



## Teaching

### 2021 – Present Individualized Research Advisor

Arizona State University  
*Spring 2022 NTR 590* Reading and Conference  
*Fall 2021 BIO 495* Undergraduate Research

### 2018 – Present Guest Lecturer

Arizona State University  
*Fall 2018 PHY 472* Advanced Biophysics Dr. Rizal Hariadi 6 enrolled  
*Fall 2019 MIC 220* Biology of Microorganisms Dr. Efreem Lim 95 enrolled  
*Spring 2020 CHE 494/598* Nanobiotechnology Dr. Sheba Goklany 12 enrolled  
*Spring 2021 BDE 702* Biological Design II Dr. Kaushal Rege 10 enrolled  
*Spring 2021 CHE 494/598* Nanobiotechnology Dr. Kaushal Rege 29 enrolled  
*Spring 2022 CHE 494/598* Nanobiotechnology Dr. Kaushal Rege 26 enrolled

### 2012 Teaching Assistant

Arizona State University, Graduate College  
*Spring 2012 BDE 702* *Biological Design II* 8 enrolled  
*Fall 2012 BIO 610* *Responsible Conduct in Research* 21 enrolled

### 2011 – 12 Science Foundation Arizona Doctoral Teaching Fellow

Arizona State University and Kyrene School District, Tempe, AZ  
*2011-12 Year K-12* *ASU Citizen-Scientist Engineer Program*

### 2009 Teaching Assistant

Arizona State University, Barrett Honors College  
*Spring 2009 HON 272* *The Human Event* 20 enrolled

### 2008 Instructor

Arizona State University, Barrett Honors College  
*Summer 2008 K-12* *Barrett Summer Scholars*

## Mentoring History

# Honors Thesis Committee & Masters Thesis Committee

<u>Years</u>	<u>Mentee</u>	<u>Current Position/Location</u>
2010 – 12	Mr. Andrew Shabilla	Senior 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	Research Assistant, Mayo Clinic, Scottsdale, AZ
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, VA
2017 – 20	& Ms. Michelle Burgin, MS	Research Associate, Biocytogen, Wakefield, MA
2018 – 21	# Ms. Lauren Schutz	Medical Office Intern, Scottsdale, AZ
2019 – Present	Mr. Deepanjan Ghosh	PhD student, Biological Design
2020	Dr. Roxana Beladi, DO	Neurosurgery Resident, Michigan State University
2020	Dr. Kyle Varkoly, DO	Internal Medicine Resident, McLaren-Macomb, Michigan
2020 – Present	Ms. Antara Sira	Undergraduate Honors Student
2020 – Present	Ms. May Nguyen	Undergraduate Student
2020 – 2021	Ms. Jordan Roberts	Undergraduate Student – SOLUR Apprentice
2021 – Present	Ms. Jayda Hylton-Pelaia	MS student, Biology
2021 – Present	Mr. Michael Li	BS/MS student, Bioengineering

2021 – Present Mr. Shrey Rathore MS student, Bioengineering  
 2022 – Present Ms. Holly Gildar MS Student, Medical Nutrition

## Awards & Recognition

2022 Wound Healing Foundation 3M Fellowship  
 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

## Service

2021 – Present *Biological Design Graduate Program Graduate & Alumni Affairs Committee*, Member  
 2021 Faculty Judge, SW Biomaterials Day hosted by Arizona State University  
 2021 NIH ACTS Study Section, Early Career Reviewer member (June 22-23)  
 2021 – Present *Wound Healing Society* – Member, Communications Committee  
 Present Co-Chair, 10th Int'l. Symposium on SERPINS & Proteases in Health & Disease, Sedona, AZ (Scheduled for Fall 2022)  
 2021 Planner and Workshop Instructor, 2021 AIMS Annual Meeting, Arizona Imaging and Microanalysis Society (Deferred to 2021)  
 2020 – Present *Pharmaceutics* – journal Editorial Board member as Topic Editor  
 2020 – Present *Vaccines* – journal Reviewer Board member  
 2020 Invited Speaker, Smile on Seniors of Arizona  
 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

