



[SAI HS. BODDU]

Academic Rank

Professor

Qualifications

- Ph.D. (Pharmaceutics and Drug Design) Department of Pharmaceutical Sciences, School of Pharmacy, University of Missouri-Kansas city, MO, USA, August 2006 – December 2010
- M. Pharmacy (Pharmaceutics), NDMVP SAMAJ'S College Of Pharmacy, Nashik, Maharashtra, India, August 2003 – August 2005
- B.Pharmacy Bapatla College of Pharmacy, Bapatla, Andhra Pradesh, India, July 1999 – July 2003

Research field(s)

- Pharmaceutics and Drug Delivery
- Pharmacokinetics
- Bioanalysis
- Nanotechnology

Publications *(Last five years)*

- Jacob S, Kather FS, Morsy MA, **Boddu SHS**, Attimarad M, Shah J, Shinu P, Nair AB. Advances in Nanocarrier Systems for Overcoming Formulation Challenges of Curcumin: Current Insights. *Nanomaterials*. 2024 Apr 12;14(8):672.
- Lee JY, Bhandare RR, **Boddu SHS**, Shaik AB, Saktivel LP, Gupta G, Negi P, Barakat M, Singh SK, Dua K, Chellappan DK. Molecular mechanisms underlying the regulation of tumour suppressor genes in lung cancer. *Biomedicine & Pharmacotherapy*. 2024 Apr 1;173:116275.
- Nangare S, Kolte K, Khan Z, Patil A, Jadhav N, **Boddu SHS**, Charde M, Patil P. Design of cobalt-doped graphene quantum dot-decorated vanadium pentoxide nanosheet-based Off–On fluorescent sensor system for tiopronin sensing. *Analytical Sciences*. 2024 Mar 30:1-5.
- Annaji M, Mita N, Poudel I, **Boddu SHS**, Fasina O, Babu RJ. Three-Dimensional Printing of Drug-Eluting Implantable PLGA Scaffolds for Bone Regeneration. *Bioengineering*. 2024 Mar 6;11(3):259.
- Alrbyawi H, Annaji M, Fasina O, Palakurthi S, **Boddu SHS**, Hassan N, Tiwari AK, Suryawanshi A, Babu RJ. Rapidly Dissolving Trans-scleral Microneedles for Intraocular Delivery of Cyclosporine A. *AAPS PharmSciTech*. 2024 Feb 1;25(2):28.



