

## Dr. Jwala Renukuntla, PhD

*Assistant Professor of Pharmaceutics, Pharmaceutical Sciences*

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### EDUCATION

#### **Ph.D., Pharmaceutical Sciences (2011)**

University of Missouri Kansas City (UMKC), Kansas City, MO, USA

Major discipline: Pharmaceutical Sciences, Co-discipline: Chemistry

#### **Bachelor of Pharmacy (2005)**

Dr. M.G.R. Medical University, Chennai, India

### WORK EXPERIENCE

**Assistant Professor**, Dept. of Pharmaceutical Sciences, University of Texas El Paso School of Pharmacy, El Paso, TX, USA - August 2016 - Present

**Assistant Professor**, Dept. of Pharmaceutical Sciences, South College School of Pharmacy, Knoxville, TN, USA – January 2012 - July 2016

**Graduate Research Assistant**, Dept. of Pharmaceutical Sciences, School of Pharmacy, University of Missouri Kansas City (UMKC), Kansas City, MO, USA – Jan 2007 – December 2011

**Graduate Teaching Assistant**, Dept. of Pharmaceutical Sciences, School of Pharmacy, University of Missouri Kansas City (UMKC), Kansas City, MO, USA – Jan 2007 – December 2011

**Analytical Chemist**, Auctus Pharma Limited, Hyderabad, India - August 2005 – June 2006)

### HONORS, AWARDS & APPRECIATIONS

- ❖ Bravo Award, South College School of Pharmacy, 2016
- ❖ Distinguished Achievement commendation by South College, 2013
- ❖ UMKC GAF Women's Excellence Award, 2011
- ❖ UMKC-Chancellors Award, 2010
- ❖ Amgen Travel Award, AAPS, Los Angeles, CA, 2009
- ❖ UMKC-Outstanding Leadership Award from School of Graduate Studies, 2008
- ❖ Recipient of Gold Medal, JSS College of Pharmacy, Ooty, India, 2002

## RESEARCH

### Research Grants/Funding

#### I. Awarded Grants in 2017

- 1) *Development of Transdermal Nano formulations of Fluosterone. Role: PI (External Grant)*  
Awarding Agency: Sterotherapeutic Inc., 226821180A.  
Fund: \$15,000 (December 14, 2017 - May 31, 2018)
- 2) *Development of Transdermal Nano formulations of Nicotine loaded solid lipid nanoparticles. Role: PI (Internal Grant)*  
Awarding agency: Paso Del Norte Health Foundation, 226811487A.  
Fund: \$30,000.00 (December 1, 2017 - August 1, 2019)

#### II. Grants submitted to External Agencies –NIH: Dr. Jwala Renukuntla as PI and Co-PI

- 1) *Formulation of Fluasterone Topical Nano Suspension*  
STTR Small Business Technology Transfer Grant: \$90,000  
Submitted September 5 2017, Status: Pending  
Applicant/Prime Institution: Sterotherapeutics Principal Investigator:  
Cooperating/Sub recipient Organization: University of Texas at El Paso  
Role: Co-PI
- 2) *Characterization of novel anti-cancer compounds*  
Kleberg Foundation Grant \$500,000  
Submitted August 21 2017, Status: Pending  
Role: Collaborator
- 3) *Acquisition of a microfluidic-based 3D bio printer for additive manufacturing of biomaterials for fabrication of tissue-on-a-chip models-*  
Major Research Instrument Grant, NSF: \$380,000,  
Submitted December 15 2017, Status: Pending  
Role: Collaborator
- 4) *Can pH-responsive Nano antibiotics control the antibacterial resistance?*  
NIH Small Research Grant Program (Parent R03) RO3: GRANT12346186:  
\$150,000 – Submitted February 15 2017, Status - Rejected  
Role: PI

#### III. Grants submitted Internally to ORSP UTEP: Dr. Jwala Renukuntla as PI

- 1) *Guanidinylated lipids, janus type dendrimers and their lysine functionalized derivatives for management of diabetes and associated infections - in preliminary in vitro and in vivo studies*  
Score Grant Internal Competition: SC2 Grant  
\$150,000  
Did not progress to external agency

- 2) *Stimuli sensitive Nano antibiotics to control antibacterial resistance crisis*  
Kleberg Foundation Internal Competition  
Ranked: Top 2 Proposals  
Did not progress to external agency

