

CURRICULUM VITAE

IL MINN, Ph.D.

DEMOGRAPHIC AND PERSONAL INFORMATION

Current Appointments

2017-present Assistant Professor, Johns Hopkins University, Department of Radiology and Radiological Sciences
Associate member of Institute for NanoBioTechnology (INBT), Johns Hopkins University

Personal Data

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Office: 410-502-4024
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Education and Training

Undergraduate

1992-1996 Bachelor of Science, Biochemistry, Hanyang University/South Korea

Master

1996-1998 Master of Science, Biological Sciences, Korea Advanced Institute of Science and Technology/South Korea

Doctoral

2002-2008 Doctor of Philosophy, Biochemistry, microbiology, and molecular biology, The Pennsylvania State University/University Park

Postdoctoral fellowship *Indicate primary mentors for scholarly activities where applicable*

2008-2011 Johns Hopkins University, School of Medicine, Supervisor: the late Professor Saul J. Sharkis

2011-2012 Johns Hopkins University, School of Medicine, Supervisor: Professor Martin G. Pomper

Professional Experience

Date Position, Institution/City

1998-2001 Military Officer (Lieutenant), Republic of Korea Air Force/ South Korea

2012-2014 Research Associate, Johns Hopkins University, School of Medicine/ Baltimore

2014-2017 Instructor, Johns Hopkins University, Department of Radiology and Radiological Sciences

PUBLICATIONS:

Original Research

1. Lee JH, **Minn I**, Park CB, Kim SC. Acidic peptide-mediated expression of the antimicrobial peptide buforin II as tandem repeats in Escherichia coli. *Protein Expr Purif.* 1998 Feb;12(1):53-60.
2. **Minn I**, Kim HC, and Kim SC. Antimicrobial Peptides Derived from Pepsinogens in the Stomach of the Bullfrog, *Rana Catesbeiana*, *Biochimica et Biophysica Acta.* 1998 Jul;1407(1):31-39.
3. Kim HS, Yoon H, **Minn I**, Park CB, Lee WT, Zasloff M, Kim SC. Pepsin-mediated processing of the cytoplasmic histone H2A to strong antimicrobial peptide buforin I. *J Immunol.* 2000 Sep 15;165(6):3268-74.
4. Coelho DJ, Sims DJ, Ruegg PJ, **Minn I**, Muench AR, Mitchell PJ. Cell type-specific and sexually dimorphic expression of transcription factor AP-2 in the adult mouse brain. *Neuroscience.* 2005;134(3):907-19.
5. **Minn I***. Roles M, Hanna-Rose W, and Malone CJ. SUN-1 and ZYG-12 are the functional SUN/KASH pair mediating the attachment between the centrosome and the nucleus in *C.elegans* embryo. *Mol. Biol. Cell.* 2009 Nov;20(21):4586-95; *corresponding author.
6. Roh JL, Kang SK, **Minn I**, Califano JA, Sidransky D, Koch WM. p53- Reactivating small molecules induce apoptosis and enhance chemotherapeutic cytotoxicity in head and neck squamous cell carcinoma. *Oral Oncol.* 2011 Jan;47(1):8-15.
7. Tsai HC, Li H, Van Neste L, Cai Y, Robert C, Rassool FV, Shin JJ, Harbom KM, Beaty R, Pappou E, Harris J, Yen RW, Ahuja N, Brock MV, Stearns V, Feller-Kopman D, Yarmus LB, Lin YC, Welm AL, Issa JP, **Minn I**, Matsui W, Jang YY, Sharkis SJ, Baylin SB, Zahnow CA. Transient low doses of DNA-demethylating agents exert durable antitumor effects on hematological and epithelial tumor cells. *Cancer Cell.* 2012 Mar 20;21(3):430-46.

