

Jordan R. Yaron, Ph.D.
Assistant Research Professor

Current Address:
Rege Bioengineering Lab
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Education

- 2015 Doctor of Philosophy, Biological Design**
Arizona State University
Dissertation: *Ion Flux Regulates Inflammasome Signaling*
available at <https://repository.asu.edu/items/29676>
Committee: Dr. Deirdre R. Meldrum, Dr. Joseph N. Blattmann, Dr. Honor L. Glenn
- 2010 Bachelors of Science, Biological Sciences – Genetics, Cell and Developmental Biology**
Arizona State University
Summa cum laude
Honors Thesis: *Automated Confocal Microscopy Assay: Studying Heterogeneity and Toxic Variability in Neoplastic Progression of Barrett's Esophagus Cells*
Committee: Dr. Cody Youngbull, Dr. Page Baluch, Dr. Robert W. Roberson

Professional Experience

- 2020 – Present Assistant Research Professor**
Arizona State University, Ira A. Fulton Schools of Engineering
School for Engineering of Matter, Transport and Energy
Rege Bioengineering Lab
- 2020 Assistant Research Professor**
Arizona State University, The Biodesign Institute
Virginia G. Piper Center for Personalized Diagnostics
Lucas Viral Immune Modulator Lab
- 2017 – 20 Postdoctoral Research Associate** Advisor: Alexandra Lucas, MD, FRCPC
Arizona State University, The Biodesign Institute
Virginia G. Piper Center for Personalized Diagnostics
Lucas Viral Immune Modulator Lab
- Summer 2017 Visiting Scholar** Advisor: Alfred S. Lewin, PhD
University of Florida, Dept. of Molecular Genetics & Microbiology
Lewin Immune Modulation Gene Therapy Lab
- 2015 – 17 Research Fellow** Advisor: Vijay P. Singh, MBBS
Mayo Clinic, Dept. of Medicine
Singh Pancreatitis and Acute Outcomes Research Lab
- 2010 – 15 Graduate Research Associate** Advisor: Deirdre R. Meldrum, PhD
Arizona State University, The Biodesign Institute
Center for Biosignatures Discovery Automation
- Fall 2010 Student Researcher** Advisor: Cody Youngbull, PhD
University of Washington – Arizona State University
Enlighten 2010 Expedition
R/V Thomas G. Thompson John R. Delaney, PhD
- 2009 – 10 Research Assistant** Advisor: Cody Youngbull, PhD
Arizona State University, The Biodesign Institute
Center for Ecogenomics

Teaching

- 2017 – Present** **Guest Lecturer**
Arizona State University
MIC 220 *Biology of Microorganisms (Dr. Efrem Lim)*
PHY 472 *Advanced Biophysics (Dr. Rizal Hariadi)*
CHE 494/598 *Nanobiotechnology (Dr. Sheba Goklany)*
- 2012** **Teaching Assistant**
Arizona State University, Graduate College
BDE 702 *Biological Design II*
BIO 610 *Responsible Conduct in Research*
- 2011 – 12** **Science Foundation Arizona Doctoral Teaching Fellow**
Arizona State University and Kyrene School District, Tempe, AZ
K-12 *ASU Citizen-Scientist Engineer Program*
- 2009** **Teaching Assistant**
Arizona State University, Barrett Honors College
HON 272 *The Human Event*
- 2008** **Instructor**
Arizona State University, Barrett Honors College
K-12 *Barrett Summer Scholars*

Awards & Recognition

- 2019** Ehrlich Award for Immunology Applications, Biodesign FUSION Scientific Retreat, Phoenix, AZ
2017 Best Oral Pres., 8th Int'l. Symposium on SERPINS & Proteases in Health & Disease, Shanghai, China
2016 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
2014 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)
2013 Life Technologies/Ion Torrent Art of Breakthrough Contest, Finalist
2012 Arizona Imaging & Microanalysis Society 2012 Meeting Poster Award
2011 – 12 Doctoral Fellowship, Science Foundation Arizona
2011 Life Technologies/Molecular Probes Cell Imaging Contest, 2nd Place
2010 Doctoral Recruitment Fellowship, Arizona State University

Patents (8 total)

- Issued** **Aliquot Tray (3 patents)**
2015-06-16 USD732187 (cited as prior art in 25 patents)
2019-01-08 USD838004 (cited as prior art in 1 patent)
2019-02-26 USD84183
- Filed** **Methods of Wound Healing with Serp-1 Polypeptides**
2018-05-18 US Application No. 62/673,386
2019-05-17 PCT Application No. PCT/US19/32997
2020-04-10 *Exclusive Option Signed – Serpass Biologics*
- Filed** **Serine Proteinase Inhibitors: SERP-1 and SERP-1 RCL-Derived Peptide Effect on Microbiome Composition and Uses Thereof**
2019-01-14 US Application No. 62/792,201
2020-01-13 PCT Application No. PCT/US20/13398
2020-04-10 *Exclusive Option Signed – Serpass Biologics*
- Filed** **Methods of Modulating Inflammation Associated with Spinal Cord Injury**
2019-02-21 US Application No. 62/808,707
- Filed** **New Composition of Immunomodulating Serpin, Serp-1**
2020-04-29 US Application No. 63/017,598

