
Jordan R. Yaron, Ph.D.

Current Address:

Virginia G. Piper Center for Personalized Diagnostics
 The Biodesign Institute
 Arizona State University
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Education**Doctor of Philosophy, Biological Design**

Arizona State University

April 2015

- Committee: Dr. Deirdre R. Meldrum (chair), Dr. Joseph N. Blattmann, Dr. Honor L. Glenn
- Dissertation: "Ion Flux Regulates Inflammasome Signaling" available at <https://repository.asu.edu/items/29676>

Bachelors of Science, Biological Sciences – Genetics, Cell and Developmental Biology

Arizona State University

May 2010

- *Summa cum laude*
- Barrett Honors College Thesis: "Automated Confocal Microscopy Assay: Studying Heterogeneity and Toxic Variability in Neoplastic Progression of Barrett's Esophagus Cells"

Professional Experience**Assistant Research Professor**

Arizona State University, The Biodesign Institute
 Virginia G. Piper Center for Personalized Diagnostics

2020 – Present

Postdoctoral Research Associate

Arizona State University, The Biodesign Institute
 Virginia G. Piper Center for Personalized Diagnostics

w/ Dr. Alexandra R. Lucas

2017 – 2020

Visiting Scholar

University of Florida, Dept. of Molecular Genetics & Microbiology
Adeno-associated Virus (AAV) design and construction

w/ Dr. Alfred S. Lewin

Summer 2017

Research Fellow

Mayo Clinic, Dept. of Medicine

w/ Dr. Vijay P. Singh

2015-2017

Graduate Research Associate

Arizona State University, The Biodesign Institute
 Center for Biosignatures Discovery Automation

w/ Dr. Deirdre R. Meldrum

2010-2015

Student Researcher

University of Washington / Arizona State University
 Enlighten '10 Expedition, R/V Thomas G. Thompson

w/ Dr. Cody Youngbull and Dr. John R. Delaney

2010

Research Assistant

Arizona State University, The Biodesign Institute
 Center for Ecogenomics

w/ Dr. Cody Youngbull

2009-2010

Teaching**Teaching Assistant**

Arizona State University, Graduate College
 BDE702 Biological Design II / BIO610 Responsible Conduct in Research

2012

Science Foundation Arizona Doctoral Teaching Fellow

Arizona State University and Kyrene School District, Tempe, AZ
 ASU Citizen-Scientist Engineer Program (K-12)

2011-2012

Teaching Assistant

Arizona State University, Barrett Honors College
 HON272: The Human Event

2009

Instructor

Arizona State University, Barrett Honors College
 Barrett Summer Scholars (K-12)

2008

Guest Lectures

MIC 220 – Biology of Microorganisms (Dr. Efreem Lim)
 PHY 472 – Advanced Biophysics Lab (Dr. Rizal Hariadi)
 CHE494/598 – Nanobiotechnology (Dr. Sheba Goklany)

Awards & Recognition

Ehrlich Award for Immunology Applications, Bidesign FUSION Scientific Retreat, Phoenix, AZ	2019
Best Oral Presentation, 8th International Symposium on SERPINS and Proteases in Health and Disease, Shanghai, China	2017
Poster of Distinction (x2), American Pancreatic Association 47th Annual Meeting, Boston, MA, USA	2016
Young Investigator Award, American Pancreatic Association 47th Annual Meeting, Boston, MA, USA	2016
Travel Award, Graduate & Professional Students Association, Arizona State University	2014
Travel Award, School of Biological & Health Systems Engineering, Arizona State University	2014
Microscopy & Microanalysis 2014 Presidential Scholar Award	2014
Google for Entrepreneurs Start-Up Weekend, 1st Place Overall Winner (Team Leader)	2014
Life Technologies/Ion Torrent Art of Breakthrough Contest, Finalist	2013
Arizona Imaging & Microanalysis Society 2012 Meeting Poster Award	2012
Doctoral Fellowship, Science Foundation Arizona	2011-2012
Life Technologies/Molecular Probes Cell Imaging Contest, 2nd Place	2011
Doctoral Recruitment Fellowship, Arizona State University	2010