8. Shallal HM, **Minn I**, Banerjee SR, Lisok A, Mease RC, Pomper MG. Heterobivalent agents targeting PSMA and Integrin- $\alpha\beta 3$. *Bioconjug Chem*. 2014 Feb;25(2):393-405.
9. **Minn I**, Wang H, Mease RC, Byun Y, Yang X, Wang J, Leach SD, Pomper MG. A red-shifted fluorescent substrate for aldehyde dehydrogenase. *Nat Commun*. 2014 Apr 23;5:3662.
10. Yang X, Yadav N, Song X, Banerjee S, Edelman H, **Minn I**, van Zijl PM, Pomper MG, McMahon MT. Tuning Phenols with Intra-Molecular Bond Shifted HYdrogens (IM-SHY) as diaCEST MRI Contrast Agents. *Chemistry*. 2014 Nov;20(48):15824-32.
11. Bhatnagar A, Wang Y, Mease RC, Gabrielson M, Sysa P, **Minn I**, Green G, Simmons B, Gabrielson K, Sarkar S, Fisher PB, Pomper MG. Astrocyte elevated gene-1 promoter-mediated imaging of prostate cancer. *Cancer Res*. 2014 Oct 15;74(20):5772-81.
12. **Minn I**, Bar-Shir A, Yarlagadda K, Bulte JM, Fisher PB, Gilad AA, Pomper MG. Tumor-specific expression and detection of a CEST reporter gene. *Magn Reson Med*. Aug;74(2):544-9.
13. Kiess A, **Minn I**, Chen Y, Hobbs RF, Sgouros G, Mease RC, Pullambhatla M, Shen C, Foss C, Pomper M. Auger Radiopharmaceutical Therapy Targeting Prostate-Specific Membrane Antigen. *J Nucl Med*. 2015 Sep;56(9):1401-7.
14. Yang X*, **Minn I***, Rowe SP, Banerjee SR, Gorin RA, Brummet A, Lee HS, Koo SM, Sysa-Shah P, Mease RC, Nimmagadda S, Allaf ME, Pomper MG. Imaging of carbonic anhydrase IX with an ^{111}In -labeled dual-motif inhibitor, *Oncotarget*. 2015 Oct 20;6(32):33733-42; *equal contribution.
15. Coughlin JM, Wang Y, Ambinder EB, Ward RE, **Minn I**, Vranesic M, Kim PK, Ford CN, Higgs C, Hayes LN, Schretlen DJ, Dannals RF, Kassiou M, Sawa A, Pomper MG. In vivo markers of inflammatory response in recent onset schizophrenia: A combined study using [^{11}C]DPA-713 PET and analysis of CSF and plasma. *Transl Psychiatry*. 2016 Apr 12;6:e777; Performing genotyping and plasma free fraction measurement.
16. Williford JM, Archang MM, **Minn I**, Ren Y, Wo M, Vandermark J, Fisher PB, Pomper MG, Mao HQ. Critical Length of PEG Grafts on IPEI/DNA Nanoparticles for Efficient in Vivo Delivery. *ACS Biomater Sci Eng*. 2016 Apr;2(4):567-578.
17. Subedi M*, **Minn I***, Chen J*, Kim Y, Ok K, Jung YW, Pomper MG, Byun Y. Design, synthesis and biological evaluation of PSMA/hepsin-targeted heterobivalent ligands. *Eur J Med Chem*. 2016 Apr 14;118:208-218; *equal contribution.
18. Kiess AP*, **Minn I***, Vaidyanathan G, Hobbs RF, Josefsson A, Shen C, Brummet M, Chen Y, Choi J, Koumariou E, Baidoo K, Brechbiel MW, Mease RC, Sgouros G, Zalutsky MR, Pomper MG. (2*S*)-2-(3-(1-Carboxy-5-(4-[^{211}At]astatobenzamido)pentyl)ureido)-pentanedioic acid for PSMA-Targeted α -Particle Radiopharmaceutical Therapy. *J Nucl Med*. 2016 May 26. [Epub ahead of print]; *equal contribution.
19. Gallagher E, **Minn I**, Chambers JE, Searson PC. *In vitro* characterization of pralidoxime transport and acetylcholinesterase reactivation across MDCK cells and stem cell-derived human brain microvascular endothelial cells (BC1-hBMECs). *Fluids Barriers CNS*. 2016 Jul;13(1):10.
20. Horti AG, Wang Y, **Minn I**, Lan X, Wang J, Koehler R, Alkayed N, Dannals RF, Pomper MG. ^{18}F -FNDP for PET Imaging of Soluble Epoxide Hydrolase (sEH). *J Nucl Med*. 2016 Nov;57(11):1817-1822.
21. **Minn I**, Koo SM, Lee HS, Brummet M, Rowe SP, Gorin MA, Sysa-Shah P, Lewis WD, Ahn HH, Wang Y, Banerjee SR, Mease RC, Nimmagadda S, Allaf ME, Pomper MG, Yang X. [^{64}Cu]XYIMSR-06: A dual-motif CAIX ligand for PET imaging of clear cell renal cell carcinoma. *Oncotarget*. 2016 Aug 30;7(35):56471-56479. doi: 10.18632/oncotarget.10602.
22. Qing-Li H*, **Minn I***, Wang Q, Xu P, Yu B, Pomper MG, Liu JO. Targeted delivery and sustained antitumor activity of triptolide through glucose conjugation. *Angewandte Chemie*. 2016 Sep 19;55(39):12035-9. doi: 10.1002/anie.201606121. *equal contribution.
23. Coughlin JM, Wang Y, **Minn I**, Bienko N, Ambinder EB, Xu X, Peters ME, Dougherty JW, Vranesic M, Koo SM, Ahn H, Lee M, Cottrell C, Sari HI, Sawa A, Munro CA, Nowinski CJ, Dannals RF, Lyketsos CG, Kassiou M, Guilarte TR, Smith F, Caffo B, Nori S, and Pomper MG. Imaging of Glial Cell Activation and White Matter Integrity in Brains of Active and Recently Retired National Football League Players. *JAMA Neurol*. 2017 Jan 1;74(1):67-74. doi: 10.1001/jamaneurol.2016.3764. PMID: 27893897
24. Chen Y, Chatterjee S, Lisok A, **Minn I**, Pullambhatla M, Wharram B, Wang Y, Jin J, Bhujwala ZM, Nimmagadda S, Mease RC, Pomper MG. A PSMA-targeted theranostic agent for photodynamic therapy. *J Photochem Photobiol B*. 2017 Feb;167:111-116. doi: 10.1016/j.jphotobiol.
25. Coughlin JM, Du Y, Rosenthal HB, Slania S, Min Koo S, Park A, Solomon G, Vranesic M, Antonsdottir I, Speck CL, Rootes-Murdy K, Lerner A, Rowe SP2, Wang Y, Lesniak WG, **Minn I**, Bakker A, Smith GS, Dannals RF, Kuwabara H, Horti A, Wong DF, Pomper MG. The distribution of the $\alpha 7$ nicotinic acetylcholine receptor in healthy aging: An in vivo positron emission tomography study with [^{18}F]ASEM. *Neuroimage*. 2017 Oct 6. pii: S1053-8119(17)30823-6. doi: 10.1016/j.neuroimage.2017.10.009. [Epub ahead of print]
26. HH Chung, JC Lee, **I Minn**. Follicle-stimulating hormone receptor in gynecological cancers. *Molecular & Cellular Toxicology* 14 (1), 1-7