## Ad hoc Peer Reviewer 25 journals

- <i>Cell Death and Disease</i>	- <i>International Journal of Molecular Sciences</i>	- <i>Cells</i>
- <i>Cellular Physiology &amp; Biochemistry</i>	- <i>Frontiers in Cardiovascular Medicine</i>	- <i>Pharmaceuticals</i>
- <i>Histology and Histopathology</i>	- <i>Bioengineered</i>	- <i>Vaccines</i>
- <i>Genes</i>	- <i>Antibiotics</i>	- <i>Pharmaceutics</i>
- <i>PLoS ONE</i>	- <i>FASEB Journal</i>	- <i>Medical Sciences</i>
- <i>Cell Biology and Toxicology</i>	- <i>Cancer Management and Research</i>	- <i>Bioengineering and Translational Medicine</i>
- <i>Pancreatology</i>	- <i>Diagnostics</i>	- <i>Applied Sciences</i>
	- <i>Biomedicines</i>	- <i>Molecules</i>
	- <i>Tissue and Cell</i>	- <i>Journal of Clinical Medicine</i>

## Professional Societies

<b>American Society for Cell Biology</b>	<i>Member, ASU Ambassador</i>
<b>Arizona Imaging and Microanalysis Society</b>	<i>Board Member (Incoming Vice President 2021)</i>
<b>Microscopy Society of America</b>	<i>Member</i>
<b>Society for Leukocyte Biology</b>	<i>Member</i>
<b>Wound Healing Society</b>	<i>Member, Communications Committee Member</i>

## Grant Support

### **Active**    **Inflammasome-modulating Polymeric Biomaterials to Augment Tissue Repair**

Identifier:            *1K01EB031984* (K01 mechanism)  
Role:                 Principal Investigator  
Sponsor:             National Institute of Biomedical Imaging and Bioengineering (NIBIB)  
Project period:      09/10/2021 to 06/30/2024  
Total direct costs:   \$308,954.00

### **Active**    **Regulation of Wound Healing by an Epidermal Serpin**

Identifier:            ASU Internal FP00027730 (Society Award)  
Role:                 Principal Investigator  
Sponsor:             Wound Healing Foundation  
Project period:      07/01/2022 to 06/30/2023  
Total direct costs:   \$15,000.00

### **Pending**    **Fundamental Studies on Structure and Function of an Epidermal Serpin**

Identifier:            ASU Internal FP00032395 (R01 mechanism)  
Role:                 Principal Investigator  
Sponsor:             National Institute of Arthritis and Musculoskeletal and Skin Diseases  
Project period:      09/01/2022 to 08/31/2026  
Total direct costs:   \$1,529,363.00

### **Pending**    **Tattoos for Endoscopic Imaging**

Identifier:            ASU Internal FP00031701 (Society Award)  
Role:                 Co-Investigator  
Sponsor:             Flinn Foundation  
Project period:      04/01/2022 to 09/30/2023  
Total direct costs:   \$100,000.00

## Patents (11 total; 8 filed, 3 issued)

### **Issued**    **Aliquot Tray** (*3 patents*)

2015-06-16        USD732187    (cited as prior art in 31 patents)  
2019-01-08        USD838004    (cited as prior art in 4 patents)  
2019-02-26        USD84183     (cited as prior art in 4 patents)

### **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 – Serpass Biologics*  
2020-10-30        PCT Nationalized

### **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 – Serpass Biologics*  
2021-06-28        PCT Nationalized

### **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  
 2020-04-20      *Exclusive Option – Serpass Biologics*  
 2021-04-26      PCT Application No. PCT/US21/29235
- Filed**      **Formulation for Wound Healing**  
 2020-10-15      US Application No. 63/092,330  
 2020-04-10      *Exclusive Option – Serpass Biologics*
- Filed**      **Composite Ink Formulations for Endoscopic Imaging**  
 2021-10-11      US Application No. 63/254,523
- Filed**      **Formulation for Wound Healing**  
 2022-03-10      US Application No. 63/318,722
- Filed**      **PEGylated Serp-1 Protein Treatment Improves Outcomes After SARS-CoV-2 Infection**  
 2022-03-11      US Application No. 63/319,217