Patents

Aliquot Tray

USD732187 (cited as prior art in 22 patents)	Issued 2015-06-16
USD838004	Issued 2019-01-08
USD841832	Issued 2019-02-26

Methods of Wound Healing with Serp-1 Polypeptides

US Application No. 62/673,386	Filed 2018-05-18
PCT Application No. PCT/US19/32997	Filed 2019-05-17

Serine Proteinase Inhibitors: SERP-1 and SERP-1 RCL-Derived Peptide Effect on Microbiome Composition and Uses Thereof

US Application No. 62/792,201	Filed 2019-01-14
PCT Application No. PCT/US20/13389	Filed 2020-01-13

Methods of Modulating Inflammation Associated with Spinal Cord Injury

US Application No. 62/808,707	Filed 2019-02-21
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Professional Societies

American Heart Association	Member
American Society for Cell Biology	Member and ASU Ambassador
Arizona Imaging and Microanalysis Society	Board Member
European Atherosclerosis Society	Member
International Atherosclerotic Society	Member
North American Vascular Biology Organization	Member

Service

Co-Chair, 10 th International Symposium on SERPINS and Proteases in Health and Disease, Sedona, AZ (Fall 2021 or Spring 2022)	Present
Planner and Workshop Instructor, 2020 AIMS Annual Meeting, Arizona Imaging and Microanalysis Society	2019 – Present
Grand Awards Judge, Intel International Science & Engineering Fair	2019
Chair, Bidesign Postdoc Career Club	2019 – Present
Expert Imaging Consultant, Bidesign Imaging Core, The Bidesign Institute at Arizona State University	2018 – Present
Invited Speaker, Science with a Twist, Arizona Science Center	2017
Bioscience Panelist, Phoenix Fanfest	2016
Invited Speaker, Science Cafe at MACH, Phoenix Central Library	2014
Ambassador to Arizona State University, American Society for Cell Biology	2014 - Present
Bioscience Panelist, Phoenix ComiCon	2014, 2016, 2017
Career Fair Visitor, Tavan Elementary School	2014
Arizona Regionals Judge, Arizona Science and Engineering Fair	2014
Arizona Regionals Judge, FIRST Robotics Competition	2014
Committee for Postdocs and Students (COMPASS), American Society for Cell Biology	2013 - Present
Volunteer, ASU/Bidesign Night of the Open Door	2012-2015, 2017 - Present
Judge, Foothills Elementary School Science Fair	2011
Bidesign Lab Liaison, The Bidesign Institute at Arizona State University	2009-2015, 2017 – Present

Peer Reviewer

- o Cell Death and Disease
- o FASEB Journal
- o PLoS ONE
- o Tissue and Cell
- o Cellular Physiology & Biochemistry
- o Cancer Management and Research
- o Cell Biology and Toxicology
- o Journal of Clinical Medicine
- o Histology and Histopathology
- o Diagnostics
- o Pancreatology

Mentoring History

Member of Honors Thesis Committee

<u>Previous</u>	<u>Current Position/Location</u>	<u>Years Supervised</u>
Mr. Andrew Shabilla	Process Development Engineer, Illumina, San Diego, CA	2010 – 2012
# Ms. Colleen Ziegler	Principle Technologist, bioSyntagma, Phoenix, AZ	2010 – 2012
Ms. Garima Khanal	Staff Writer, Women's Republic, Glendale, AZ	2013
Dr. Mounica Rao	Pediatrics Resident, Children's Hospital of Los Angeles	2013 – 2015
Mr. Fred Lee	Medical student, University of Illinois College of Medicine	2014 – 2015
Mr. Shubham Trivedi	Undergraduate, Arizona State University	2015
Ms. Saara Khan	Undergraduate, Cornell University	2016
Ms. Quinn Urbaniak-Dornstauder	Professional basketball player, Quesos El Pastor La Polvorosa, Spain	2017
Ms. Mercedeh Javadi	MPH student, University of Arizona	2017 – 2019
Ms. Sarah Wallace	MBA student, West Texas A&M	2018
Dr. Savanah McMahan	Pathology Resident, Yale University – New Haven Hospital	2018 – 2019