#### IV. Training grant proposals submitted/approved: Dr. Jwala Renukuntla as PI

- 1) *Can pH-responsive nano-antibiotics control the antibacterial resistance crisis*  
Border Biomedical Research Center (BBRC) grant, UTEP, \$ 25, 000  
Submitted and approved for funding in 2018  
Role: PI

#### V. Ongoing research support

- 1) *UTEP Strat up Grant: \$269,000, 2016-2019*  
PI: Jwala Renukuntla

#### VI. Completed Research Grant Funding

- 1) *Extension of Beyond the Use Dates (BUD) for Combination Topical Pain Medications*  
International Academy of Compounding Pharmacists (IACP) 07/01/2013 – 01/01/2015  
Fund: \$10,000

### Peer Reviewed Publications

#### Manuscripts under Revision

- 1) Rahul S. Kalhapure and **Jwala Renukuntla**. Thermo- and pH dual responsive polymeric nanosystems. *Journal of Drug Targeting*. (Manuscript ID: JDT-2017-0356).
- 2) Rahul S. Kalhapure, Pradeep Bolla, Delfina C. Dominguez, Amit Dahl, Sai H.S. Boddu, Jwala Renukuntla. Furosemide-silver complex nanosuspension: preparation and evaluation of antibacterial activity. *IET Nanobiotechnology*. (Manuscript ID: NBT-2017-0284).
- 3) Pradeep Kumar Bolla, Rahul S. Kalhapure, Victor A Rodriguez and **Jwala Renukuntla**. A review on pH and temperature responsive gels and other less explored drug delivery systems. *Journal of Pharmacy and Pharmaceutical Sciences*. (Manuscript ID: 29708).

#### Published Articles

- 1) Kalhapure RS, Jadhav M, Rambharose S, Mocktar C, Singh S, **Renukuntla J**, Govender, T. pH-responsive chitosan nanoparticles from a novel twin-chain anionic amphiphile for controlled and targeted delivery of vancomycin. *Colloids and Surfaces B: Biointerfaces* Manuscript ID: COLSUB-D-17-00725R1, Journal Impact factor : 4.29, July 2017
- 2) Kalhapure RS, Sikwal DR, Rambharose S, Mocktar C, Singh S, Bester L, Oh JK, **Renukuntla J**, Govender T. Enhancing targeted antibiotic therapy via pH responsive solid lipid nanoparticles from an acid cleavable lipid. *Nanomedicine*, Journal Impact factor : 6.28, April 2017
- 3) **J. Renukuntla**, S. Shah, S. H. S. Boddu, A. D. Vadlapudi, R. K. Vadlapatla, D. Pal, Ashim K. Mitra, "Functional characterization and expression of folate receptor- $\alpha$  in T47D human breast cancer cells", *Journal of Drug Development and Therapeutics*, August 2015

- 4) **Renukuntla J**, Vadlapudi A, Boddu SHS, Patel A, Mitra AK, Approaches for enhancing the oral bioavailability of proteins and peptides, International Journal of Pharmaceutics, 2013 Apr 15;447(1-2):75-93
- 5) Boddu SHS, Vaishya R, **Jwala J**, Vadlapudi A, Pal D, Mitra AK. Preparation and Characterization of Folate Conjugated Nanoparticles of Doxorubicin using PLGA-PEG-FOL Polymer. Medicinal chemistry. 2012; 2:68-75
- 6) **Jwala J**, Vadlapatla R, Vadlapudi A, Boddu SHS, Pal DJ, Mitra AK. Differential expression of folate receptor-alpha (FR- $\alpha$ ), sodium dependent multivitamin transporter (SMVT) and amino acid transporter (B (0, +)) in human retinoblastoma (Y-79) and retinal pigment epithelial (ARPE-19) cell lines. Journal of Ocular Pharmacology and Therapeutics. 2012; 28(3):237-44
- 7) **Jwala J**, Boddu SHS, Paturi DK, Shah S, Smith SB, Pal D, et al. Functional characterization of folate transport proteins in staten's seruminstitut rabbit corneal epithelial cell line. Current Eye Research, 2011; 36(5):404-16
- 8) **Jwala J**, Boddu SHS, Shah S, Sirimulla S, Pal D, Mitra AK. Ocular sustained release nanoparticles containing stereo isomeric dipeptide prodrugs of acyclovir. Journal of Ocular Pharmacology and Therapeutics. 2011; 27(2):163-72
- 9) Boddu SHS, **Jwala J**, Chowdhury MR, Mitra AK. In vitro evaluation of a targeted and sustained release system for retinoblastoma cells using doxorubicin as a model drug. Journal of Ocular Pharmacology and Therapeutics, 2010; 26(5):459- 68
- 10) Earla R, Boddu SHS, Cholkar K, Hariharan S, **Jwala J**, Mitra AK. Development and validation of a fast and sensitive bioanalytical method for the quantitative determination of glucocorticoids-quantitative measurement of dexamethasone in rabbit ocular matrices by liquid chromatography tandem mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis. 2010
- 11) Mishra GP, Tamboli VM, **Jwala J**, Mitra AK. Recent patents and emerging therapeutics in the treatment of allergic conjunctivitis. Recent Patents on Inflammation & Allergy Drug Discovery, 2011; 5(1):26-36
- 12) Gaudana R, **Jwala J**, Boddu SH, Mitra AK. Recent perspectives in ocular drug delivery, Pharmaceutical research. 2010; 26(5):1197-1216
- 13) Boddu SH, **Jwala J**, Vaishya R, Earla R, Karla PK, Pal D, Mitra AK 2010. Novel nanoparticulate gel formulations of steroids the treatment of macular edema, Journal of Ocular Pharmacology Therapeutics. 26(1):37-48