27. Coughlin JM, Slania S, Du Y, Rosenthal HB, Lesniak WG, **Minn I**, Smith GS, Dannals RF, Kuwabara H, Wong DF, Wang Y, Horti AG, Pomper MG. ¹⁸F-XTRA PET for enhanced imaging of the extrathalamic $\alpha 4\beta 2$ nicotinic acetylcholine receptor. *J Nucl Med.* 2018 Mar 1. pii: jnumed.117.205492. doi: 10.2967/jnumed.117.205492. [Epub ahead of print] PubMed PMID: 29496987.
28. Banerjee SR, Song X, Yang X, **Minn I**, Lisok A, Chen Y, Bui A, Chatterjee S, Chen J, van Zijl PCM, McMahon MT, Pomper MG. Salicylic Acid-Based Polymeric Contrast Agents for Molecular Magnetic Resonance Imaging of Prostate Cancer. *Chemistry.* 2018 Mar 5. doi: 10.1002/chem.201800882. [Epub ahead of print] PubMed PMID: 29508450.
29. Vaidyanathan G, Kang CM, McDougald D, **Minn I**, Brummet M, Pomper MG, Zalutsky MR. Brush border enzyme-cleavable linkers: Evaluation for reducing renal uptake of radiolabeled prostate-specific membrane antigen inhibitors. *Nucl Med Biol.* 2018 May 5;62-63:18-30. doi: 10.1016/j.nucmedbio.2018.05.002. [Epub ahead of print], PMID: 29803076.
30. Foss CA, Plyku D, Ordonez AA, Sanchez-Bautista J, Rosenthal HB, **Minn IL**, Lodge MA, Pomper MG, Sgouros G, Jain SK. Biodistribution and Radiation Dosimetry of ¹²⁴I-iodo-DPA-713, a PET Radiotracer for Macrophage-Associated Inflammation. *J Nucl Med.* 2018 Apr 26. pii: jnumed.117.207431. doi: 10.2967/jnumed.117.207431. [Epub ahead of print], PMID: 29700124.
31. Zhang HK, Chen Y, Kang J, Lisok A, **Minn I**, Pomper MG, Boctor EM. Prostate Specific Membrane Antigen (PSMA)-Targeted Photoacoustic Imaging of Prostate Cancer In Vivo. *J Biophotonics.* 2018 Apr 13:e201800021. doi: 10.1002/jbio.201800021. [Epub ahead of print], PMID: 29653029.