<u>Current</u>	<u>Position</u>	<u>Years Supervised</u>
Ms. Michelle Burgin	Master's (+1) student	2017 – Present
# Ms. Lauren Schutz	Undergraduate Honors student	2018 – Present
Ms. Enkidia Awo	Undergraduate student	2019 – Present
Mr. Michael Juby	Medical student intern	2019 – Present
Mr. Nathan Zhang	High school student	2019 – Present
Dr. Ayman Fath	Medical Resident intern	2019 – Present

Publications & Presentations

Articles. Descending chronological order.

1. **Yaron JR**[†], Zhang L[†], Guo Q, Burgin M, Schutz L, Awo E, Wise L, Krause KL, Ildefonso CJ, Kwiecien JM, Juby M, Rahman MM, Chen H, Moyer RW, Alcamí A, McFadden G, Lucas AR. Deriving Immune Modulating Drugs from Viruses – A New Class of Biologics. *In Revision* ([†]Equal Contributions)
2. Kwiecien JM[†], Zhang L[†], **Yaron JR**[†], Schutz LN, Kwiecien-Delaney CJ, Awo EA, Burgin M, Dabrowski W, Lucas AR. Local Chitosan-Serpin Injection after Spinal Cord Injury Reduces Inflammatory Damage and Improves Neurologic Function. *In Revision* ([†]Equal Contributions)
3. Kwiecien JM, Dabrowski W, Dabrowska-Bouta B, Sulkowski G, Oakden W, Kwiecien-Delaney CJ, **Yaron JR**, Zhang L, Schutz L, Marzec-Kotarska B, Stanisz GJ, Karis JP, Struzynska L, Lucas AR. Prolonged inflammation leads to ongoing damage after spinal cord injury. *PLoS ONE - Accepted*
4. **Yaron JR**[†], Ambadapadi S[†], Zhang L, Chavan RN, Tibbetts SA, Keinan S, Varsani A, Maldonado J, Tafoya AM, Bullard WL, Kilbourne J, Stern-Harbutte A, Krajmalnik-Brown R, Munk BH, Koppang EO, Lim ES, Lucas AR (2020). Immune protection is dependent on the gut microbiome in a lethal mouse gammaherpesviral infection. *Scientific Reports*. 10(1), 1-13 ([†]Equal Contributions)
5. Khatua B, **Yaron JR**, El-Kurdi B, Kostenko S, Papachristou GI, Singh VP (2020). Ringer's lactate prevents early organ failure by providing extracellular calcium. *Journal of Clinical Medicine*. 9(1), 263
6. Zhang L[†], **Yaron JR**[†], Tafoya AM, Wallace SE, Kilbourne J, Haydel S, Rege K, McFadden G, Lucas AR (2019). A virus-derived immune modulating SERPIN accelerates wound closure with improved collagen remodeling. *Journal of Clinical Medicine*. 8(1626), 1-17 ([†]Equal Contributions)
- Selected as issue cover
7. **Yaron JR**[†], Chen H[†], Ambadapadi S[†], Zhang L, Tafoya AM, Munk BH, Wakefield D, Fuentes J, Marques BJ, Harripersaud K, Bartee MY, Davids J, Zheng D, Rand K, Dixon L, Moyer R, Clapp W, Lucas AR (2019). Serp-2, a virus-derived apoptosis and inflammasome inhibitor, attenuates liver ischemia-reperfusion injury in mice. *Journal of Inflammation*. 16(1), 12 ([†]Equal Contributions)
8. **Yaron JR**[†], Kwiecien JM[†], Zhang L[†], Ambadapadi S, Wakefield DN, Clapp WL, Dabrowski W, Burgin M, Munk BH, McFadden G, Chen H, Lucas AR (2019). Modifying the Organ Matrix Pre-Engraftment; A New Transplant Paradigm? *Trends in Molecular Medicine*. 25(7), 626-639 ([†]Equal Contributions)
9. Kwiecien JM, Dabrowski W, Marzec-Kotarska B, Kwiecien-Delaney CJ, **Yaron JR**, Zhang L, Schutz L, Lucas AR (2019). Myxoma virus derived immune modulating proteins, M-T7 and Serp-1, reduce early inflammation after spinal cord injury in the rat model. *Folia Neuropathologica*. 57(1), 41-50
10. Chen H, Bartee M, **Yaron J**, Liu L, Zhang L, Zheng D, Hogue I, Bullard W, Tibbetts S, Lucas A (2018). Mouse Gamma Herpesvirus MHV-68 Induces Severe Gastrointestinal (GI) Dilatation in Interferon Gamma Receptor-Deficient Mice (IFN γ R^{-/-}) That Is Blocked by Interleukin-10. *Viruses*. 10(10), 518
11. Kostenko S, Heu CC, **Yaron JR**, Singh G, Oliveira CD, Muller WJ, Singh VP (2018). c-Src Regulates Cargo Transit via the Golgi in Pancreatic Acinar Cells. *Scientific Reports*. 8(1), 11903
12. Chen H, Ambadapadi S, Wakefield D, Bartee MY, **Yaron JR**, Zhang L, Archer-Hartmann SA, Azadi P, Burgin M, Borges C, Zheng D, Ergle K, Muppala V, Morshed S, Rand K, Clapp W, Proudfoot A, Lucas A (2018). Selective Deletion of Heparan Sulfotransferase Enzyme, Ndst1, in Donor Endothelial and Myeloid Precursor Cells Significantly Decreases Acute Allograft Rejection. *Scientific Reports*. 8(1), 13433
13. Mahon BP, Ambadapadi S, **Yaron JR**, Lomelino CL, Pinard MA, Keinan S, Kurnikov I, Macaulay C, Zhang L, Reeves W, McFadden G, Tibbetts S, McKenna R, Lucas AR (2018). Crystal Structure of Serp-1, a Myxomavirus-derived Immune Modulating Serpin; Structural Design of Serpin

