

CURRICULUM VITAE 2015

Venkata Kashyap Yellepeddi

ADDRESS:

Professional:

College of Pharmacy
Roseman University of Health Sciences
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EDUCATION:

- Ph.D. Texas A&M University Health Science Center, College Station, TX 77843. Major Field: Medical Sciences. Specialization: Pharmaceuticals & Drug Delivery. Dissertation Title: Biotinylated PAMAM Dendrimers as Nanocarriers for Targeting Cisplatin to Ovarian Cancer. (December 2011).
- B.Pharmacy Kakatiya University, Warangal, Andhra Pradesh, India 506009. (October 2002).

PROFESSIONAL POSITIONS:

- Assistant Professor of Pharmaceutical Sciences:* College of Pharmacy, South Jordan Campus, Roseman University of Health Sciences, South Jordan, Utah 84095 (January 2012-present).
- Adjunct Assistant Professor:* College of Pharmacy, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, Salt Lake City, Utah 84112 (July 2013-present).
- Visiting Scientist:* Nanoinstitute of Utah, USTAR Innovation Center, University of Utah, Salt Lake City, Utah 84112 (March 2012-June 2013).
- Visiting Faculty:* Irma Lerma Rangel College of Pharmacy, Texas A&M University-Health Science Center, Kingsville, Texas 78363 (August 2014-present).
- Graduate Research Assistant:* Irma Lerma Rangel College of pharmacy, Texas A&M University Health Science Center, Kingsville, Texas 78363. (June 2009-December 2011).
- Clinical Pharmacology Intern:* Clinical Pharmacology and Pharmacokinetics Division, Covidien Inc., St. Louis, Missouri (May 2010-August 2010).

Graduate Teaching Assistant: Irma Lerma Rangel College of pharmacy, Texas A&M University Health Science Center, Kingsville, Texas 78363. (June 2008-June 2009).

Graduate Teaching Assistant: College of Pharmacy, South Dakota State University, Brookings, South Dakota, 57007. (October 2006-May 2008).

Senior Research Fellow: Pharmacology Division, Indian Institute of Chemical Technology, Hyderabad, India. (August 2003-September 2006).

Scientific Services Officer: Sanofi-Synthélabo (Sanofi-Aventis), Hyderabad, India. (February 2003-May 2003).

HONORS AND AWARDS:

American Association of College of Pharmacy (AACP), New Investigator Award, 2013.

International Academy of Compounding Pharmacists (IACP), Research Award, 2013.

First Place, Poster Presentation, College of Pharmacy Research Colloquium, Irma Lerma Rangel College of Pharmacy, 2010.

Foreign Pharmacy Graduate Equivalency Certification (FPGEC), National Association of Boards of Pharmacy, 2009.

Travel Award from School of Graduate Studies, South Dakota State University for attending American Association of Pharmaceutical Scientists (AAPS) Annual Meeting, San Diego, 2007.

First Place, Ph.D. proposal, Graduate Research Awards, Sigma Xi Chapter, South Dakota State University.

Faculty Mentor For: Fund the Future Scholarship for the Compounders on Capitol Hill 2014 (Angela Yuen-P3 Student), IACP Foundation Student Essay Competition Winner (Prisca Umeh-P3 Student)

GRANT SUPPORT:

Smith Rexall Drug Company, 2015, For the proposal "Potency and Stability Studies of Compounded Formulations". (\$ 8000; Grant Duration – Mar 2015 to Mar 2016).

American Association of College of Pharmacy, New Investigator Award, 2013. For the proposal "Omega-3 Fatty Acid Nanoconstructs for Targeted Delivery of Paclitaxel". (\$10,000; Grant Duration – Jan 2013 to Jan 2014).

International Academy of Compounding Pharmacists Foundation, Research Grant, 2013, for proposal "Formulation and Stability Studies of a Preservative Free Prochlorperazine Nasal Spray for Pain Relief in Migraine". (\$9500; Grant Duration – Feb 2013 to Feb 2014).

GRANTS SUBMITTED:

Dissolution Methods for Long-acting Periodontal Drug Products. U01, RFA-FD-15-007 Food and Drugs Administration (FDA), National Institutes of Health (NIH), Bethesda MD 20892-7769 (Under review).