## Publications (32 total)

- 2022**    Varkoly K, Tan S, Beladi R, Fonseca D, Zanetti IR, Kraberger S, Shah C, **Yaron JR**, Zhang L, Juby L, Fath AR, Ambadapadi S, House M, Maranian P, Pepine C, Varsani A, Moreb J, Schutlz-Cherry S, Lucas AR (2022). [RNA Virus Gene Signatures Detected in Patients with Cardiomyopathy after Chemotherapy](#). *Frontiers in Cardiovascular Medicine*. 9, 821162
- 2021**    Ju B, Guo Q, Benissan-Messan DZ, Shawver MH, Chen P, Geng B, Wei S, **Yaron JR**, Lucas AR, Hua Z (2021). [Serp-1 Promotes Corneal Wound Healing by Facilitating Re-epithelialization and Inhibiting Fibrosis and Angiogenesis](#). *Frontiers in Cardiovascular Medicine*. 8, 649124
- Yaron JR**, Zhang L, Guo Q, Haydel SE, Lucas AR (2021). [Fibrinolytic Serine Proteases, Therapeutic Serpins and Inflammation: Fire Dancers and Firestorms](#). *Frontiers in Cardiovascular Medicine*. 8, 648947
- Beladi RN<sup>†</sup>, Varkoly KS<sup>†</sup>, Schutz L<sup>†</sup>, Zhang L, **Yaron JR**, Guo Q, Burgin M, Hogue I, Tierney W, Dabrowski W, Lucas AR (2021). [Serine Proteases and Chemokines in Neurotrauma; New Targets for Immune Modulating Therapeutics in Spinal Cord Injury](#). *Current Neuropharmacology*. **In Press**. (†Equal Contributions)
- Guo Q, **Yaron JR**, Wallen III JW, Browder KF, Boyd R, Olson TL, Burgin M, Ulrich P, Aliskevich E, Schutz LN, Fromme P, Zhang L, Lucas A (2021). [PEGylated Serp-1 Markedly Reduces Pristane-Induced Experimental Diffuse Alveolar Hemorrhage, Altering uPAR Distribution, and Macrophage Invasion](#). *Frontiers in Cardiovascular Medicine*. 8, 633212
- 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 (2021). [Adipose saturation reduces lipotoxic systemic inflammation and explains the obesity paradox](#). *Science Advances*. 7(5) eabd6449
- 2020**    **Yaron JR**<sup>†</sup>, Zhang L<sup>†</sup>, Guo Q, Awo EA, Burgin M, Schutz LN, Zhang N, Kilbourne J, Daggett-Vondras J, Lowe KM, Lucas AR (2020). [Recombinant Myxoma virus-derived immune modulator M-T7 accelerates cutaneous wound healing and improves tissue remodeling](#). *Pharmaceutics*. 12(11), 1003. (†Equal Contributions)
- Fath AR, Aglan A, Platt J, **Yaron JR**, Varkoly KS, Beladi R, Gorgas D, Jean JT, Dasni P, Eldaly AS, Jupy M, Lucas AR (2020). [Chronological Impact of Earthquakes on Blood Pressure: A Literature Review and Retrospective Study of Hypertension in Haiti before and after the 2010 Earthquake](#). *Frontiers in Public Health*. 8, 600157
- Yaron JR**<sup>†</sup>, Zhang L<sup>†</sup>, 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, Siwicki-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 Astroglial Formation of the Syrxin in Spinal Cord Injury](#). *Current Neuropharmacology*. 19(2), 972.

Ghosh D, Godeshala S, Nitiyanandan 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<sup>†</sup>, Zhang L<sup>†</sup>, **Yaron JR**<sup>†</sup>, 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**<sup>†</sup>, Zhang L<sup>†</sup>, Guo Q, Burgin M, Schutz L, Awo E, Wise L, Krause KL, Idefonso 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**<sup>†</sup>, Ambadapadi S<sup>†</sup>, 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<sup>†</sup>, **Yaron JR**<sup>†</sup>, 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**<sup>†</sup>, Chen H<sup>†</sup>, Ambadapadi S<sup>†</sup>, 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**<sup>†</sup>, Kwiecien JM<sup>†</sup>, Zhang L<sup>†</sup>, 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 \(IFN \$\gamma\$ R<sup>-/-</sup>\) 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<sup>†</sup>, Ambadapadi S<sup>†</sup>, **Yaron JR**<sup>†</sup>, 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, Kwecien 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<sup>+</sup> regulates Ca<sup>2+</sup> 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<sup>+</sup> 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 (21 total)

**2021** **Yaron JR** (2021). [Quantitative FFPE Histopathology of Wound Healing in Mice using Special Stains](#). *Microscopy & Microanalysis*. 27(S1), 3452-3454

**2020** Burgin M, **Yaron JR**, Zhang L, Lucas AR (2020). [Pre-treatment of Allografts to Modify Chemokine:Glycosaminoglycan Pathways Reduces Transplant Rejection](#). *Arteriosclerosis, Thrombosis, and Vascular Biology*. 40 (Suppl\_1), A516

**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<sub>supplement</sub>), 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

Kwecien J, Kwecien-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

Kwecien J, Dabrowska-Bouta D, Marzec-Kotarska B, Oakden W, **Yaron J**, Kwecien-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 Ca<sup>2+</sup> 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 Ca<sup>2+</sup> 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 (12 total)