Book Chapters, Monographs

1. **Minn I**, Menezes ME, Sarkar S, Yarlagadda K, Das SK, Emdad L, Sarkar D, Fisher PB, and Pomper MG. Molecular-genetic imaging of cancer. *Adv Cancer Res.* 2014;124:131-69
2. Menezes ME, Das SK, **Minn I**, Emdad L, Wang XY, Sarkar D, Pomper MG, and Fisher PB. Detecting tumor metastases: the road to therapy starts here. *Adv Cancer Res.* 2016;132:1-44. doi: 10.1016/bs.acr.2016.07.001. PMID: 27613128.

EDUCATIONAL ACTIVITIES

Educational Focus

I strongly believe in mutual education between mentors and mentees. From my graduate training to my current faculty career, I have taken opportunities to mentor students as much as I could. From my mentoring experience, I have learned that there is nothing more rewarding than helping students to find their research interest and career. I also learned that the best way to mentor students is to encourage them to be more interested in science so that they can learn how to enjoy what they have their passion in.

Teaching

Classroom instruction

1996 Fall	Lecturer, Undergraduate Students, Microbiology Lab I, Korea Advanced Institute of Science and Technology
1997 Fall	Lecturer, Undergraduate Students, Molecular Biotechnology Lab, Korea Advanced Institute of Science and Technology
2002 Fall	Lecturer, Undergraduate Students, Molecular Biotechnology Lab, The Pennsylvania State University
2003 Fall	Teaching Assistant, Undergraduate Students, Elementary Biochemistry, The Pennsylvania State University
2018 Fall	Guest lecture, Biomaterials II, Johns Hopkins University

Mentoring

Pre-doctoral Advisees /Mentees

2004-2007	Janice Shih, Undergraduate Student, Graduate Student at Brown University; BS
2007	Sarah Thorton, Undergraduate Student, Graduate Student at Harvard University; BS
2005-2008	Mathew Guerra, Undergraduate Student, Scientist at US FDA; BS
2012	Borja Barrera Cuesta, BS, Postdoctoral fellow at Syva Contigo, Spain; PhD
2012-2013	Hwan Mee Yong, MS, Research Technologist at Johns Hopkins School of Public Health
2013	Yoonhae Nam, BS, Pharmacist
2013	Hugh Giovinazzo, BS, Graduate Student at JHU
2013	Zoila Areli Lopez Bujanda, BS, Graduate Student at JHU
2013-2015	Keerthi Yarlagadda, BS, Medical Student at University of Maryland Baltimore