Dendritic nanoconstructs for oral delivery to pediatrics. R03, PAR-13-344. Eunice Kennedy Shriver National Institute of Child Health and Human Development - NICHD, National Institutes of Health (NIH), Bethesda MD 20892-7768. (Not funded)

Pediatric oral formulation for postnatal therapy of cerebral palsy. R21, PAR-13-326. Eunice Kennedy Shriver National Institute of Child Health and Human Development - NICHD, National Institutes of Health (NIH), Bethesda MD 20892-7768. (Not funded)

Transepithelial Transport of Poly(amidoamine) Dendrimers Across Isolated Intestinal Tissue of Newborn Rabbits. Yellepeddi VK, Andrew G (student). American Foundation for Pharmaceutical Education. (Not funded)

Dequalinium-Coated Poly (D,L-lactide-co-glycolide) Nanoparticles for Reversal of Paclitaxel Resistance. Yellepeddi VK, Annh Vo (student). American Foundation for Pharmaceutical Education. (Not funded)

PROFESSIONAL SOCIETIES:

American Association of Pharmaceutical Scientists (AAPS)
Controlled Release Society (CRS)
American Association of Colleges of Pharmacy (AACP)
International Academy of Compounding Pharmacists (IACP)
Academy of Health Science Educators (ASHE), University of Utah

SCIENTIFIC REVIEWER:

Lippincott William and Wilkins, 2012-present
Advanced Drug Delivery Reviews, 2013-present
Journal of Controlled Release, 2013-present
Biomacromolecules, 2014-present
Molecular Pharmaceutics, 2014-present
American Journal of Pharmaceutical Education, 2014-present
Pharmaceutical Research, 2013-present
Colloids and Surfaces B: Biointerfaces, 2013-present
Photo Diagnosis and Photodynamic Therapy, 2014-present
Journal of Biomedical Nanotechnology, 2012-present
Journal of Pharmaceutics, 2012-present
Phytotherapy, 2012-present
Journal of Nanopharmaceutics and Drug Delivery, 2014-present
Chemical Science, 2014-present
Journal of Pharmacy and Pharmacology, 2014-present
Chemical Research in Toxicology, 2014-present
Journal of Materials Chemistry B, 2014-present
ACS Applied Materials and Interfaces, 2015

European Polymer Journal, 2015-present
Bioorganic and Medicinal Chemistry Letters, 2015

GRANTS REVIEWER:

American Association of College of Pharmacy – New Investigator Award
Fight For Sight Foundation Research Grant

PROFESSIONAL COMMITTEES:

Steering committee member, American Association of Pharmaceutical Scientists(AAPS) – Targeted Drug Delivery Focus Group, 2013-present.
Steering committee member, AAPS – Rocky Mountain Discussion Group, 2014.
Program committee member, American Association of College of Pharmacy – Pharmaceutics Section, 2013-present.
Curriculum Committee, College of Pharmacy, Roseman University of Health Sciences, 2012-present
Planning, Priorities, and Resource Committee, College of Pharmacy, Roseman University of Health Sciences, 2012-present.
Recruitment Committee, College of Pharmacy, Roseman University of Health Sciences, 2014-present
Academic Performance and Standards Committee, College of Pharmacy, Roseman University of Health Sciences, 2014-present
Bylaws Committee, College of Pharmacy, Roseman University of Health Sciences, 2014-present
Health and Wellness Taskforce Committee, College of Pharmacy, Roseman University of Health Sciences, 2014-present

SEARCH COMMITTEES:

Director/Assistant/Associate Dean of Assessment
Director of Institutional Research

RESEARCH INTERESTS:

Nanotechnology for Cancer Diagnosis and Treatment
Nonviral Gene/Nucleic Acid Delivery
Pharmacokinetics of Nanotechnology based formulations
Oral Delivery
Formulation and Stability Studies for Compounded Formulations
Active learning strategies for teaching Pharmaceutics and Pharmacokinetics

TEACHING EXPERIENCE:

2012-present: Course coordinator for Pharmaceutics (PHAR 430) Course. Roseman University of Health Sciences.
2013-present: Course coordinator and facilitator for Pharmacokinetics (PHAR 431) Course. Roseman University of Health Sciences.
2013-present: Course Facilitator for Clinical Immunology (PHAR 513) Course. Roseman University of Health Sciences.
2014: Course Facilitator for Pain Elective (PHAR693). Roseman University of Health Sciences.

2014: Course Facilitator for Pharmaceutical Calculations (PHAR 450) Course. Roseman University of Health Sciences.
2014: Course Facilitator for Complementary Medicine: Drug and Non Drug Therapies (PHAR 680) Elective. Roseman University of Health Sciences.
2014: Course facilitator for Pharmaceutics II (PHAR 741) Course. Texas A&M University-Health Sciences Center.
2012-present: Instructor for Basic Life Support Training, American Heart Association. Roseman University of Health Sciences.
2008, 2009: Teaching assistant for Sterile Products/I.V Admixtures (PHAR 777) Lab. Texas A&M University Health Sciences Center.
2007, 2008: Teaching Assistant for Pharmacology II (PHA 443) Lab, South Dakota State University.
2007: Teaching Assistant for Pharmaceutics II (PHA 332) Lab, South Dakota State University.
2007: Teaching Assistant for Drugs of Abuse and Addiction (PHA 752) Course, South Dakota State University.
2007: Teaching Assistant for Complementary and Alternative Medicine (PHA 754) Course, South Dakota State University.