Reactive Center Loop (RCL) Peptides with Improved Therapeutic Function.
Biochemistry. 57(7), 1096-1107

14. Al-Ani M[†], Ambadapadi S[†], **Yaron JR**[†], Zheng D, Fortunel A, Doroton-Guevara M, Liu L, Morshed S, Fricker J, Miles W, McKillop M, Lucas A (2017). Atrial Fibrillation Ablation Increases Inflammation-Chemokine Modulation Suppresses Activation of Leukocytes Isolated after Ablation. *Cardiovascular and Hematologic Disorders: Drug Targets*. 17(3), 195-204 (†Equal Contributions)
15. Lucas A, Ambadapadi S, Mahon B, Viswanathan K, Chen H, Liu L, Dai E, Munuswami-Ramanujam G, Kwiecien JM, **Yaron JR**, Narute PS, McKenna R, Keenan S, Brantly M, McFadden G (2017). The Serpentine Solution. *Journal of Clinical and Experimental Cardiology*. 8(1), e150
16. **Yaron JR**, Rao MY, Gangaraju S, Zhang L, Kong X, Su F, Tian Y, Glenn HL, Meldrum DR (2016). The oxindole Syk inhibitor OXSI-2 blocks nigericin-induced inflammasome signaling and pyroptosis independent of potassium efflux. *Biochemical and Biophysical Research Communications*. 472(3), 545-550
17. Oliveira CD, Patel K, Mishra V, Trivedi RN, Noel P, Singh A, **Yaron JR**, Singh VP (2016). Characterization and Predictive Value of Near Infrared 2-Deoxyglucose Optical Imaging in Severe Acute Pancreatitis. *PLoS ONE*. 11(2), e0149073
18. **Yaron JR**, Gangaraju S, Rao MY, Kong X, Zhang L, Su F, Tian Y, Glenn HL, Meldrum DR (2015). K⁺ regulates Ca²⁺ to drive inflammasome signaling: dynamic visualization of ion flux in live cells. *Cell Death and Disease*. 6(10), e1954
19. Kong X, Su F, Zhang L, **Yaron J**, Lee F, Shi Z, Tian Y, Meldrum DR (2015). A Highly Selective Mitochondria-Targeting Fluorescent K⁺ Sensor. *Angewandte Chemie: International Edition*. 54(41), 12053-12057
20. **Yaron JR**, Ziegler CP, Tran TH, Glenn HL, Meldrum DR (2014). A convenient, optimized pipeline for isolation, fluorescence microscopy and molecular analysis of live single cells. *Biological Procedures Online*. 16(9)