- Annaji M, Mita N, Heard J, Kang X, Poudel I, **Boddu SHS**, Tiwari AK, Babu RJ. Long-Acting Drug Delivery Technologies for Meloxicam as a Pain Medicine. *Critical Reviews™ in Therapeutic Drug Carrier Systems*. 2024;41(5).
- Beladiya J, Kumar A, Vasava Y, Parmar K, Patel D, Patel S, Dholakia S, Sheth D, **Boddu SHS**, Patel C. Safety and efficacy of COVID-19 vaccines: A systematic review and meta-analysis of controlled and randomized clinical trials. *Reviews in Medical Virology*. 2024 Jan;34(1):e2507.
- Jacob S, **Boddu SHS**, Bhandare R, Ahmad SS, Nair AB. Orodispersible Films: Current Innovations and Emerging Trends. *Pharmaceutics*. 2023 Dec 11;15(12):2753.
- Parikh NH, Solanki J, Parikh PK, Ranch K, Gajjar A, Dave B, Maheshwari K, Renukuntla B, **Boddu SHS**. Analytical Methods for Quantification of Non-Steroidal Anti-Inflammatory Drugs in Pharmaceutical and Biological Samples: An Overview of Developments in the Last Decade. *Arabian Journal of Chemistry*. 2023 Nov 8:105446.
- Annaji M, Mita N, Heard J, Kang X, Poudel I, Fasina O, Baskaran P, **Boddu SHS**, Tiwari AK, Chen P, Lyman CC. 3D-Printed Capsaicin-Loaded Injectable Implants for Targeted Delivery in Obese Patients. *AAPS PharmSciTech*. 2023 Oct 2;24(7):200.
- **Boddu SHS**, Acharya D, Hala V, Jani H, Pande S, Patel C, Shahwan M, Jwala R, Ranch KM. An Update on Strategies to Deliver Protein and Peptide Drugs to the Eye. *ACS omega*. 2023 Sep 22;8(39):35470-98.
- Jacob S, Nair AB, **Boddu SHS**, Abuhijleh RK, Selvaraju K, Babu T, Gorain B, Shah J, Morsy MA. The emerging role of lipid nanosystems and nanomicelles in liver diseases. *European Review for Medical & Pharmacological Sciences*. 2023 Sep 15;27(18).
- Neupane R, **Boddu SHS**, Al-Tabakha MM, Jacob S, Babu RJ, Tiwari AK. Percutaneous absorption and Skin accumulation of Lorazepam-Diphenhydramine-Haloperidol Carbopol gel in Porcine Ear Skin. *AAPS PharmSciTech*. 2023 Sep 12;24(7):183.
- Parikh PK, Parikh NH, Mahalakshmi B, Ranch KM, **Boddu SHS**, Babu RJ, Tiwari AK. Developments in Small Molecule Antiviral Drugs against Hepatitis B and C Viruses: FDA Approved Therapies and New Drugs in Clinical Trials. *Arabian Journal of Chemistry*. 2023 May 19:105013.
- Khadela A, Postwala H, Rana D, Dave H, Ranch K, **Boddu SHS**. A review of recent advances in the novel therapeutic targets and immunotherapy for lung cancer. *Medical Oncology*. 2023 Apr 18;40(5):152.
- Patel C, Thakur K, Shagond L, Acharya S, Ranch K, **Boddu SHS**. Effect of Shorea robusta resin extract in 3-nitropropionic acid-induced Huntington's disease symptoms in Sprague-Dawley rats. *Research in Pharmaceutical Sciences*. 2023 May 1;18(3):303-16.
- Renukuntla J, Peterson-Sockwell S, Clark BA, Godage NH, Gionfriddo E, Bolla PK, **Boddu SHS**. Design and Preclinical Evaluation of Nicotine–Stearic Acid Conjugate-Loaded Solid Lipid Nanoparticles for Transdermal Delivery: A Technical Note. *Pharmaceutics*. 2023 Mar 23;15(4):1043.
- Al Saqr A, Annaji M, Poudel I, Aldawsari MF, Alrbyawi H, Mita N, Dhanasekaran M, **Boddu SHS**, Neupane R, Tiwari AK, Babu RJ. Topical Delivery of Diacetyl Boldine in a Microemulsion Formulation for Chemoprotection against Melanoma. *Pharmaceutics*. 2023 Mar 10;15(3):901.
- Patel C, Pande S, Sagathia V, Ranch K, Beladiya J, **Boddu SHS**, Jacob S, Al-Tabakha MM, Hassan N, Shahwan M. Nanocarriers for the Delivery of Neuroprotective Agents in the Treatment of Ocular Neurodegenerative Diseases. *Pharmaceutics*. 2023 Mar 3;15(3):837.
- Palandurkar K, Bhandre R, **Boddu SHS**, Harde M, Lakade S, Kandekar U, Waghmare P. Quality risk assessment and DoE–Practiced validated stability-indicating chromatographic method for quantification of Rivaroxaban in bulk and tablet dosage form. *Acta Chromatographica*. 2023 Jan 20;35(1):10-20.