## Book Chapters

- 1) Boddu SHS, **Renukuntla J**, Riga A, Alexander K. Excipients as Active Pharmaceutical Ingredients, Drug Delivery Applications of Excipients, edited by Narang A, Boddu SHS and published by Springer. 2015, Pages 613-636.
- 2) Chandrasekhar Garapati, Himanshu Gupta, **Jwala Renukuntla** and Sai H. S. Boddu. Tailoring the Release of Drugs Using Excipients, published by Springer edited by Narang A, Boddu SHS and published by Springer. 2015
- 3) **Renukuntla J**, Sujay J. Shah, Aswani Dutt Vadlapudi, Mitesh Patel and Ashim Mitra Drug Delivery to Anterior Segment of the Eye, Treatise on Ocular Drug Delivery, edited by Mitra AK and published by Bentham Science. (ISBN# 978-1-60805-175-5, 2013)
- 4) Mitesh Patel, Megha Barot, **Jwala Renukuntla** and Ashim K. Mitra. Protein and Peptide Drug Delivery, Advanced Drug Delivery, edited by Ashim K. Mitra, Chi H. Lee, Kun Cheng and published by John Wiley & Sons, Inc. ISBN: 978-1-118-02266-5, 2013
- 5) Gunda S, Boddu SHS, **Gupta J**, Mitra AK, Ocular Pharmacokinetics: Challenges and Models, In: Duane's Foundations of Clinical Ophthalmology, 2012, J. B. Lippincott Co. p. 17337-17350, 2012

- 6) Kwatra D, Gaudana R, Vaishya R, **Jwala J**, Mitra A.K, "Ocular delivery using prodrugs", Methods and Principles in Medicinal Chemistry, Wiley- VCH Verlag GmbH & Co. KGaA, 2012
- 7) Boddu SH, **Jwala J**, Janoria KG, Pal D, and Mitra AK, Development of Steroid-Nanoparticles for the Treatment of Macular Edema, J Interdisciplinary Research.Vol 2, No 1, Megan Cornell (Ed), KCMO, 81-99, 2008.