2013-2015	Maani Archang, BS, Medical Student at University of California Los Angeles; Shared research publication
2014	Matt Yanker, High School Intern, Undergraduate Student
2014	Elizabeth Horti, High School Intern, Undergraduate Student
2014	Karina Nieves Torres, BS, Graduate Student at JHU
2014-Current	Mary Brummet, MS, Research Associate at JHU; Shared research publications
2014-2017	Soo Min Koo, BS, Research Technologist at JHU; Shared research publications
2014-2016	Hye Soo Lee, BS, Pharmacology Student; Shared research publications
2015	William Lewis, BS, Research Scientist at Memorial Sloan Kettering Cancer Center.
2015-2016	Jeff Sul, Undergraduate Student at NYU
2015-2016	Haziq Siddiqi, BS, Graduate Student at Oxford University.
2015-2017	Benito Alvarez, Undergraduate Student at JHU
2015-2018	Joo-Chang Lee, Undergraduate Student at JHU
2016-Current	Andrew Park, BA, Research Technologist at JHU; Shared research publications
2016-Current	Ji Youn Lee, BA, Research Volunteer at JHU
2016	Emily Myers, High School Intern, Undergraduate Student at UC Davis
2017	Dahye Park, High School Intern
2017	Changhee Lee, High School Intern
2017-Current	Hwanhee Nam, Research Volunteer & Research technologist
2017-2018	Chentian Shen, Exchange Graduate Student

Post-doctoral Advisees /Mentees

2013	Susanne Lutze, MD, Physician at University Hospital Essen, Germany
2014-2017	Camila Gadens Zamboni, MD, Exchange Graduate Student at JHU
2015-2016	Colette shen, MD, PhD, Resident at JHU SOM; Shared research publications
2015-Current	Hye-Hyun Ahn, PhD, Postdoctoral fellow at JHU; Shared research publications
2016-2018	Hyun Hoon Chung, MD, PhD, Visiting Scholar at JHU, Associate Professor at Seoul National University
2017-2018	Yongseek Park, PhD, Visiting Scholar at JHU, Professor at Kyunghee University
2016-Current	Bei Cheng, PhD, Postdoctoral fellow at JHU

Educational Program Building / Leadership

Date	Role/percent effort, name of educational program or curriculum, any explanatory notes
2009-2010	President, Johns Hopkins Postdoctoral Association

RESEARCH ACTIVITIES

Inventions, Patents, Copyrights

2015	Co-inventor, Nuclear Imaging and Radiotherapeutics Agents Targeting Carbonic Anhydrase IX (second generation), Pending
2016	Co-inventor, Glucose Conjugates of Triptolide and Analogs, and Their Use Thereof, Pending
2014	Co-inventor, Compositions of nucleic acid-containing nanoparticles for <i>in vivo</i> delivery, Pending
2014	Co-inventor, Detectable Substrates for Aldehyde Dehydrogenase, USPTO 61/767,56 & 61/921,913; Publication for PCT/US2014/017735, Pending
2014	Co-inventor, Radioactive Substrates for Aldehyde Dehydrogenase, USPTO 61/791,272; Publication for PCT/US2014/030724, Pending
2014	Co-inventor, PSMA-Based Molecular-Genetic Reporter System, 61/954,947 & 61/972,833, Pending
2016	Co-inventor, Compositions of nucleic acid-containing nanoparticles for <i>in vivo</i> delivery USPTO 62/161,546, Pending
2018	Engineered cells expressing prostate-specific membrane antigen (PSMA) or a modified from thereof and related methods, USPTO 62/619,724 and PCT/US2018/026619, Pending

Technology Transfer Activities

2015	Co-inventor, Licensing Detectable “Substrates for Aldehyde Dehydrogenase” to EMN Millipore for commercial sales
2016	Co-inventor, Exclusive Licensing “Compositions of nucleic acid-containing nanoparticles for <i>in vivo</i> delivery” to Pharos Biologicals, LLC.
2015	Co-inventor, Glucose Conjugates of Triptolide and Analogs, and Their Use Thereof to Rapafysin Pharmaceuticals, Inc.