- Garapati C, **Boddu SHS**, Jacob S, Ranch KM, Patel C, Babu RJ, Tiwari AK, Yasin H. Photodynamic Therapy: A Special Emphasis on Nanocarrier-mediated Delivery of Photosensitizers in Antimicrobial Therapy. *Arabian Journal of Chemistry*. 2023 Jan 16:104583.
- Khan ZG, Patil MR, Nangare SN, Patil AG, **Boddu SHS**, Tade RS, Patil PO. Surface nanoarchitected metal–organic frameworks-based sensor for reduced glutathione sensing: A review. *Journal of Nanostructure in Chemistry*. 2022 Dec;12(6):1053-74.
- Balaji S, Neupane R, Malla S, Khupse R, Amawi H, Kumari S, Tukaramrao DB, Chattopadhyay S, Ashby Jr CR, **Boddu SHS**, et al, IND-2, a Quinoline Derivative, Inhibits the Proliferation of Prostate Cancer Cells by Inducing Oxidative Stress, Apoptosis and Inhibiting Topoisomerase II, 2022, *Life* 12 (11), 1879
- Thakur CK, Neupane R, Karthikeyan C, Ashby Jr CR, Babu RJ, **Boddu SHS**, et al., Lysinated Multiwalled Carbon Nanotubes with Carbohydrate Ligands as an Effective Nanocarrier for Targeted Doxorubicin Delivery to Breast Cancer Cells, *Molecules*, 2022, 27 (21), 7461
- Renukuntla J, Palakurthi SS, Bolla PK, Clark BA, **Boddu SHS**, Manda P, et al. Advances in In-vitro bioequivalence testing methods for complex ophthalmic generic products, *International Journal of Pharmaceutics*, 2022, 122209
- Abou-Dahech M, **Boddu SHS**, Bachu RD, Babu RJ, Shahwan M, A Mini-Review on Limitations Associated with UV Filters, *Arabian Journal of Chemistry*, 2022, 104212
- Patel C, Shukla P, Pande S, Punamiya R, Ranch K, **Boddu SHS**, Acute and sub-acute toxicity study of anti-obesity herbal granules in Sprague Dawley rats, *Brazilian Journal of Biology*, 2022, 84
- Almarghalani DA, **Boddu SHS**, Ali M, Kondaka A, Ta D, Shah RA, Small interfering RNAs based therapies for intracerebral hemorrhage: challenges and progress in drug delivery systems, *Neural Regeneration Research*, 2022, 17 (8), 1717
- Patel C, Shahgond L, Acharya S, **Boddu SHS**, Ranch K, Protective effect of probiotics and ascorbic acid on bile duct ligation-induced chronic hepatic encephalopathy in rats, *Research in Pharmaceutical Sciences*, 2022, 17 (4), 445-456
- Kumari S, Maddeboina K, Bachu RD, **Boddu SHS**, Trippier PC, Tiwari AK, Pivotal role of nitrogen heterocycles in Alzheimer's disease drug discovery, *Drug Discovery Today*, 2022 Jul 19;27(10):103322.
- Alrbyawi H, Poudel I, Annaji M, **Boddu SHS**, Arnold RD, Tiwari AK, pH-Sensitive Liposomes for Enhanced Cellular Uptake and Cytotoxicity of Daunorubicin in Melanoma (B16-BL6) Cell Lines, *Pharmaceutics*. 2022, 14 (6), 1128
- Khan ZG, Patil MR, Nangare SN, Patil AG, **Boddu SHS**, Tade RS, Patil PO. Surface nanoarchitected metal–organic frameworks-based sensor for reduced glutathione sensing: a review. *Journal of Nanostructure in Chemistry*. 2022 Mar 2:1-22.
- Jacob S, Nair AB, Shah J, Gupta S, **Boddu SHS**, Sreeharsha N, Joseph A, Shinu P, Morsy MA. Lipid Nanoparticles as a Promising Drug Delivery Carrier for Topical Ocular Therapy; An Overview on Recent Advances. *Pharmaceutics*. 2022 Feb 27;14(3):533.
- Shirbhate E, Veerasamy R, **Boddu SHS**, Tiwari AK, Rajak H. Histone deacetylase inhibitor-based oncolytic virotherapy: a promising strategy for cancer treatment. *Drug Discovery Today*. 2022 Feb 17.
- Palandurkar K, Bhandre R, **Boddu SHS**, Harde M, Lakade S, Kandekar U, Waghmare P. Quality risk assessment and DoE–Practiced validated stability-indicating chromatographic method for quantification of Rivaroxaban in bulk and tablet dosage form. *Acta Chromatographica*. 2022 Jan 11.
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- Al Saqr A, Annaji M, Poudel I, Rangari S, **Boddu SHS**, Tiwari AK, Babu RJ. Niosomal formulation of hydroxytyrosol, a polyphenolic antioxidant, for enhancing transdermal delivery across human cadaver skin. *Pharmaceutical Development and Technology*. 2022 Jan 3:1-26.
- Alrbyawi H, **Boddu SHS**, Poudel I, Annaji M, Mita N, Arnold RD, Tiwari AK, Babu RJ. Cardiolipin for Enhanced Cellular Uptake and Cytotoxicity of Thermosensitive Liposome-Encapsulated Daunorubicin toward Breast Cancer Cell Lines. *International Journal of Molecular Sciences*. 2022 Oct 4;23(19):11763.
- Patel Z, Gharat SA, Al-Tabakha MM, Ashames A, **Boddu SHS**, Momin MM. Recent Advancements in Electrospun Nanofibers for Wound Healing: Polymers, Clinical and Regulatory Perspective. *Critical Reviews™ in Therapeutic Drug Carrier Systems*. 2022;39(4).
- Bachu RD, Dass A, To E, **Boddu SHS**, Jung R, Churchwell MD, Physical compatibility, antimicrobial activity, and stability of cefazolin combined with gentamicin or ethanol in sodium citrate as a catheter lock solution, 2021, 13, 3, 298-304.
- **Boddu SHS**, Bhargav P, Karla PK, Jacob S, Adatiya MD, Dhameliya TM, Polyamide/Poly (Amino Acid) Polymers for Drug Delivery, *Journal of Functional Biomaterials*, 2021, 12 (4), 58.
- Jacob S, Nair AB, **Boddu SHS**, Gorain B, Sreeharsha N, Shah J, An Updated Overview of the Emerging Role of Patch and Film-Based Buccal Delivery Systems, *Pharmaceutics*, 2021, 13 (8), 1206
- Neupane R, **Boddu SHS**, Abou-Dahech MS, Bachu RD, Terrero D, Transdermal Delivery of Chemotherapeutics: Strategies, Requirements, and Opportunities, *Pharmaceutics*, 2021, 13 (7), 960.