### **Presentations/Abstracts- International/National/Local Conferences**

- 1) **J. Renukuntla\***, R. Kalhapure, P. Bolla, S. H. Boddu, A. Tawfik. Expression of Folate Receptor (FR- $\alpha$ ) and Proton Coupled Folate Transporter (PCFT) on RPCEC and HCEC Cell Line. The Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, April 29 - May 3, 2018, Honolulu, Hawaii, USA.
- 2) Rahul S. Kalhapure, Mahantesh Jadhav, Sanjeev Rambharose, Chunderika Mocktar, **Jwala Renukuntla\***, Thirumala Govender\*. A novel anionic gemini surfactant: synthesis and application in the preparation of vancomycin loaded pH-responsive chitosan nanoparticles. AAPS Annual Meeting and Exposition, November 12-15, 2017, San Diego Convention Center, San Diego, CA, USA.
- 3) Kalhapure, Rahul, Fernandez, Aleli, **Renukuntla, Jwala\***, "Mucoadhesive chitosan nanoparticles for improved precorneal retention and corneal permeability of tobramycin," Poster, COURI Symposium, UTEP, El Paso TX. (August 1, 2017)
- 4) Kalhapure, Rahul, Vigil, Jade, **Jwala Renukuntla\*** "Nanotechnology based solution to enhance solubility and antibacterial activity of silver-furosemide complex," Poster, COURI Symposium, UTEP, El Paso TX. (August 1, 2017)
- 5) Kalhapure RS, Jadhav M, Rambharose S, Mocktar C, **Renukuntla J**, Govender, pH-responsive vancomycin loaded chitosan nanoparticles as a nanoantibiotic for the treatment of MRSA associated infections, Gordon Research Conference (GRC) Conference: Preclinical Form & Formulation for Drug Discovery, Stoweflake Conference Center in Stowe VT United States, 2017
- 6) Kalhapure RS, Jadhav M, Rambharose S, Mocktar C, **Renukuntla J**, Govender, Vancomycin loaded pH-responsive chitosan nanoparticles as a nanoantibiotic against methicillin-resistant Staphylococcus Aureus Controlled Release Society Annual Meeting and Exposition (CRS) Hynes Convention Center, Boston, MA, 2017
- 7) Connie Rust, Brian Esters, **Jwala Renukuntla**, Laura Schalliol, Maria Baranova, Evaluation of Medication Safety and Dispensing Skills in Pharmacy Students Enrolled in an Accelerated Pharmacy Program, American Association of Colleges of Pharmacy (AACP) , Gaylord Opryland Resort & Convention Center, Nashville, TN, 2017
- 8) Renukuntla J, J Chen, Development and Validation of a Liquid Chromatography Method for the Determination of Ketamine and Lidocaine in a Compounded Cream Formulation –American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Orlando, FL, 2015
- 9) **Renukuntla J**, Paudel K, Dunbar J, Hurst S, Development and Validation of a Liquid Chromatography Method for the Determination of Baclofen in a Compounded Cream Formulation –American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Sandiego, CA, 2014
- 10) **Renukuntla J**, BodduSH, Tawfik A, "Expression of Folate Receptor (FR-  $\alpha$ ) and Proton Coupled Folate Transporter (PCFT) on RPCEC and HCEC Cell Lines". American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Chicago, IL, 2012
- 11) Vadivel Ganapathy, Paresh Chothe, Sudha Ananth, **J Jwala**, A D. Vadlapudi, A K. Mitra, P M. Martin, S B. Smith, "Transport of Oligopeptides In Corneal Epithelial Cells: An Ideal System For

- Delivery Of Peptides And Peptidomimetic Drugs Into The Anterior Chamber Of Eye". ARVO meeting, Fort Lauderdale, FL, 2012.
- 12) **Jwala J**, Vadlapatla R, Vadlapudi A, Boddu SHS, Pal DJ, Mitra AK. "Relative expression of folate receptor-alpha (FR- $\alpha$ ), sodium dependent multivitamin transporter (SMVT) and amino acid transporter (B (0, +)) in human retinoblastoma (Y-79) and retinal pigment epithelial (ARPE-19) cell lines". American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Washington, DC, 2011
  - 13) Boddu SH, Vaishya R, **Jwala J**, Vadlapudi A, Mitra AK, "Synthesis and In- vitro Characterization of Doxorubicin Loaded Surface Modified Nanoparticles Using PLGA-PEG-FOL Polymer". American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Washington DC, 2011.
  - 14) Xiaoyan Yang, Sujay Shah, Ye Sheng, **Jwala Jwala**, Ashim K. Mitra, "Novel nanoparticulate gel formulations for enhancing ocular bioavailability of ganciclovir for the treatment of viral keratitis". American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Washington, DC [T3242] October 25, 2011.
  - 15) **Jwala Jwala**, Sai H.S. Boddu, Sujay Shah, Dhananjay Pal, Ashim Mitra., "Nanoparticles Encapsulating Novel Stereoisomeric Peptide Prodrugs of Acyclovir for the treatment of Ocular Herpes Keratitis". Pharmaceutical Sciences World Congress (PSWC): International Pharmaceutical Federation (FIP)/ American Association of Pharmaceutical Scientists (AAPS), New Orleans, Louisiana, November 14-18, 2010
  - 16) Earla R, Boddu SHS, Cholkar K, Hariharan S, **Jwala J**, Mitra AK, "Development and validation of a fast and sensitive bioanalytical method for the quantitative determination of Glucocorticoids- Quantitative measurement of dexamethasone in rabbit ocular matrices by liquid chromatography tandem mass spectrometry." Pharmaceutical Sciences World Congress (PSWC): International Pharmaceutical Federation (FIP)/ American Association of Pharmaceutical Scientists (AAPS), New Orleans, Louisiana, November 14-18, 2010
  - 17) Sai H.S. Boddu, **Jwala Jwala**, Monica Chowdhury, Ashim Mitra, "In Vitro Evaluation of a Targeted and Sustained Release System for Retinoblastoma Cells Using Doxorubicin as a Model Drug". The American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, New Orleans, Louisiana, 2010, [SU9221], November 14, 2010
  - 18) Boddu SH, **Jwala J**, Chowdhury MR, Mitra AK, "Controlled and Targeted Delivery of Doxorubicin for the Treatment of Retinoblastoma". The Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Fort Lauderdale, FL, 2010
  - 19) Patel MR, **Jwala J**, Boddu SH, Paturi D, Pal D, Mitra AK, "Identification and Functional Characterization of Folate Receptors on SIRC Cell Line and Rabbit Cornea". The Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Fort Lauderdale, FL, 2010
  - 20) Jwala J, Boddu SH, Shah SJ, Pal D, Mitra AK, "Nanoparticulate Formulations of Stereoisomeric Di-Peptide Prodrugs of Acyclovir". ARVO Annual meeting, Fort Lauderdale, FL, 2010
  - 21) **Jwala J**, Boddu SH, Shah SJ, Pal D, Mitra AK, "Development and Characterization of nanoparticles of Stereoisomeric Peptide Prodrugs of Acyclovir", The American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Los Angeles, CA, 2009
  - 22) **Jwala J**, Boddu SH, Shah SJ, Paturi D, Pal D, Mitra AK, "Expression of Folate receptor/Transporter on SIRC cell line and Rabbit Cornea". The American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Los Angeles, CA, 2009
  - 23) Boddu SH, **Jwala J**, Vaishya R, Mitra AK, "In-vitro and Ex-vivo characterization of Steroidal-Nanoparticulate Formulations for the Treatment of Macular Edema". The American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Los Angeles, CA, 2009
  - 24) Awasthi R, Mandava N, **Jwala J**, Minocha M, Paturi D, Pal D, Mitra AK, "Characterization of Sodium Dependent Multivitamin Transporter and its utilization for delivery of Hiv Protease