ORGANIZATIONAL ACTIVITIES (*in chronological order, earliest first by start date under each subcategory*)

Editorial Board appointments

2017 Associate editor, Molecular & Cellular Toxicology (ISSN: 1738-642X)

Journal peer review activities

Date	Journal full name (<i>do not abbreviate here</i>)
2014	British Journal of Cancer
2014	Stem Cells
2014	Interdisciplinary Bio Central
2015	Cancer Research
2016	Thranostics
2016	Journal of Nuclear Medicine
2016	Molecular Imaging and Biology
2017	Biomedicine&Pharmacotherapy
2017	Journal of Nuclear Medicine
2017	Molecular & Cellular Toxicology
2018	British Journal of Pharmacology

Other peer review activities [*non medico-legal*]

2018 Reviewer, Dutch Cancer Society/Grant review

Professional Societies

2002-2008	American Society for Cell Biology, Member
2008-2011	International Society for Stem Cell Biology, Member
2011-Current	American Association for Cancer Research, Active Member
2011-Current	World Molecular Imaging Society, Member, Vice Chair for Synthetic Biology and Reporter Genes Group
2011-Current	Society for Nuclear Medicine and Molecular Imaging, Member

Conference Organizer

Date	Sponsor/organization/group
2016-Current	World Molecular Imaging Society/World Molecular Imaging Congress/Synthetic Biology and Reporter Group (Vice Chair)
2017-Current	World Molecular Imaging Society/World Molecular Imaging Congress/Synthetic Biology and Reporter Group (Chair)
2017-Current	World Molecular Imaging Society/World Molecular Imaging Congress/Systems and Engineered Biology Abstract Review Committee (Chair)

Consultantships

2015-current	Cancer Targeting Systems, Inc.
2018-current	CBiomax, Inc.

RECOGNITION

Awards, Honors

2017	The Journal of Nuclear Medicine, Editors' choice award for the three best basic science articles in 2016
2009-2011	Postdoctoral Fellowship, Maryland Stem Cell Research Fund (July 2010-June 2012)
2002	Homer F. Braddock and Nellie H. and Oscar L. Roberts Fellowships at the Pennsylvania State University
1996-1998	Full-ride scholarship for graduate study, Korea Advanced Institute of Science and technology
1996	Valedictorian of Hanyang University Graduating Class of 1996
1992-1996	Full-ride scholarship for undergraduate study at Hanyang University

Invited Talks

JHMI/Regional	
2014	New Multi-Drug Resistance Pump Inhibitors for Central Nervous System Disease, Institute for NanoBioTechnology, BBB working Group, Rangos 271

National
International

- 2017 Molecular imaging of therapeutic cells, CDC, South Korea
- 2017 Molecular imaging of therapeutic cells, Cheonnam National University, South Korea
- 2017 Molecular imaging of therapeutic cells, DGIST, South Korea
- 2017 Molecular imaging of therapeutic cells, Kyunghee University, South Korea
- 2017 Molecular imaging of therapeutic cells, Korea Institute of Science and Technology, South Korea
- 2017 Reporter-based imaging of therapeutic immune cells, World Molecular Imaging Congress, Spotlight Session
- 2016 A New Theranostic Agent, [¹⁷⁷Lu]XYIMSR-01, for Targeting Carbonic Anhydrase IX, Society for Nuclear Medicine and Molecular Imaging, Annual Meeting
- 2016 [²¹¹At]YC-I-27 for PSMA-Targeted Alpha-Particle Radiopharmaceutical Therapy, Society for Nuclear Medicine and Molecular Imaging, Annual Meeting
- 2014 New ALDH-based agents for stem cells, World molecular imaging congress.
- 2014 New ALDH-based agents for stem cells, Korea University Department of Pharmacology, South Korea.
- 2014 Molecular-Genetic Imaging of Cancer, Hanyang University Department of Biochemistry and Molecular Biology, South Korea.
- 2014 ²²⁵Ac imaging of NK1-targeted α -particle for glioblastoma radiotherapy, Society for Nuclear Medicine and Molecular Imaging, Annual Meeting Biology, South Korea.
- 2007 Centrosome attachment to the nucleus requires the SUN-1 mediated localization of ZYG-12 to the outer membrane of the nuclear envelope, 16th International *C. elegans* Meeting.

