

# Lihui (Sally) Yuan, PharmD. Ph.D

## Contact information:

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College of Pharmacy  
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## Education:

### Pharm. D.

College of Pharmacy, University of Florida

### Ph.D

Molecular Genetics and Microbiology  
Department of Oral Biology  
University of Florida

### Master of Agronomy

Department of Horticulture  
China Agricultural University, Beijing, China

### Bachelor of Agronomy

Department of Horticulture  
Beijing Agricultural University, Beijing, China

**Ph.D Dissertation:** Quorum Sensing Regulated Gene Expression in *Porphyromonas gingivalis*

## Positions, Memberships and Honors

### Positions:

- |               |   |
|---------------|---|
| 2016-current: | Clinical Lecturer, Department of Pharmacodynamics, College of Pharmacy, University of Florida, Gainesville, Florida                   |
| 2011-2016:    | Senior Biological Scientist, Department of Pathology, immunology and Laboratory Medicine, University of Florida, Gainesville, Florida |
| 2009-2011:    | Postdoc associate, Department of Pathology, immunology and Laboratory Medicine, University of Florida, Gainesville, Florida,          |
| 2005-2008:    | Postdoctoral Associate, Department of Physiology and Functional Genomics, University of Florida, Gainesville, Florida, USA            |
| 2000-2005:    | Alumni Fellow of University of Florida, Department of Oral Biology, University of Florida, Gainesville, Florida                       |

## Lihui (Sally) Yuan, PharmD. Ph.D

1999-2000: Research Assistant, Interdisciplinary Program in Biomedical Sciences, University of Florida, Gainesville, Florida  
1998-1999: Research Assistant, Department of Horticulture, University of Florida, Lake Alfred, Florida

### **Memberships:**

2017-2019: American Association of College of Pharmacy  
2016-2017: American Society of Consultant Pharmacists  
2014: Rho chi, National Honor Society  
2013: American Association of Consultant Pharmacy

### **Honors:**

2018/2019: Nominated for Outstanding Teaching team award, PHA5561, Pathophysiology and Patient Assessment 2, served as coordinator and instructor, College of Pharmacy, University of Florida.

2018/2019: Nominated as Outstanding Teaching Team Award PHA5787C Patient care V, Endocrinology and Women's and Men's health, served as instructor, College of Pharmacy, University of Florida.

2017/2018: Finalist for Teacher of the Year Award for 2017, College of Pharmacy, University of Florida

2017: Nominated for Outstanding Teaching team award in PHA5560, Pathophysiology and Patient Assessment 1, served as coordinator, College of Pharmacy, University of Florida.

2000-2005: University of Florida Alumni Fellowship

1998-1999: Graduate Research Assistantship in Department of Horticulture, University of Florida

### **Licensure:**

2016-current Licensed Pharmacist in Florida

### **Certificate:**

Teaching certificate from College of Pharmacy, University of Florida, 2017

### **Teaching trainings and workshops:**

- Interface: Learning beyond Four Walls. UF 2019
- Passport to great teaching: Adobe tools workshop for improving students' engagement: Sep 2018, Office of Faculty, Development and Teaching Excellence of University of Florida

## Lihui (Sally) Yuan, PharmD. Ph.D

- Situational Judgement Test (SJT) 2 day writing and critique workshop: Writing and Criticizing SJT scenarios for professionalism. College of Pharmacy, UF, Spring 2018
- Workshop on how to become a good educator? Mayo clinic 2017

### Peer-reviewed Publications:

**1:** Xia CQ, Peng R, Chernatynskaya AV, **Yuan L**, Carter C, Valentine J, Sobel E, Atkinson MA, Clare-Salzler MJ. Increased IFN- $\alpha$ -producing plasmacytoid dendritic cells (pDCs) in human Th1-mediated type 1 diabetes: pDCs augment Th1 responses through IFN- $\alpha$  production. *J Immunol.* 2014 Aug 1;193(3):1024-34.

**2:** Xia CQ, Zhang P, Li S, **Yuan L**, Xia T, Xie C, Clare-Salzler MJ. C-Abl inhibitor imatinib enhances insulin production by  $\beta$  cells: c-Abl negatively regulates insulin production via interfering with the expression of NKx2.2 and GLUT-2. *PLoS One.* 2014 May 16;9(5):

**3:** Verma A, Shan Z, Lei B, **Yuan L**, Liu X, Nakagawa T, Grant MB, Lewin AS, Hauswirth WW, Raizada MK, Li Q. ACE2 and Ang-(1-7) confer protection against development of diabetic retinopathy. *Mol Ther.* 2012 Jan;20(1):28-36.

**4:** Yamazato M, Ferreira AJ, Yamazato Y, Diez-Freire C, **Yuan L**, Gillies R, Raizada MK. Gene transfer of angiotensin-converting enzyme 2 in the nucleus tractus solitarius improves baroreceptor heart rate reflex in spontaneously hypertensive rats. *J Renin Angiotensin Aldosterone Syst.* 2011 Dec;12(4):456-61.

