Rekha R. Srinivasan

Instructor, Department of Chemistry
10900, Euclid Avenue
Cleveland, OH 44106

Phone: (216) 368-3741
Email: rekha.srinivasan@case.edu Date: 10/11/2014

EDUCATION

Case Western Reserve University, Cleveland, OH
Ph.D. in Chemistry, May 2003
Dissertation: "*Biophysical studies of ABri peptide associated with Familial British Dementia"*

Loyola College, Madras, INDIA
M.Phil. in Chemistry, August 1996
Thesis: "*Antibacterial activity of Oldenlandia Umbellata Linn."*

St. Joseph's College, Bangalore, INDIA
M. Sc. in Analytical Chemistry, August 1994

The Bangalore University, Bangalore, India
B.Sc. in Chemistry, Physics and Mathematics, August 1992

RESEARCH

Case Western Reserve University, Cleveland, OH 10/03 – 05/05
Department of Biomedical Engineering
Post-doctoral Research Associate: Center for Cardio-Vascular Biomaterials

Case Western Reserve University, Cleveland, OH 08/99 – 09/03
Department of Chemistry
Research Assistant

Loyola College, Madras, India 07/04 – 08/05
Department of Chemistry
Research Fellow: M.Phil. Research: Anna Institute of Indigenous medicines

TEACHING

Case Western Reserve University, Cleveland, OH 06/09-current
Instructor: Department of chemistry

- Organic chemistry laboratory course at sophomore level with approximately 280 students per semester: redesigned the course and created videos for all the experiments to enhance student learning and participation during class
- Organic chemistry lecture course at sophomore level with approximately 360 students per semester
- Redesigned the Chemistry for Engineers laboratory course with 40 students per semester
- Designed a new SAGES First Seminar course on Chemistry of Spices

Case Western Reserve University, Cleveland, OH 06/05-05/09
Lecturer: Department of chemistry

- Organic chemistry lab course at sophomore level with approximately 280-320 students

Case Western Reserve University, Cleveland, OH 06/04-07/04
School of Medicine
Instructor: Summer medical education program, Health Career Enhancement Program for minorities

- Designed an Organic Chemistry course to suit a class of approximately one hundred students with mixed competency in organic chemistry.

Case Western Reserve University, Cleveland, OH 08/98-07/99
Teaching Assistant, **Department of Chemistry**

- Team taught introductory and advanced Organic Chemistry lab courses with with 30-40 students
- Graded and evaluated student performances in Organic Chemistry lecture classes with approximately 300 students

NMKRV College for Women, Bangalore, India 07/96-04/98
Lecturer, **Department of Chemistry**

- Taught Analytical Chemistry lecture courses for graduate students
- Supervised Analytical Chemistry lab courses for graduate students
- Taught Organic Chemistry lecture courses to 1st year and 3rd year undergraduate students
- Supervised Organic Chemistry and Inorganic Chemistry lab courses for undergraduate students

PROFESSIONAL MEMBERSHIPS

- American Chemical Society

AWARDS

WISER Faculty advisor of the year award, Case Western Reserve University, 2014 and 2015

Greek Life Outstanding faculty advisor award, Case Western Reserve University, 2012-2013

Roc for Doc Outstanding faculty award, Case Western Reserve University, 2013

John C. Wood Outstanding faculty award, Case Western Reserve University, 2013

Carl F. Wittke award for excellence in undergraduate education, Case Western Reserve University, 2010

Nominated for Carl F. Wittke award for Excellence in Undergraduate Teaching, Case Western Reserve University 2008-2010, 2012-2015

PPG merit award for outstanding graduate work by Department of chemistry, Case Western Reserve University, 2003

Proficiency and Gold Medal Award by Loyola College, 1995

Merit Award in Chemistry by National College, 1993

PUBLICATIONS

Srinivasan, R.,** Marchant R., Sengupta, A., In-vitro and In-vivo targeting by cyclic-RGD modified liposomes, *J. Biomed. Mat. Res. Part A,** (2010) **93A(3)***,* pp. 1004 - 1015.

