maternal Fetal Medicine, Taipei, Taiwan

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03/2022	Invited Talk, Association of Biomolecular Resource Facilities (ABRF) 2022 Annual Meeting, Palm Springs, CA
04/2022	Invited Talk, AACR Annual Meeting 2022, New Orleans, LA