- Inhibitors Across Blood Brain Barrier Interface". The American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Los Angeles, CA, 2009
- 25) **Jwala J**, S.H.S. Boddu, D. Pal, A.K. Mitra, "Targeted Delivery of Doxorubicin for the Treatment of Retinoblastoma". The Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Fort Lauderdale, FL, 2009
  - 26) Boddu SH, **Jwala J**, Vaishya R, Mitra AK, "In situ Polymeric Biodegradable Gelling Systems of Steroids for the Treatment of Retinal Diseases". The Association for Research in Vision and Ophthalmology (ARVO), Fort Lauderdale, Florida (May 3-7, 2009)
  - 27) ShahS, **Jwala J**, BodduSH, Paturi D, Pal D, MitraAK, "Functional Characterization of Folate Receptor/Transporter on SIRC Cell Line and Rabbit Cornea". Pharmaceutical Graduate Student Research Meeting (PGSRM), Purdue University, IN, 2009
  - 28) Parenky A, **Jwala J**, Boddu SH, Paturi D, Pal D, Mitra AK, "Characterization of Folate Receptor / Transporter on Rabbit Corneal Epithelial Cell Line (SIRC) and Rabbit Cornea". The Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Fort Lauderdale, FL, 2009
  - 29) Boddu SH, **Jwala J**, Vaishya R, Pal D, Mitra AK, "Biodegradable in Situ Gelling Systems of Steroidal Nanoparticles for the Treatment of Retinal Diseases". The American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Atlanta, GA, 2008
  - 30) **Jwala J**, Boddu SH, Roy M, Pal D, Mitra AK, "Nanotechnology Based Drug Delivery System of Doxorubicin for Retinoblastoma". The American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, Atlanta, GA, 2008
  - 31) **Jwala J**, Kawatra D, Pal D, Youan BB, "Cytotoxicity Assessment of Nanodiamonds on Mammalian Cell Lines". The American Association of Pharmaceutical Scientists (AAPS) Annual Meeting and Exposition, San Diego, CA, 2007
  - 32) **Jwala J**, Kwatra D, Pal D, Youan BB, "Evaluation of Cytotoxicity Potential of Nanodiamonds on Mammalian Cell Lines". Pharmaceutical Graduate Student Research Meeting (PGSRM), UMKC, Kansas City, MO, 2007.