OTHER PROFESSIONAL ACCOMPLISHMENTS

Posters

- Poster, World Molecular Imaging Congress, “New clinically compatible nanoplexes for molecular-genetic imaging of human cancers.” 2018
- Poster, World Molecular Imaging Congress, “A Bioreducible Ternary Nanoparticle for Efficient and Safe Delivery of Theranostic Nucleic Acid.” 2018
- Poster, American College of Neuropsychopharmacology, Annual Meeting “Measuring the Distribution of the Alpha7 Nicotinic Acetylcholine Receptor in Healthy Aging: An in Vivo Positron Emission Tomography Study With [¹⁸F]ASEM.” 2017
- Poster, International Society for Magnetic Resonance in Medicine, Annual Meeting “MR imaging-guided spine injections: Paradoxical particle formation of ropivacaine and dexamethasone poses a risk for spinal cord infarction events.” 2017
- Poster, Maryland Stem Cell Research Fund, Annual Meeting “Treatment of Diabetic Retinopathy with Human iPSC-Derived Vascular Progenitors.” 2016
- Poster, Society for Nuclear Medicine and Molecular Imaging, Annual Meeting “²¹¹At-Labeled Small-Molecule PSMA Inhibitors: Effect of Structure on Biodistribution in Mice.” 2016
- Poster, Annual meeting for American Association for Cancer Research, “A Dual-motif CAIX Inhibitor, [⁶⁴Cu]XYIMSR-06, for PET Imaging of Clear Cell Renal Cell Carcinoma.” 2016
- Poster, World molecular imaging congress “Imaging of Carbonic Anhydrase IX with Radio-Labeled Dual-motif Inhibitors.” 2015
- Poster, World molecular imaging congress “Spatially-precise brain-specific genetic reporter expression enabled by focused ultrasound and nonviral nanoparticle carriers.” 2015
- Poster, World molecular imaging congress “Delivery of GCPII/PSMA molecular imaging probes to the brain.” 2015
- Poster, Annual meeting for Society of Interventional Radiology, “Cancer-specific nanoparticle mediated DNA delivery to human hepatocellular carcinoma using synthetic poly(BETA-amino ester) vectors.” 2015
- Society for Nuclear Medicine and Molecular Imaging, Annual Meeting “CNS Markers of Inflammation and Oxidative Stress in Patients with Early Stage Schizophrenia: A Combined Study of CSF and [¹¹C]DPA-713 PET-Based Imaging.” 2015
- Poster, Joint Annual Meeting ISMRM-ESMRMB “Tumor-specific expression and detection of a CEST reporter gene”, 2014
- Poster, 6th Annual meeting of the Maryland Stem Cell Research Fund “New ALDH-based agents for stem cells.” 2013
- Poster, 5th Annual meeting of the Maryland Stem Cell Research Fund “Leukemic stem cells and their niche.” 2012
- Poster, 4th Annual meeting of the Maryland Stem Cell Research Fund “Leukemic stem cells and their niche.” 2011
- Poster, 46th Annual Meeting of the American Society for Cell Biology “Centrosome attachment to the nucleus requires the SUN-1 mediated localization of ZYG-12 to the outer membrane of the nuclear envelope.” 2006
- Poster, 15th International *C. elegans* Meeting “Centrosomal attachment to the nucleus” 2005
- Poster, 9th International Meeting for Korean Society for Molecular and Cellular Biology, “Antimicrobial Peptides Derived from the Pepsinogens in the Stomach of Bullfrog, *Rana catesbeiana*” 1997

Military Service

1998-2001 Military Officer (Lieutenant), Republic of Korea Air Force/ South Korea