Professional Societies

American Society for Cell Biology	<i>Member and ASU Ambassador</i>
Arizona Imaging and Microanalysis Society	<i>Board Member</i>
Society for Leukocyte Biology	<i>Member</i>
Wound Healing Society	<i>Member</i>

Service

Present	Co-Chair, 10th Int'l. Symposium on SERPINS & Proteases in Health & Disease, Sedona, AZ (Scheduled for Fall 2022)	
2020	Invited Speaker, Smile on Seniors of Arizona	
2019 – Present	Planner and Workshop Instructor, 2021 AIMS Annual Meeting, Arizona Imaging and Microanalysis Society (Deferred to 2021)	
2019	Grand Awards Judge, Intel International Science & Engineering Fair	
2019	Chair, Biodesign Postdoc Career Club	
2018 – Present	Expert Consultant, Bioscience Imaging Core, The Biodesign Institute, Arizona State University	
2017	Invited Speaker, Science with a Twist, Arizona Science Center	
2016	Bioscience Panelist, Phoenix Fanfest	
2014	Invited Speaker, Science Cafe at MACH, Phoenix Central Library	
2014 – Present	Ambassador to Arizona State University, American Society for Cell Biology	
2014, -16, -17	Bioscience Panelist, Phoenix ComiCon	
2014	Career Fair Visitor, Tavan Elementary School	
2014	Arizona Regionals Judge, Arizona Science and Engineering Fair	
2014	Arizona Regionals Judge, FIRST Robotics Competition	
2013 – 20	Committee for Postdocs and Students (COMPASS), American Society for Cell Biology	
2012 – 15,	Volunteer, ASU/Biodesign Night of the Open Door	
2017 – Present		
2011	Judge, Foothills Elementary School Science Fair	
2009 – 15,	Biodesign Lab Liaison, The Biodesign Institute at Arizona State University	
2017 – 20		
<u>Peer Reviewer</u>	<i>Cell Death and Disease</i>	<i>FASEB Journal</i>
	<i>Cellular Physiology & Biochemistry</i>	<i>Cancer Management and Research</i>
	<i>Histology and Histopathology</i>	<i>Diagnostics</i>
	<i>Genes</i>	<i>Biomedicines</i>
	<i>PLoS ONE</i>	<i>Tissue and Cell</i>
	<i>Cell Biology and Toxicology</i>	<i>Journal of Clinical Medicine</i>
	<i>Pancreatology</i>	<i>Cells</i>
	<i>Molecules</i>	<i>Pharmaceuticals</i>
	<i>International Journal of Molecular Sciences</i>	<i>Vaccines</i>

Mentoring History

Honors Thesis Committee & Masters Thesis Committee

<u>Years</u>	<u>Mentee</u>	<u>Current Position/Location</u>
2010 – 12	Mr. Andrew Shabilla	Process Development Engineer, Illumina, San Diego, CA
2010 – 12	# Ms. Colleen Ziegler	Director of Operations, bioSyntagma, Phoenix, AZ
2013	Ms. Garima Khanal, PA-C	Physician's Assistant Graduate, Northern Arizona University
2013 – 15	Dr. Mounica Rao	Pediatrics Resident, Children's Hospital of Los Angeles
2014 – 15	Mr. Fred Lee	Medical student, University of Illinois College of Medicine
2015	Mr. Shubham Trivedi	Undergraduate, Arizona State University
2016	Ms. Saara Khan	Undergraduate, Cornell University
2017	Ms. Quinn Urbaniak-Dornstauder	Professional basketball player, Cadí La Seu, La Seu d'Urgell, Spain
2017 – 19	Ms. Mercedeh Javadi	MPH student, University of Arizona
2018	Ms. Sarah Wallace, MBA	Private Business Owner, Arizona
2018 – 19	Dr. Savanah McMahon, MD	Pathology Resident, Yale University – New Haven Hospital