## PROFESSIONAL DEVELOPMENT/TRAINING

- 1) Exam Soft Training - UTEP
- 2) Blackboard Training - UTEP
- 3) MIT Controlled Release Technology: Deliver Systems for Pharmaceuticals and other Agents, Boston, MA, 2017
- 4) Veterinary Compounding Training, PCCA, Houston, TX, 2016
- 5) Exam soft training, South College School of Pharmacy, 2015
- 6) CPR training, South College School of Pharmacy, 2014
- 7) Achievement Series training, South College School of Pharmacy, 2013
- 8) OSCE training, South College School of Pharmacy, 2013
- 9) Sterile Compounding, Medisca, University of Florida, Gainesville, FL, 2012
- 10) Non-Sterile Compounding Training, PCCA, Houston, TX, 2012

## TEACHING

### UTEP School of Pharmacy (Traditional Pharm. D program)

- ❖ PHAR 6404 Dosage Forms & Compounding – Course Coordinator (4 Credit hours) – Spring 2018
- ❖ PHAR 6202 Physical Pharmacy– Course Coordinator (2 Credit hours) – Fall 2017
- ❖ Sterile Products - Course Coordinator (2 Credit hours) – May mester 2019

## **Advising at UTEP**

- ❖ Alec Ruiz, P1 Year (Pharm.D)
- ❖ Mathew Macias, P1 Year (Pharm.D)
- ❖ Ranielle Espinoza, P1 Year (Pharm.D)

## **South College School of Pharmacy (3 Year Accelerated Pharm. D program – Quarter system)**

- ❖ PSC 6430 – Sterile Products laboratory based course (2 Credit hours) - Course Coordinator (Spring Quarter 2012, 2013, 2014, 2015, and 2016)
- ❖ PSC 6330 – Pharmaceutical Compounding and dispensing laboratory based course – Course Coordinator (Winter Quarter 2012, 2013, 2014, 2015, and 2016)
- ❖ PSC 6320 – Pharmaceutics I / Physical Pharmacy (Winter Quarter 2012, 2013, 2014)
- ❖ PSC 6320 – Pharmaceutics II / Dosage Forms (Spring Quarter 2012, 2013, 2014)
- ❖ PSC 6003 – Basic Principles of Toxicology Elective (2013, 2014, 2015, 2016))
- ❖ PSC 6706 – Special Projects in Pharmaceutical Sciences Research Elective, Course Director (2012, 2013, 2014, 2015)

## **University of Missouri Kansas City- School of Pharmacy**

- ❖ Pharmaceutics I & II - Served as coordinating teaching assistant for Pharm 7202 and Pharm 7203 courses at University of Missouri, Kansas City (2007 – 2011). Responsibilities: Conducting Physical Pharmacy and Pharmaceutics laboratory sessions for the course period, Training junior teaching assistants, conducting weekly meetings, coordinating teaching assistant's schedules
- ❖ Served as teaching assistant for Advanced Drug Delivery systems course
- ❖ Served as teaching assistant for Novel Drug Delivery Systems Graduate course
- ❖ Served as teaching assistant for Physical Pharmacy

## **Research Mentorship**

### **UTEP School of Pharmacy**

- ❖ Rahul Kalhapure, Ph.D., Post-Doctoral Scholar:
- ❖ Pradeep Bolla (Ph.D.), Graduate student Biomedical Engineering:
- ❖ Victor Rodriguez (M.S), Graduate student Biomedical Engineering:
- ❖ Jessica Mayes (M.S), Graduate student Biology:
- ❖ Stefani Petor (Ph.D.), Graduate student Biomedical Engineering:
- ❖ David Ramos, Biology Major, Undergraduate student
- ❖ Maya Ruiz, Meritus Scholar, Biology Major
- ❖ Aleli Fernandez, Building scholar, EPCC
- ❖ Jade Vigil, Building scholar
- ❖ Julian Franco, Building scholar Biomedical Engineering
- ❖ Carlos A. Merez, Building scholar Mechanical Engineering



## **South College School of Pharmacy**

- ❖ Krista King, Pharm. D – Stability of Compounded Transdermal Cream
- ❖ Georgiana Abernathy, Pharm. D – Stability of Compounded Transdermal Cream
- ❖ Shydul Hassan, Pharm. D – Stability of Compounded Transdermal Cream
- ❖ Masiha Haque, Pharm. D – Stability of Compounded Transdermal Cream
- ❖ John Schnur, Pharm. D – Stability of Compounded Transdermal Cream