**5:** Yamazato Y, Ferreira AJ, Hong KH, Sriramula S, Francis J, Yamazato M, **Yuan L**, Bradford CN, Shenoy V, Oh SP, Katovich MJ, Raizada MK. Prevention of pulmonary hypertension by Angiotensin-converting enzyme 2 gene transfer. *Hypertension.* 2009 Aug;54(2):365-71.

**6:** Ferreira AJ, Shenoy V, Yamazato Y, Sriramula S, Francis J, **Yuan L**, Castellano RK, Ostrov DA, Oh SP, Katovich MJ, Raizada MK. Evidence for angiotensin-converting enzyme 2 as a therapeutic target for the prevention of pulmonary hypertension. *Am J Respir Crit Care Med.* 2009 Jun 1;179(11):1048-54.

**7:** **Yuan L**, Rodrigues PH, Bélanger M, Dunn WA Jr, Progulsk-Fox A. *Porphyromonas gingivalis* htrA is involved in cellular invasion and in vivo survival. *Microbiology.* 2008 Apr;154(Pt 4):1161-9.

**8:** Der Sarkissian S, Grobe JL, **Yuan L**, Narielwala DR, Walter GA, Katovich MJ, Raizada MK. Cardiac overexpression of angiotensin converting enzyme 2 protects the heart from ischemia-induced pathophysiology. *Hypertension.* 2008 Mar;51(3):712-8.

**9:** **Yuan L**, Rodrigues PH, Bélanger M, Dunn W Jr, Progulsk-Fox A. The *Porphyromonas gingivalis* clpB gene is involved in cellular invasion in vitro and virulence in vivo. *FEMS Immunol Med Microbiol.* 2007 Nov;51(2):388-98.

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**10:** Díez-Freire C, Vázquez J, Correa de Adjoulian MF, Ferrari MF, **Yuan L**, Silver X, Torres R, Raizada MK. ACE2 gene transfer attenuates hypertension-linked pathophysiological changes in the SHR. *Physiol Genomics*. 2006 Oct 3;27(1):12-9.

**11:** **Yuan L**, Hillman JD, Progulske-Fox A. Microarray analysis of quorum-sensing-regulated genes in *Porphyromonas gingivalis*. *Infect Immun*. 2005 Jul;73(7):4146-54.

### Poster Presentations at Scientific Conferences:

**1:** S. Arivazhagan, **L. Yuan**, R.H. Khan, C. Alvarez, M.J. Clare-Salzler. Genetic Regulation of elevated heightened Interferon- $\alpha/\beta$  responses in NOD mice Abstract for Poster Presentation. University of Florida, College of Medicine, Research Day, Gainesville, Florida, March 2014

**2:** **Lihui Yuan**, Shuyao Zhang, Clayton Mathews, Michael Clare-Salzler, Type I Interferon and Virus Involvements in Type I Diabetes, University of Florida, College of Medicine, Research Day, Gainesville, Florida, March 2014

**3:** S. Arivazhagan, **L. Yuan**, R.H. Khan, R.Peng, M.J. Clare-Salzler. Genetic Regulation of elevated heightened Interferon- $\alpha/\beta$  responses by Chromosome 1 loci in NOD mice Abstract for Poster Presentation. Experimental Pathology Post-Doctoral Meeting, University of Florida, October 2013.

**4:** S. Arivazhagan, **L. Yuan**, R.H. Khan, R.Peng, M.J. Clare-Salzler. Genetic Regulation of elevated heightened Interferon- $\alpha/\beta$  responses by Chromosome 1 loci in NOD mice Abstract for Poster Presentation. Federation of Clinical Immunological Societies, Boston, Massachusetts, June 2013.

**5:** S. Arivazhagan, **L. Yuan**, R.H. Khan, R.Peng, M.J. Clare-Salzler. Genetic Regulation of elevated heightened Interferon- $\alpha/\beta$  responses by Chromosome 1 loci in NOD mice Abstract for Poster Presentation. University of Florida, College of Medicine, Research Day, Gainesville, Florida, March 2013.

**6:** S. Arivazhagan, **L. Yuan**, R.H. Khan, R.Peng, M.J. Clare-Salzler. Chromosome 1 loci regulate the heightened Interferon- $\alpha/\beta$  responses in NOD mice. Abstract for Poster Presentation. 12th International Conference on Immunology of Diabetes Society, Victoria, B.C, Canada, June 2012.

**7:** S. Arivazhagan, **L. Yuan**, R.H. Khan, R.Peng, M.J. Clare-Salzler. Heightened Interferon- $\alpha/\beta$  responses are regulated by Chromosome 1 of NOD mice. Abstract for Poster Presentation. University of Florida, College of Medicine, Research Day, Gainesville, Florida, March 2012.