Published abstracts & proceedings. Descending chronological order.

1. **Yaron J**, Ambadapadi S, Zhang L, Tibbetts S, Keinan S, Chavan R, Varsani A, Maldonado J, Tafoya A, Bullard W, Kilbourne J, Munk B, Thomas R, Koppang E, Lim E, Lucas A (2019). Gut Microbiota Determine Severity Of Lethal Gammaherpesvirus-Induced Vasculitis And Efficacy Of Immune-Modulating Therapy In Mice. *Atherosclerosis*. 287, e76, 0559
2. Lucas A, **Yaron J**, Zhang L (2019). Modifying Mouse Herpesvirus-Induced Vasculitis and Serpin Anti-Inflammatory Treatment-Profound Effects of the Gut Microbiota. *The FASEB Journal*. 33(1_supplement), 461.13
3. Shah C, Moreb J, Kannampuzha J, **Yaron J**, Ambadapadi S, Yao J, Schultz-Cherry S, House M, Maranian P, Zhang L, Gong Y, Pepine C, Varsani A, Lucas A (2018). Identification of Viral Gene Signatures in Cancer Patients With Reduced Ejection Fraction After Chemotherapy. *Circulation*. 138(Suppl_1), A15398
4. Kwiecien J, Kwiecien-Delaney CJ, **Yaron J**, Schutz L, Wallace S, Zhang L, Dabrowski W, Lucas AR (2018). Analysis of virus-derived immune modulating protein therapeutics infused subdurally in a rat model of spinal cord injury. *Journal of Neurotrauma*. 35(16), A52
5. Kwiecien J, Dabrowska-Bouta D, Marzec-Kotarska B, Oakden W, **Yaron J**, Kwiecien-Delaney CJ, Ostrowska A, Rola R, Klapac M, Stanisz G, Struzynska L, Dabrowski W, Lucas AR (2018). Mechanisms in pathogenesis of the spinal cord injury in the rat model. *Journal of Neurotrauma*. 35(16), A52
6. Lucas A, **Yaron JR**, Ambadapadi S, Zhang L (2018). Modulation of inflammatory vasculitis (IVS) and antiinflammatory treatment by the gut microbiota-a mouse herpesvirus IVS model. *Cardiology*. 140, 257
7. Lucas AR, Chen H, Ambadapadi S, **Yaron J**, Zhang L (2018). Conditional Deletion of Heparan Sulfotransferase Enzyme, Ndst1, in Donor Endothelial Significantly Decreases Acute Allograft Rejection. *Atherosclerosis Supplements* 32, 109
8. Ambadapadi S, Wakefield DN, Chen H, Bartee MY, Azadi P, Archer-Hartmann S, **Yaron JR**, Zheng D, Ergle KD, Zhang L, Borges CR, Croker BP, Rand KH, Esko JD, Clapp WL, Lucas A (2017). Modulating Heparan Sulfation and Disaccharide Content Significantly Blocks Early Rejection in Mouse Renal Transplants. *Circulation* 136(S1), A18629