- Nangare SN, Sangale P, Patil AG, **Boddu SHS**, Deshmuk PK, Jadhav NR, Tade RS, Patil DR, Pandey A, Mutalik S, Patel JK. Surface architected metal organic frameworks-based biosensor for ultrasensitive detection of uric acid: Recent advancement and future perspectives. *Microchemical Journal*. 2021 Jun 30:106567.
- Annaji M, Poudel I, **Boddu SHS**, Arnold RD, Tiwari AK, Babu RJ Resveratrol-loaded nanomedicines for cancer applications, *Cancer Reports*, 2021, e1353
- Amawi H, Aljabali A, **Boddu SHS** et al., The use of zebrafish model in prostate cancer therapeutic development and discovery. *Cancer Chemother Pharmacol*. 2021 Jan 3.
- Peeters MJ, Cor MK, **Boddu SHS**, Nesamony J, Validation Evidence from using Generalizability Theory in a Basic-Science Course: Reliability of Course-Grades from Multiple Examinations, *Innovations in Pharmacy*, 2021, 12 (1)
- **Boddu SHS**, Kumari Sneha, A Short Review on the Intranasal Delivery of Diazepam for Treating Acute Repetitive Seizures, *Pharmaceutics*, 2020, 12 (12), 1167.
- **Boddu SHS**, Kumari Sneha, Design and In Vitro Evaluation of Intranasal Diazepam for Treating Acute Repetitive Seizures: a Technical Note, *Journal of Pharmaceutical Innovation*, 2020, 1-11
- **Boddu SHS**, Tukaramrao DB, Al-Tabakha, MM, Ashames A, Neupane R, Babu RJ, Renukuntla J. and Tiwari AK, Evaluation of Cytotoxicity and Taste-Masking Effect of Selected Flavors on Dental Lidocaine HCl Injection, (2020), 13(11) 353.
- Natesan S, **Boddu SHS**, Krishnaswami V, Shahwan M. The Role of Nano-ophthalmology in Treating Dry Eye Disease, *Pharmaceutical Nanotechnology* 8 (4), 258-289.
- Godage NH, Cudjoe E, Neupane R, **Boddu SHS**, Bolla PK, Renukuntla J, Gionfriddo E. Biocompatible SPME fibers for direct monitoring of nicotine and its metabolites at ultra-trace concentration in rabbit plasma following the application of smoke cessation formulations. *Journal of Chromatography A*. 2020 Jun 11:461333.
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- Dahal A, Neupane R, **Boddu SHS**, Renukuntla J, Khupse R, Dudley R. Percutaneous Absorption of Lorazepam, Diphenhydramine Hydrochloride, and Haloperidol from ABH Gel. *International journal of pharmaceutical compounding*. 2020;24(2):168.
- Neupane R, **Boddu SHS**, Renukuntla J, Babu RJ, Tiwari AK. Alternatives to Biological Skin in Permeation Studies: Current Trends and Possibilities. *Pharmaceutics*. 2020 Feb;12(2):152.
- Namdeo AG, **Boddu SHS**, Amawi H, Ashby Jr CR, Tukaramrao DB, Trivedi P, Babu RJ, Tiwari AK. Flavonoids as Multi-Target Compounds: A Special Emphasis on their Potential as Chemo-adjuvants in Cancer Therapy. *Current Pharmaceutical Design*. 2020 Apr 1;26(15):1712-28.
- Kalhapure RS, Bolla PK, **Boddu SHS**, Renukuntla J, Evaluation of Oleic Acid and Polyethylene Glycol Monomethyl Ether Conjugate (PEGylated Oleic Acid) as a Solubility Enhancer of Furosemide, *Processes*, 2019: 7 (8), 520
- Amawi H, Hussein N, **Boddu SHS**, Karthikeyan C, Williams FE, Ashby Jr CR, Dayanidhi R, Trivedi P, Tiwari A. The Novel Thienopyrimidine Derivative, RP-010, Produces Its Efficacy in Prostate Cancer Cells by Inducing the Fragmentation of β -catenin, *Cancers*, 2019: 11.5, 711.
- Rodriguez VA, Bolla PK, Kalhapure RS, **Boddu SHS**, Neupane R, Franco J, Renukuntla J. Preparation and Characterization of Furosemide-Silver Complex Loaded Chitosan Nanoparticles. *Processes*. 2019 Apr;7(4):206.
- Bahl D, Daftardar S, Bachu RD, **Boddu SHS**, Altorok N, Kahaleh B. Evaluation of Topical Econazole Nitrate Formulations with Potential for Treating Raynaud's Phenomenon, *Pharmaceutical development and technology* (2019):24, 6, 689-699.
- Daftardar S, Neupane R, **Boddu SHS**, Renukuntla J, Tiwari A. Advances in Ultrasound Mediated Transdermal Drug Delivery. *Current pharmaceutical design* (2019), 25, 4, 413-423
- Bhattarai R, Bachu R, **Boddu SHS**, Bhaduri, S. Biomedical Applications of Electrospun Nanofibers: Drug and Nanoparticle Delivery *Pharmaceutics*, 11(1), 5
- Neupane, R., Gaudana, R., **Boddu, SHS**. Imaging Techniques in the Diagnosis and Management of Ocular Tumors: Prospects and Challenges. *The AAPS journal*, 2018, 20(6), 97.
- Adhikari S, Daftardar S, Fratev F, Rivera M, Sirimulla S, Alexander K, **Boddu SHS**. Elucidation of the Orientation of Selected Drugs with 2-Hydroxypropyl- β -Cyclodextrin Using 2D-NMR Spectroscopy and Molecular Modelling. *International journal of pharmaceutics*. 2018 May 7.
- Kalhapure RS, Bolla P, Dominguez DC, Dahal A, **Boddu SHS**, Renukuntla J, Furosemide-silver complex nanosuspension: preparation and evaluation of antibacterial activity, *IET Nanobiotechnology*. 2018 Apr 6.
- Cruz KCE, Churchwell MD, Mauro VF, **Boddu SHS**. Physical compatibility of levetiracetam injection with heparin, dobutamine, and dopamine. *Am J Health Syst Pharm.*, 2018, 75(8):510-512.
- Bachu RD, Chowdhury P, Al-Saedi ZH, Karla PK, **Boddu SHS**. Ocular Drug Delivery Barriers—Role of Nanocarriers in the Treatment of Anterior Segment Ocular Diseases. *Pharmaceutics*, 2018, 10(1), p.28.
- Bachu RD, Stepanski M, Alzhrani R, Jung R, **Boddu SHS**. Development and Evaluation of a Novel Microemulsion of Dexamethasone and Tobramycin for Topical Ocular Administration, *Journal of Ocular Pharmacology and Therapeutics*. 2018, 34(4), 312-324
- Wei Y, Yang JW, **Boddu SHS**, Jung R, Churchwell MD. Compatibility, Stability, and Efficacy of Vancomycin Combined With Gentamicin or Ethanol in Sodium Citrate as a Catheter Lock Solution. *Hosp Pharm*. 2017 Nov;52(10):685-690.