## **SERVICE**

### **Professional Memberships**

- ❖ American Association of pharmaceutical Scientists (AAPS) - Sterile Products Focus Group (SPFG) 2015-2016, programming Liaison
- ❖ Controlled Release Society (CRS)- Member, 2014 – Present
- ❖ American Association of Pharmaceutical Scientists (AAPS) - Member, 2007- Present
- ❖ AAPS Excipients Focus Group (EFG), Member and Student representative of 2011-2012 (Invited membership)
- ❖ AAPS Sterile Products Focus Group (SPFG) Steering Committee member, 2013 -2016 (Invited membership)
- ❖ AAPS Communications Committee Member, Formulation Design and Development (FDD) Section – American Association of Pharmaceutical Scientists (AAPS), 2013-2016 (Invited membership)
- ❖ Program committee member of Teachers of Pharmaceutics Section of the American Association of Colleges of Pharmacy (TPS-AACP) (2013-2014)
- ❖ Association for Research in Vision and Ophthalmology (ARVO) Member, 2008-Present
- ❖ Sigma Xi, Member, 2011-2016, (Nominated by Sigma Xi member)
- ❖ American Association of colleges of Pharmacy, Member (AACP) 2013 – Present
- ❖ Member of International Academy of Compounding Pharmacists (IACP) 2013-2016

### **Service to Profession-Scientific Community**

#### **Grant Reviewer**

- 1) American Association of Colleges of Pharmacy (AACP) -New Investigator grants, 2013- Present

#### **Scholarships reviewer**

- 1) Express Scripts Scholarship 2013, 2014, 2015,2016
- 2) Judge for the Sigma Xi Student Research Showcase 2013, 2014 and 2015

#### **Journal Reviewer**

- 1) Journal of Ocular Pharmacology and Therapeutics, 2011– Present
- 2) Journal of Controlled Release, 2015 – Present
- 3) International Journal of Pharmaceutics, 2011– Present
- 4) Current Eye Research 2011– Present
- 5) Chronicles of Young Scientists 2012– Present

- 6) Current Cancer Drug Targets, 2011- Present
- 7) European Journal of Pharmaceutical sciences, 2012-Present
- 8) Journal of Controlled release, 2012- Present
- 9) Journal of Drug Delivery, 2012- Present
- 10) Journal of Nano medicine, 2012- Present
- 11) American Association of Pharmaceutical Scientists (AAPS) conference abstracts, 2012 - Present

## **Institutional service**

### **University of Texas at El Paso**

- 1) State Employee Charitable Campaign- Faculty Representing UTEP School of Pharmacy
- 2) BUILD scholar Field Trip to School of Pharmacy, Program Coordinator/organizer, UTEP School of Pharmacy, ElPaso, TX, USA, and approx.. (April, 2017 - May15, 2017) Students were taught how to make chaps ticks and a cream. BUILD students were exposed to various research and career paths in Pharmacy.

### **UTEP School of Pharmacy**

- 1) Student Recruitment efforts
  - ❖ Silva Health Magnet Pharm Tech class presentations – 5/25/2017, I presented career paths in pharmacy to about 30 students
  - ❖ JOBCON tabling for EPISD – 9/28/2017  
I spoke about career paths in Pharmacy to about 200 students
  - ❖ Conducting Student Interviews MMIs for recruiting students to Pharm. D program
- 2) Faculty Recruitment efforts: **Pharmaceutics Faculty Search Committee:** Committee Member (October 1, 2016 - June 15, 2017) Was heavily involved in screening the candidates for Pharmaceutics faculty position, reviewing applicant's candidacy packages individually for all the applicants applied, provided feedback and then screened by telephone and was involved in onsite interviews.
- 3) Curriculum Committee: (January 1, 2017 - August 1, 2017)  
Role: Pharmaceutical Sciences Track Lead – Conducted Track meetings to coordinate Foundations courses, created Course add forms for all foundation courses, Block scheduling Foundations courses, Outlining and developing syllabus, course materials.  
Booth Camp Co coordinator – content design, assessment creation and content delivery as a part of new student orientation.
- 4) Assessment Committee, Committee Member (January 1, 2017 - August 1, 2017)
  - ❖ Exam soft training
  - ❖ Building Question banks
  - ❖ Building Assessments
- 5) Research and Scholarship committee, Committee Member (June 15, 2017 - Present)
- 6) Faculty Excellence Team, Committee Member (August 2, 2016 - June 15, 2017)
  - ❖ I was involved and developed by laws for faculty assembly
- 7) Student Excellence Team, Committee Member (August 1, 2016 - June 15, 2017)
  - ❖ Developed and involved in creating MMIs
- 8) Progression Committee, Committee Member (January 1, 2017 - Present)
  - ❖ Developed Progression committee bylaws