9. Ambadapadi S, **Yaron JR**, Mahon B, Thomas RM, Jobin C, Karst SM, Tibbetts SA, Keinan S, Varsani A, Zhang L, McFadden G, Lucas A (2017). The Gut Microbiome Modulates Disease Progression and Anti-Inflammatory Treatment in Mouse Herpesvirus-Induced Vasculitis. *Circulation* 136(S1), A18525.
10. Lucas A, Ambadapadi S, Mahon B, Thomas RM, Jobin C, Karst S, Tibbetts S, **Yaron JR**, Keinan S, Varsani A, McFadden G (2017). Modified Myxomaviral Serpin Reactive Center Loop (RCL) Peptide Improves Survival and Outcomes in an Accelerated Lethal Mouse Inflammatory Vasculitis Syndrome Model. *Cardiology* 137(S1), 126
11. **Yaron JR**, Khatua B, Patel K, Oliveira CD, Singh VP (2017). The Extracellular Ca²⁺ Provided by Ringer's Lactate but Not Lactate Reduces Necrosis and Improves Survival During Severe Acute Pancreatitis. *Gastroenterology* 152(5S1), S893 doi:10.1016/S0016-5085(17)33049-4
12. El Kurdi B, **Yaron JR**, Masood S, Noel P, Patel K, Khatua B, Oliveira CD, Singh VP (2017). Lipotoxicity May Result in Inflammatory Cell Death and Associated Immune Paralysis During Severe Acute Pancreatitis (SAP). *Gastroenterology* 152(5S1), S895. doi:10.1016/S0016-5085(17)33058-5
13. **Yaron JR**, Patel K, Khatua B, Oliveira CD, Singh VP (2016). Extracellular Ca²⁺ Contributes to the Beneficial Effects of Lactated Ringer's During Acute Pancreatitis. *Pancreas* 45. **Poster of Distinction**
14. **Yaron JR**, Singh G, Patel K, Trivedi RN, Oliveira CD, Singh VP (2016). C-Src is Involved in Physiologic Zymogen Synthesis and Packaging Through the Golgi in Pancreatic Acinar Cells. *Pancreas* 45. **Poster of Distinction**
15. Oliveira CD, Patel K, Mishra V, Trivedi RN, Bradley J, **Yaron JR**, Singh VP (2016). Transgastric Therapeutic Pancreatic Hypothermia as a Novel Therapy for Acute Pancreatitis (AP). *Pancreas* 45.
16. Patel K, Khatua B, **Yaron JR**, Oliveira CD, Singh RJ, Papachristou GI, Yadav D, Lee K, Murad F, Singh VP (2016). Bile Acids (BA) in Human Pancreatic Necrosis (PN) Worsen Acute Pancreatitis (AP) via a Non-Micellar Interaction with Fatty Acids (FA). *Pancreas* 45.
17. **Yaron JR**, Pan J, Borkar T, Lee KB, Wang KC, Anderson CL, Glenn HL and Meldrum DR (2014). Automated Cell Counting in a High Density, Polymer-Coated, Live Single Cell Sandwich Microarray. *Microsc. Microanal.* 20(S3), 1438-1439