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- Bhattarai RS, Das A, Alzhrani RM, Kang D, Bhaduri SB, **Boddu SHS**, Comparison of Electrospun and Solvent Cast Polylactic acid (PLA)/Poly(vinyl alcohol) (PVA) Inserts as Potential Ocular Drug Delivery Vehicles, *Materials Science and Engineering: C* 77 (2017): 895-903
- Alsaab H, Alzhrani RM, Kesharwani P, Sau S, **Boddu SHS**, Iyer AK, (2017). Folate Decorated Nanomicelles Loaded with a Potent Curcumin Analogue for Targeting Retinoblastoma. *Pharmaceutics*, 2017, 9(2), 15.
- Frank MI, **Boddu SHS**, Mauro VF, Churchwell MD. Physical compatibility of valproate sodium injection with dobutamine and dopamine. *American Journal of Health-System Pharmacy.* 2017, 74(5):280-281.
- Alsaab H, Bonam SP, Bahl D, Chowdhury P, Alexander K, **Boddu SHS**. Organogels in Drug Delivery: A special emphasis on Pluronic Lecithin Organogels. *J Pharm Pharm Sci.* 2016 Apr-Jun;19(2):252-73.
- Al-Saedi Z, Zimmerman A, Bachu RD, Dey S, Shah Z, Baugh R, **Boddu SHS**. Dry Eye Disease: Present Challenges in the Management and Future Trends. *Current pharmaceutical design. Curr Pharm Des.* 2016;22(28):4470-90
- Al-Saedi ZH, Alzhrani RM, **Boddu SHS**. Formulation and In Vitro Evaluation of Cyclosporine-A Inserts Prepared Using Hydroxypropyl Methylcellulose for Treating Dry Eye Disease. *Journal of Ocular Pharmacology and Therapeutics. J Ocul Pharmacol Ther.* 2016 Sep;32(7):451-62.
- Peeters Michael, **Boddu SHS**, Assessing Development in Critical Thinking: One Institution's Experience, *Currents in Pharmacy Teaching and Learning*, 8(3), 271-278.
- Alsaab H, Alzhrani RM, **Boddu SHS**. Evaluation of the Percutaneous Absorption of Chlorpromazine from PLO Gels across Porcine Ear and Human Abdominal Skin, *Drug Dev Ind Pharm.* 2016 Aug;42(8):1258-66.