STUDENT SUPERVISION:

Pharmacy and Dental Student Training and Supervision:

Ryan Nielsen (2012-2013)
Kyungmi Kim (2013-Present)
Chirag Kumar Patel (2013)
Dennis DeLoach (2014)
Julie Phan (2014-present)
Annh Vo (2014-present)

STUDENT ORGANIZATIONS:

Faculty Advisor: Roseman University Yoga and Meditation Club (RUYM) (2014-Present).

LIST OF PUBLICATIONS:

Definitive Papers

Yellepeddi VK, Seshala R, McMillan H, Jones D, Singh RT. Punctal plug – A medical device to treat dry eye syndrome and for sustained drug delivery to the eye. *Drug Discovery Today*. 2015, Feb 7. [Epub ahead of print].

Stockmann C, Roberts JK, **Yellepeddi VK**, Sherwin CT. Clinical Pharmacokinetics of Inhaled Antimicrobials. *Clinical Pharmacokinet*. 2015, May:54(5):473-92.

Sherwin CT, Yang X, Yu T, **Yellepeddi VK**, BrunnerH, Vinks A. Pharmacokinetic modelling of therapies for Systemic Lupus Erythematosus. *Expert Rev. of Clin. Pharm*. 2015 (Manuscript accepted-In press).

Yellepeddi VK, Vangara KK, Palakurthi S. Poly(amido)amine (PAMAM) dendrimer-cisplatin complexes for chemotherapy of cisplatin-resistant ovarian cancer cells. *J Nanopart Res.* 2013, Aug;15:1897.

Yellepeddi VK, Vangara KK, Palakurthi S. In vivo efficacy of PAMAM-dendrimer-Cisplatin complexes in SKOV-3 xenografted Balb/C nude mice. *J of Biotechnology and Biomaterials.*2013, S13:003.

Yellepeddi VK, Vangara KK, Kumar A, Palakurthi S. Comparative evaluation of small-molecule chemosensitizers in reversal of cisplatin-resistance in ovarian cancer cells. *Anticancer Res.* 2012. Sep;32(9):3651-8.

Palakurthi S, **Yellepeddi VK**, Vangara KK. Recent trends in cancer resistance reversal strategies using nanoparticles. *Expert Opin Drug Deliv.* 2012 Mar; 9(3):287-301.

Yellepeddi VK, Kumar A, Maher DM, Chauhan SC, Vangara KK, Palakurthi S. Biotinylated PAMAM dendrimers for intracellular delivery of cisplatin to ovarian cancer: role of SMVT. *Anticancer Res.* 2011 Mar; 31(3):897-906.

Yellepeddi VK, Kumar A, Palakurthi S. Biotinylated poly (amido) amine (PAMAM) dendrimers as carriers for drug delivery to ovarian cancer cells in vitro. *Anticancer Res.* 2009 Aug; 29(8):2933-43.

Yellepeddi VK, Kumar A, Palakurthi S. Surface modified poly (amido) amine dendrimers as diverse nanomolecules for biomedical applications. *Expert Opin Drug Deliv.* 2009 Aug; 6(8):835-50. **Review.**

Pisal DS, **Yellepeddi VK**, Kumar A, Palakurthi S. Transport of surface engineered polyamidoamine (PAMAM) dendrimers across IPEC-J2 cell monolayers. *Drug Deliv.* 2008 Nov; 15(8):515-22.

Pisal DS, **Yellepeddi VK**, Kumar A, Kaushik RS, Hildreth MB, Guan X, Palakurthi S. Permeability of surface-modified polyamidoamine (PAMAM) dendrimers across Caco-2 cell monolayers. *Int J Pharm.* 2008 Feb 28; 350(1-2):113-21.

Kumar PS, Saini TR, Chandrasekar D, **Yellepeddi VK**, Ramakrishna S, Diwan PV. Novel approach for delivery of insulin loaded poly (lactide-co-glycolide) nanoparticles using a combination of stabilizers. *Drug Deliv.* 2007 Nov; 14(8):517-23.

Sistla R, Tata VS, **Yellepeddi VK**, Chandrasekar D, Diwan PV. Development and validation of a reversed-phase HPLC method for the determination of ezetimibe in pharmaceutical dosage forms. *J Pharm Biomed Anal.* 2005 Sep 15; 39(3-4):517-22.

Kumar A, **Yellepeddi VK**, Davies GE, Guan X, Palakurthi S. Enhanced gene transfection efficiency by polyamidoamine (PAMAM) dendrimers modified with ornithine residues. *International Journal of Pharmaceutics.* 2010 Jun 15;392(1-2):294-303.