18. **Yaron JR**, Zhang L, Kong X, Ziegler CP, Su F, Gangaraju S, Tian Y, Glenn HL, and Meldrum DR (2014). Real-time visualization of intracellular potassium dynamics in mouse macrophages during inflammasome-associates processes. *Mol. Biol. Cell* 25, P635
19. **Yaron J**, Ziegler C, Tran T, Tian Y, Su F, Glenn HL, and Meldrum DR (2013). Single cell temporal heterogeneity in caspase-1 activation in response to NLRP3 stimuli is independent of potassium ion efflux rate. *Mol. Biol. Cell* 24, 1543

Book chapters.

1. **Yaron, J.R.**, Ambadapadi, S., Zhang, L., Lucas, A., 2018. Kinetic Measurement of Serpin Inhibitory Activity by Real-time Fluorogenic Biochemical Assay. *SERPINS: Methods and Protocols (Methods in Molecular Biology)*. SpringerNature/Humana Press, Vol. 1826. ISBN: 978-1-4939-8644-6, pp.65-71
2. Zhang, L., **Yaron, J.R.**, Ambadapadi, S., Lucas, A., 2018. Viral Serpin Reactive Center Loop (RCL) Peptides: Design and Testing. *SERPINS: Methods and Protocols (Methods in Molecular Biology)*. SpringerNature/Humana Press, Vol. 1826. ISBN: 978-1-4939-8644-6, pp.133-142
3. Chen, H., Ambadapadi, S., Dai, E., Liu, L., **Yaron, J.R.**, Zhang, L., Lucas, A., 2018. Analysis of *In Vivo* Serpin Functions in Models of Inflammatory Vascular Disease. *SERPINS: Methods and Protocols (Methods in Molecular Biology)*. SpringerNature/Humana Press, Vol. 1826. ISBN: 978-1-4939-8644-6, pp.157-182
4. Lucas, A., **Yaron J.R.**, Zhang, L., Macaulay, C., McFadden, G., 2018. Serpins: Development for Therapeutic Applications. *SERPINS: Methods and Protocols (Methods in Molecular Biology)*. SpringerNature/Humana Press, Vol. 1826. ISBN: 978-1-4939-8644-6, pp.255-265
5. Lucas, A., **Yaron, J.R.**, Zhang, L., Ambadapadi, S., 2018. Overview of Serpins and Their Roles in Biological Systems. *SERPINS: Methods and Protocols (Methods in Molecular Biology)*. SpringerNature/Humana Press, Vol. 1826. ISBN: 978-1-4939-8644-6, pp.1-7
6. Maldonado, J., **Yaron, J.R.**, Zhang, L., Lucas, A., 2018. Next-Generation Sequencing Library Preparation for 16S rRNA Microbiome Analysis After Serpin Treatment. *SERPINS: Methods and Protocols (Methods in Molecular Biology)*. SpringerNature/Humana Press, Vol. 1826. ISBN: 978-1-4939-8644-6, pp.213-221

Oral presentations.

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|--|--------------------|
| 1. Arizona State University Biotechnology Advisory Board, Tempe, AZ, USA | March 20, 2020 |
| 2. 9 th International Symposium on SERPINS and Proteases in Health and Disease (SERPINS 2019), Seville, Spain | September 21, 2019 |
| 3. Arizona State University Biotechnology Advisory Board, Phoenix AZ and Boston, MA, USA | September 13, 2019 |
| 4. AZ Symposium on Virology, Immunology, Microbiomes and Infectious Disease, Phoenix, AZ, USA | June 7, 2019 |
| 5. 87 th European Atherosclerosis Society Congress, Maastricht, The Netherlands | May 28, 2019 |
| 6. Barrow Neurological Institute, St. Joseph's Hospital and Medical Center, Phoenix, AZ, USA | May 20, 2019 |
| 7. Viromics Workshop, Ohio State University, Columbus, OH, USA | May 10, 2019 |
| 8. Viroholics Seminar Series, Biodesign Institute at ASU, Tempe, AZ, USA | February 1, 2019 |
| 9. 2 nd Annual UA-ASU Virology Symposium, Tucson, AZ, USA | January 14, 2019 |
| 10. American Society for Biochemistry and Molecular Biology ASU Chapter, Arizona State University, Tempe, AZ, USA | November 8, 2018 |
| 11. Vascular Biology 2018, Newport, RI, USA | October 15, 2018 |
| 12. ImageJ Technical Workshop, Biodesign Institute at ASU, Tempe, AZ, USA | August 21, 2018 |
| 13. ASU Postdoc Research BLITZ, Arizona State University, Tempe, AZ, USA | June 20, 2018 |
| 14. XXII International Poxvirus, Asfarvirus and Iridovirus Conference, Taipei, Taiwan | May 28, 2018 |
| 15. Fusion 2018 Biodesign Scientific Retreat, Carefree, AZ, USA | April 13, 2018 |
| 16. 8 th International Symposium on SERPINS and Proteases in Health and Disease, Shanghai, China | March 24, 2017 |
| 17. American Society for Cell Biology Meeting, Philadelphia, PA, USA | December 8, 2014 |