2019 – 20	Dr. Ayman Fath, MD	Internal Medicine Resident, Creighton University Arizona Health Ed. Alliance, Phoenix, AZ
2019 – 20	Ms. Enkidia Awo	Post baccalaureate medical school prospective
2019 – 20	Dr. Michael Juby, DO	Internal Medicine Resident, Naval Medical Center Portsmouth, Virginia
2017 – Present	& Ms. Michelle Burgin	Master's (+1) student, Molecular and Cellular Biology
2018 – Present	# Ms. Lauren Schutz	Undergraduate Honors student
2019 – Present	Mr. Deepanjan Ghosh	PhD student, Biological Design
2020	Ms. Roxana Beladi	KCU School of Medicine student
2020	Mr. Kyle Varkoly	KCU School of Medicine student
2020 – Present	Ms. Antara Sira	Undergraduate Honors Student

Publications (24 total)

- 2020** Khatua B, El Kurdi B, Patel K, Rood C, Noel P, Crowell M, **Yaron J**, Kostenko S, Guerra A, Faigel DO, Lowe M, Singh VP. [Adipose saturation reduces lipotoxic systemic inflammation and explains the obesity paradox.](#) *Science Advances*. **In Revision**.
- Yaron JR**[†], Zhang L[†], Guo Q, Awo EA, Burgin M, Schutz LN, Zhang N, Kilbourne J, Daggett-Vondras J, Lowe KM, Lucas AR. [Recombinant Myxoma virus-derived immune modulator M-T7 accelerates cutaneous wound healing and improves tissue remodeling.](#) *Pharmaceutics*. 12(11), 1003. (†Equal Contributions)
- Kwiecien JM, Dabrowski W, Kwiecien-Delaney BJ, Kwiecien-Delaney CJ, Siwicka-Gieroba D, **Yaron JR**, Zhang L, Delaney KH, Lucas AR (2020). [Neuroprotective effect of subdural infusion of Serp-1 in spinal cord trauma.](#) *Biomedicines*. 8(10), 372.
- Kwiecien JM, Dabrowski W, **Yaron JR**, Zhang L, Delaney KH, Lucas AR (2020). [The Role of Astrogliosis in Formation of the Syrinx in Spinal Cord Injury.](#) *Current Neuropharmacology*. *In Press*.
- Ghosh D, Godeshala S, Nityanandan R, Islam MS, **Yaron JR**, DiCaudo D, Kilbourne J, Rege K (2020). [Copper-Eluting Fibers for Enhanced Tissue Sealing and Repair.](#) *ACS Applied Materials & Interfaces*. 12(25), 27951-27960
- Kwiecien JM[†], Zhang L[†], **Yaron JR**[†], Schutz LN, Kwiecien-Delaney CJ, Awo EA, Burgin M, Dabrowski W, Lucas AR (2020). [Local Chitosan-Serpin Injection after Spinal Cord Injury Reduces Inflammatory Damage and Improves Neurologic Function.](#) *Journal of Clinical Medicine*. 9(4), 1221 (†Equal Contributions)
- Yaron JR**[†], Zhang L[†], Guo Q, Burgin M, Schutz L, Awo E, Wise L, Krause KL, Ildfonso CJ, Kwiecien JM, Juby M, Rahman MM, Chen H, Moyer RW, Alcamí A, McFadden G, Lucas AR (2020). [Deriving Immune Modulating Drugs from Viruses – A New Class of Biologics.](#) *Journal of Clinical Medicine*. 9(4), 972 (†Equal Contributions)
- Kwiecien JM, Dabrowski W, Dabrowska-Bouta B, Sulkowski G, Oakden W, Kwiecien-Delaney CJ, **Yaron JR**, Zhang L, Schutz L, Marzec-Kotarska B, Stanisiz GJ, Karis JP, Struzynska L, Lucas AR (2020). [Prolonged inflammation leads to ongoing damage after spinal cord injury.](#) *PLoS ONE*. 15(3), e0226584
- 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)
- 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
- 2019** 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**
- 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)

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)

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

2018 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 \(IFN \$\gamma\$ R^{-/-}\) That Is Blocked by Interleukin-10.](#) *Viruses*. 10(10), 518

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

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

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

2017 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)

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

2016 **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

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

2015 **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

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

2014 **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 Conference Abstracts / Proceedings (19 total)

2019 **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

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

2018 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

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

Kwiecien J, Dabrowska-Bouta D, Marzec-Kotarska B, Oakden W, **Yaron J**, Kwiecien-Delaney CJ, Ostrowska A, Rola R, Klapiec M, Staniszc 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

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

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

2017 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

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.

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 Vasculitic Syndrome Model.](#) *Cardiology*. 137(S1), 126

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

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

2016 **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**

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**

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.

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.

2014 **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.](#) *Microscopy & Microanalysis*. 20(S3), 1438-1439

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-associated processes.](#) *Molecular Biology of the Cell*. 25, P635

2013 **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.](#) *Molecular Biology of the Cell*. 24, 1543

Book Chapters (6 total)

- 2018 **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
- 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
- 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
- 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
- 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
- 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 (17 total)

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