*Huang, G., Zhou, Z., **Srinivasan**, **R**., Penn, M., Kottke-Marchant, K., Marchant, R., Sengupta, A., Affinity manipulation of surface-conjugated RGD peptide to modulate binding of liposomes to activated platelets. *Biomaterials*. (2008) **29(11**), 1676-1685

Srinivasan, R, Srinivasan, V., Vasanth, S., Gopal, H., The *in vitro* antibacterial activity of *Hedyotis Umbellata, Indian J. of Pharm. Sci.,* (2006) **68(2),** 236-238.

***Srinivasan, R.,** Marchant, R., Zagorski, M., ABri Peptide Associated with Familial British Dementia forms Pore-like Protofibrillar Structure, *Amyloid: J. Protein Folding Disord.,* (2004) **11,** 10-13

Srinivasan, **R.,** Jones, E., Ghiso, J., Marchant, R., Zagorski, M., pH Dependent Amyloid and Protofibrillar Formation of ABri Peptide Associated with Familial British Dementia, *J. Mol. Biol*., (2003) **333,** 1003-1023.

ABSTRACTS and CONFERENCE PRESENTATIONS

Srinivasan, R., and Meyer, D., Student derived experimental procedures in a flipped lab experience, *248th American Chemical Society National Meeting, August 2014.*

Srinivasan, R., Spicy journey into the world of chemistry for SAGES, *248th American Chemical Society National Meeting, August 2014.*

Srinivasan, R., and Jhangiani N, Treating Cancer with curcumin: The Past, Present, and Future, *Midwestern Symposium on Undergraduate Research, October 2014.*

Sen gupta, A., Huang, G., **Srinivasan, R.,** Marchant. R., Novel approaches to Intra-vascular Drug Delivery: RGD-modified liposomes targeted to platelets, *Biomedical Engineering Society National Meeting, October 2004.*

Apetri, M., **Srinivasan, R.,** Maiti, N., Anderson, V., Zagorski M., Production of native protofibril structures from aggregation of alpha-synuclein from methanol-water solutions, *Americal Chemical Soceity National Meeting, September 2003.*

Srinivasan, **R.,** Jones, E., Ghiso, J., Marchant, R., Zagorski, M., pH Dependent Amyloid Formation by the ABri Peptide Associated with Familial British Dementia, *Federation of Americal Societies for Experimental Biology Summer Research Conference, June 2002*.

GRANTS, FELLOWSHIPS and WORKSHOPS

Nord Grant for Active Learning in Organic Chemistry, Case Western Reserve University, 2014.

Active Learning in Organic Chemistry, Chemistry, Collaboration, Workshops and communities of scholars workshop, National Science Foundation, 2014.

University Center for Innovation in Teaching and Education learning fellow, Case Western Reserve University, 2009.

PROFESSIONAL SERVICES

Session organizer and Chair: The Health benefits of natural products in spices: The Past, Present and Future, American Chemical Society, Great Lakes and Central Regional meeting, Grand Rapids, MI, May 2015.

Content contributor including laboratory videos: www.organicers.org, Chemistry, Collaboration, Workshops and communities of scholars' educational resources, National Science Foundation, 2014

Panelist: Women in Science, Indian Institute of Technology, Gandhi Nagar, India, 2012

Established 'SEVA' an international outreach program through WISER involving undergraduate women students in STEMM at Case Western Reserve University to support girls' education in India, 2012

INSTITUTIONAL AND DEPARTMENTAL SERVICES

CAS strategic planning: Member of teaching and learning task force, 2013-2014

CAS Committee on Educational Programs, 2013-2014; **Co-chair** 2013-2014

Undergraduate Recruiting Committee, Department of Chemistry, **Chair** 2008-2014

Undergraduate Affairs Committee, Department of Chemistry, 2008-2014

Panelist, Women in Science and Engineering Roundtable's Women in STEMM Panel 2014.

Educational Support Services advisory council board member, 2014

Panelist, Discussion on Videocentric Learning with Mediavision courseware, Information and Technological Services, 2009

Departmental search committees for new Lecturer and Instructor hires, 2009-2014

MENTORING and ADVISING

Faculty Mentor for Women in Science and Engineering Roundtable

Faculty Mentor for Delta Tau Delta Fraternity

Major advisor for 27 Chemistry majors, 2010-2014

First-year Advisor for a total of 51 incoming SAGES students, 2011-2014

Mentored three Lecturers and an Instructor in the Department of Chemistry