Kumar A, **Yellepeddi VK**, Palakurthi S. Mechanism of enhanced gene transfection efficiency by polyamidoamine (PAMAM) dendrimers modified with ornithine residues. *Journal of Drug Targeting*. 2010 Nov 19 (9):770-780.

Invited Reviews/Commentaries:

Yellepeddi VK. McPherson TB. PharmDceutics:Applied Biopharmaceutics for Clinical Pharmacists. Edwardsville, IL: PharmDceutics, Inc.;2012. Book Review, *American Journal of Pharmaceutical Education* 2013; 77 (8).

Book Chapters:

Yellepeddi VK, Pharmacokinetics. *Lippincott Illustrated Reviews. Pharmacology, Sixth Edition*. 2014. Published by Lippincott Williams and Wilkins.

Vangara KK, **Yellepeddi VK**. Excipients in pediatric formulations: Biopharmaceutical and toxicological considerations. *Drug Delivery Applications of Excipients*. 2014. Published by Springer Inc. (In Press)

Yellepeddi VK. Nanotechnology-based applications for transdermal delivery of therapeutics. *Novel Delivery Systems for Transdermal and Intradermal Drug Delivery*. 2014. Published by John Wiley & Sons Ltd.

Palakurthi S, **Yellepeddi VK**, Kumar A. Nanocarriers for cytosolic drug and gene delivery in cancer therapy. Book -*Biomedical engineering, Trends, Researches and Technologies*. Published by: INTECH- open access publishing group.

Abstracts (Selected):

Yellepeddi VK, Radhakrishnan J. Formulation and chemical stability Studies of a preservative-free prochlorperazine nasal Spray for pain relief in migraine. American Association of Pharmaceutical Scientists (AAPS), Annual Meeting 2014, November 2 – 6, 2014, San Diego, California.

Yellepeddi VK, Kim K, Radhakrishnan J. Omega-3 fatty acid conjugated dendrimers for delivery of paclitaxel to multidrug-resistant ovarian cancer. American Association of Pharmaceutical Scientists (AAPS), Annual Meeting 2014, November 2 – 6, 2014, San Diego, California.

Yellepeddi VK, Kim K, Radhakrishnan J. Omega-3 fatty acid conjugated dendrimers for delivery of paclitaxel to multidrug-resistant ovarian cancer. American Association of College of Pharmacy (AACP), Annual Meeting 2014, July 26-30, 2014, Grapevine, Texas.

Yellepeddi VK, Nielson R, Chennamaneni S.R and Radhakrishnan J. Development of Dequalinium coated poly (D,L-lactide-co-glycolide) nanoparticles for paclitaxel delivery. Controlled Release Society, Annual Meeting 2013, July 19 -24,2013, Honolulu, Hawaii.

Nielsen R, Jayashree R, **Yellepeddi VK**. Formulation of dequalinium coated PLGA nanoparticles containing paclitaxel as a model chemotherapeutic agent. 16th International symposium on recent advances in drug delivery systems, February 3-6, 2013, Salt Lake City, Utah.

Yellepeddi VK, A. Kumar, K Vangara, S.Palakurthi. Sensitizing drug resistant ovarian cancer cells to cisplatin therapy using surface modified PAMAM dendrimers. Pharmaceutical Science World Congress 2010 by AAPS & FIP, November 14 – 18, 2010, New Orleans, Louisiana.

Yellepeddi VK, A. Kumar, S.Palakurthi. Dendritic cisplatin as a nanodevice for treatment of ovarian cancer. Nanotech conference & Expo May 3-7, 2009, Houston, Texas.

Yellepeddi VK, Ajay Kumar and Srinath Palakurthi. Biotinylated Cisplatin-loaded PAMAM dendrimers for chemotherapy of ovarian cancer. Eighth international conference of anticancer research, October 17-22, 2008, Kos, Greece.

Kumar A, **Yellepeddi VK**, Palakurthi S. Surface-modified polyamidoamine (PAMAM) dendrimers for site-specific gene delivery. EHRLICH II-2nd World conference on magic bullets, October 3-5, 2008, Nurnberg, Germany.

Yellepeddi VK, A. Kumar, M.B.Hildreth, S.Palakurthi. Cellular uptake studies of biotinylated PAMAM dendrimers in ovarian cancer cells in vitro. AAPS annual meeting and exposition, San Diego, November-2007.

Presented posters at AAPS-RMDG annual meeting, University of Montana, Missoula, MT; ASHP-Midyear meeting, Orange County, CA; Research Symposium, Roseman University of Health Sciences, South Jordan Utah and several other local conferences in Utah.