- 9) Faculty Assembly - Member At large Pharm Sci, Faculty at Large Pharmaceutical Sciences Team (January 1, 2017 - December 31, 2017)

### **South College School of Pharmacy**

- 1) Chair, ACPE Self Study Subcommittee (Standards 20 and 21), South College School of Pharmacy, TN (August 2013-August 2016)
- 2) Curricular affairs Committee-Member - South College School of Pharmacy, Knoxville, TN (2015 - 2016) Role: Curriculum integration and syllabus review and recommendations for all Pharm. D courses included in the curriculum
- 3) Vice Chair, Student services Committee, South College School of Pharmacy, Knoxville, TN (September 2015- July 2016)  
Role: Planned and organized Compounding Camps and Compounding Competitions
- 4) Faculty Peer Review and Promotion Committee Member, South College School of Pharmacy, Knoxville, TN (March 2014 – July 2016)  
Role: Developed by laws, evaluated and reviewed faculty portfolios for promotion and tenure
- 5) Research Committee-Member, South College School of Pharmacy, Knoxville, TN (April 2012-June 2014)
- 6) Admission Committee-Member, South College School of Pharmacy, Knoxville, TN (April 2012-April 2013)  
Role: Conducted student Interviews for all incoming students
- 7) Honors and awards Committee-Member, South College School of Pharmacy, Knoxville, TN (2012-2015)
- 8) Events and ceremonies Committee-Member, South College School of Pharmacy, Knoxville, TN (June 2013- June 2016) Role: Heavily involved in programming and coordinating planning White coat ceremony, pinning ceremony and Graduation ceremony
- 9) Lab Safety Committee Member, South College School of Pharmacy, TN (June 2012- June 2013)
- 10) ACPE Self Study Subcommittee (Section 16 and 20), South College School of Pharmacy, TN (June 2015 – June 2016)
- 11) Faculty Mentor, South College School of Pharmacy, Tennessee (2012-2016). I served as a mentor for 12 South College pharmacy students
- 12) Student Compounding Competition: Planned, organized, and directed the 2013, 2014, 2015 and 2016 South College School of Pharmacy - Student Compounding Competition. Our three best student winners from each cohort, including me went to the University of Florida College of Pharmacy on March 21-23, 2014, 2015, 2016 and participated and placed Fourth in the National Student Compounding Competition during 2013.
- 13) Faculty recruitment - Department of Pharmaceutical sciences, South college school of Pharmacy. (2013 -2016)

### **UMKC School of Pharmacy**

- 1) Treasure for PSGSA-UMKC Student Chapter, School of Pharmacy, 2007-08

### **Community Service in El Paso, TX Jan 2017 –**

#### **Outreach activities**

- 1) Community Outreach for Purple Heart elementary school, Program Coordinator/organizer, UTEP School of Pharmacy, El Paso, TX, USA, approx. 20 hours spent per year, appointed. (September 15, 2017 - December 15, 2017)

- 2) Community Outreach for Lafe Preparatory school, Program Coordinator/ Organizer, El Paso, TX, USA, and approx. 20 hours spent per year, appointed. (March 1, 2017 - July 20, 2017)

**Community Service in Knoxville, TN Jan 2012- July 2016**

- 1) "Brain games" community service activity for Senior, John T. O'Connor Senior Center, Knoxville, TN (June 15, 2016)
- 2) Second Harvest Food Bank, organized by South College School of Pharmacy, Knoxville, TN (26 July, 2016)
- 3) "Brain games" community service activity for Senior, John T. O'Connor Senior Center, Knoxville, TN (August 15, 2015)
- 4) "Brain games" community service activity for Senior, John T. O'Connor Senior Center, Knoxville, TN (August 28, 2014)
- 5) Hardin Valley Church of Christ Health Fair, organized by South College School of Pharmacy, Knoxville, TN (March 1, 2014)
- 6) "Brain Games" community service activity for Senior Citizens, organized by
- 7) South College School of Pharmacy, TN (August 22, 2013)
- 8) Second Harvest Food Bank, organized by South College School of Pharmacy, Knoxville, TN (15 Jan, 2016)
- 9) Second Harvest Food Bank, organized by South College School of Pharmacy, Knoxville, TN (26 July, 2012)