**2020** **Yaron JR**, Zhang L, Guo Q, Chen H, Lucas AR (2020). [A Mouse Model of Acute Liver Injury by Warm, Partial Ischemia-Reperfusion for Testing the Efficacy of Virus-Derived Therapeutics.](#) *Viruses as Therapeutics: Methods and Protocols (Methods in Molecular Biology)*. SpringerNature/Humana Press, Vol. 2225. ISBN: 978-1-0716-1011-4, pp. 275-292

**Yaron JR**, Zhang L, Burgin M, Schutz LN, Awo EA, Keinan S, McFadden G, Ampadapadi S, Guo Q, Chen H, Lucas AR (2020). [Deriving Immune-Modulating peptides from Viral Serine Protease Inhibitors \(Serpins\).](#) *Viruses as Therapeutics: Methods and Protocols (Methods in Molecular Biology)*. SpringerNature/Humana Press, Vol. 2225. ISBN: 978-1-0716-1011-4, pp. 107-123

Zhang L, **Yaron JR**, Guo Q, Kilbourne J, Awo EA, Burgin M, Schutz LN, Wallace SE, Lowe KM, Lucas AR (2020). [Topical Application of Virus-Derived Immunomodulating Proteins and Peptides to Promote Wound Healing in Mouse Models.](#) *Viruses as Therapeutics: Methods and Protocols (Methods in Molecular Biology)*. SpringerNature/Humana Press, Vol. 2225. ISBN: 978-1-0716-1011-4, pp. 217-226

Guo Q, Zhang L, **Yaron JR**, Burgin M, Schutz LN, Awo EA, Lucas AR (2020). [Preclinical Testing of Viral Therapeutic Efficacy in Pristane-Induced Lupus Nephritis and Diffuse Alveolar Hemorrhage Mouse Models.](#) *Viruses as Therapeutics: Methods and Protocols (Methods in Molecular Biology)*. SpringerNature/Humana Press, Vol. 2225. ISBN: 978-1-0716-1011-4, pp. 241-255

Kwiecien JM, **Yaron JR**, Delaney KH, Lucas AR (2020). [Neurologic and Histologic Tests Used to Measure Neuroprotective Effectiveness of Virus-Derived Immune-Modulating Proteins.](#) *Viruses as Therapeutics: Methods and Protocols (Methods in Molecular Biology)*. SpringerNature/Humana Press, Vol. 2225. ISBN: 978-1-0716-1011-4, pp. 227-239



Burgin M, **Yaron JR**, Zhang L, Guo Q, Daggett J, Kilbourne J, Lowe KM, Lucas AR (2020). [Kidney Subcapsular Allograft Transplants as a Model to Test Virus-Derived Chemokine-Modulating Proteins as Therapeutics. \*Viruses as Therapeutics: Methods and Protocols \(Methods in Molecular Biology\)\*. SpringerNature/Humana Press, Vol. 2225. ISBN: 978-1-0716-1011-4, pp. 257-273](#)

**2018 Yaron JR**, 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 JR**, 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 JR**, 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 JR**, 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 JR**, 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 JR**, 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 (20 total)

- 2021 Sep 24** *Invited* – School for Biological and Health Systems Engineering Seminar Series, Tempe, AZ, USA  
**2021 Aug 3** *Invited* – Microscopy & Microanalysis, Annual Meeting, Virtual  
**2021 Mar 18** ImageJ Technical Workshop, Arizona Imaging & Microanalysis Society Meeting, Tempe, AZ, USA  
**2020 Mar 20** *Invited* – Arizona State University Biotechnology Advisory Board, Tempe, AZ, USA  
**2019 Sep 21** 9<sup>th</sup> International Symposium on SERPINS and Proteases in Health and Disease (SERPINS 2019), Seville, Spain  
**2019 Sep 13** *Invited* – 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** 87<sup>th</sup> 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** 2<sup>nd</sup> 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** 8<sup>th</sup> International Symposium on SERPINS and Proteases in Health and Disease, Shanghai, China  
**2014 Dec 8** American Society for Cell Biology Meeting, Philadelphia, PA, USA

## Media Coverage

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- 2022 Mar 10/ ***When time doesn't heal all wounds***  
2022 Mar 14 <https://news.asu.edu/20220314-when-time-doesnt-heal-all-wounds>  
<https://fullcircle.asu.edu/features/when-time-doesnt-heal-all-wounds/>
- 2021 Aug 3 ***Master of the immune system: Myxoma virus could solve long-standing medical conundrums***  
<https://biodesign.asu.edu/news/master-immune-system-myxoma-virus-could-solve-long-standing-medical-conundrums>