**8:** Anderson J Ferreira, Vinayak Shenoy, **Lihui Yuan**, Michael Katovich, Timothy Reudelhuber Mohan K Raizada. XNT, An ACE2 activator, prevents monocrotaline induced pulmonary hypertension. 62nd High Blood pressure Research Conference 2008 Annual meeting, Atlanta, GA, Sep 17-20, 2008

**9:** M Yamazato, C Díez-Freire, Y, Yamazato, **L Yuan**, A Ferreira, Mohan Raizada. Overexpression of ACE2 in the Nucleus Tractus Solitarius Improves Baroreflex Function in the Spontaneously Hypertensive Rat, International Society of Hypertension. Berlin, Germany, June

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14-19.

**10: Lihui Yuan**, Xia Li, Judith Sved, Alan Sved, Li Liu, Mohan Raizada. Network of Paraventricular Nucleus Gene Expression in Angiotensin-salt Hypertension. Experimental Biology 2008 Annual meeting, San Diego, CA, April, 2008

**11: Lihui Yuan**, Xia Li, Judith Sved, Alan Sved, Mohan Raizada, Li Liu. Gene Expression Networks in Rostral Ventrolateral Medulla (RVLM) of Rats with Angiotensin-Salt Hypertension. Experimental Biology 2008 Annual meeting, San Diego, CA, April, 2008

**12: Lihui Yuan**, Xia Li, Judith C. Sved, Alan F. Sved, Mohan K Raizada Identification of Hypertension Associated Genes in the Rostral Ventrolateral Medulla of a Neurogenic Rat Model of Hypertension, Endocrine meeting, 2007, Toronto, June 2-5.

**13: Q. Li, R. Miller, J. Oang, A. Dinculescu, Z. Shan, L.Yuan, A. Lewin, W. Hauswirth, M. Raizada.** Prevention of Choroidal neovascularization by AAV-mediated P22phox siRNA delivery in a murine model.

**14: J.L. Grobe<sup>1</sup>, S. Der Sarkissian, Y. Lihui, J.M. Stewart<sup>1</sup>, M.K. Raizada, and M.J. Katovich** ACE2 Overexpression Inhibits Hypoxia-Induced Collagen Production by Cardiac Fibroblasts 60th Annual Fall Conference and Scientific Sessions of the Council for High Blood Pressure Research in association with the Council on the Kidney in Cardiovascular Disease, San Antonio, TX, Oct 4-7, 2006

**15: Lihui Yuan** and Ann Progulske-Fox. Analysis of an htrA Mutant in *Porphyromonas gingivalis*, 105<sup>th</sup> American Society for Microbiology, Atlanta, GA, June 2005

**16: Lihui Yuan** and Ann Progulske-Fox. Functional Analysis of a LuxS Regulated Protein, 83rd General Session & Exhibition of the IADR (International Association of Dental Research), Baltimore, MD, March 2005

**17: Lihui Yuan** and Ann Progulske-Fox. Identification and Characterization of ClpB and HtrA Mutants of *Porphyromonas. gingivalis*, 104<sup>th</sup> American Society for Microbiology, New Orleans, LA, May 2004

**18: Lihui Yuan** and Ann Fox-Fox. RT-PCR Confirmation of Quorum Sensing Regulated Genes in *Porphyromonas gingivalis* 82<sup>nd</sup> General Session & Exhibition of the IADR (International Association of Dental Research), Honolulu, Hawaii, March 2004

**19: Lihui Yuan** and Ann Progulske-Fox. Quorum Sensing Regulated Gene Expression in *Porphyromonas gingivalis* 103<sup>rd</sup> American Society for Microbiology, Washington DC, May 2003

**20: Lihui Yuan** and Ann Progulske-Fox. Detection of Quorum Sensing Molecules from Periodontal Pathogens 102<sup>nd</sup> American Society for Microbiology, Salt Lake City, UT, May 2002

### Teaching Experiences:

- 2018-present: Course leader for PHA5561 Pathophysiology and Patient Assessment II

## Lihui (Sally) Yuan, PharmD. Ph.D

- 2017-present: Course leader for PHA5560 Pathophysiology and Patient Assessment I
- 2017-present: Teaching partner in PHA5787C: Patient Care 5
- 2016-present: Lab instructor in PHA5161L and PHA5162L: Professional Practice Skills Laboratory I and II
- Discussion leader for GMS 6471: Fundamentals of Physiology & Functional Genomics, Spring 2007 and 2008
- Advisor for assigned PharmD students
- Supervised Pre-dental students for research projects in the lab
- Supervised UF IDP (Ph.D program) students for lab rotations, including experimental design, technical assistance, trouble shooting and oral presentations.
- Supervised pre-medical students:
  - Girogio Negron (enrolled in Medical School of University of Florida)
  - Shuyao Zhang (enrolled in Medical School of university of Florida)
- Supervised Ph.D students:
  - Sindhu. Arivazhagan (graduated 2015 from University of Florida)