Courses Taught (Last five years)

▪ Spring, 2016	PHPR 3080 PPD 2 Professional Practice Development 2*	4
▪ Spring, 2016	PHPR 5770 Advanced Drug Delivery Systems-I	3
▪ Fall, 2016	PHPR 3070 PPD 1 Professional Practice Development 1*	4
▪ Fall, 2016	PHPR 6950 Seminar in Industrial Pharmacy	1
▪ Spring, 2017	PHPR 3080 PPD 2 Professional Practice Development 2*	4
▪ Spring, 2017	PHPR 5770 Advanced Drug Delivery Systems-I	3
▪ Spring, 2017	PHPR 6950 Seminar in Industrial Pharmacy	1
▪ Spring, 2017	PHPR 6850 Product development lab	2
▪ Fall, 2017	PHPR 3070 PPD 1 Professional Practice Development 1*	4
▪ Fall, 2017	PHPR 5720 Pharmaceutical Rate Processes	3
▪ Fall, 2017	PHPR 6950 Seminar in Industrial Pharmacy	1
▪ Fall, 2017	PHPR 5710 Selected Topics - Pharmaceutical Tech	2
▪ Spring, 2018	PHPR 3080 PPD 2 Professional Practice Development 2*	4
▪ Spring, 2018	PHPR6980 Special Topics	1
▪ Spring, 2018	PHPR 6860 Advanced drug delivery lab	2
▪ Fall, 2018	Biopharmaceutics and Pharmacokinetics-I	3
▪ Fall, 2018	Clinical Pharmacokinetics (MSc. Pharm)	2



▪ Spring, 2019	Physical Pharmacy-I	3
▪ Spring, 2019	Pharmaceutical Dosage forms II	2
▪ Fall, 2019	Biopharmaceutics and Pharmacokinetics I (PHA311)	3
▪ Fall, 2019	Clinical Pharmacokinetics (701601)	2
▪ Spring, 2020	Physical Pharmacy (PHA102, PHA112)	4
▪ Summer, 2020	Pharmaceutical Technology training (PHA414)	3
▪ Fall, 2020	Clinical Pharmacokinetics (PHA524)	2
▪ Fall, 2020	Biopharmaceutics and Pharmacokinetics I (PHA311)	3
▪ Spring, 2021	Physical Pharmacy (PHA102, PHA212)	4
▪ Spring, 2021	Biopharmaceutics and Pharmacokinetics II (PHA312)	3
▪ Fall, 2021	Clinical Pharmacokinetics (PHA524)	2
▪ Fall, 2021	Biopharmaceutics and Pharmacokinetics I (PHA302)	3
▪ Spring, 2022	Physical Pharmacy (PHA102)	4
▪ Spring, 2022	Biopharmaceutics and Pharmacokinetics II (PHA303)	3
▪ Fall, 2022	Pharmaceutical Technology (PHA300)	3
▪ Fall, 2022	Biopharmaceutics and Pharmacokinetics I (PHA302)	3
▪ Spring, 2023	Biopharmaceutics and Pharmacokinetics II (PHA303)	3
▪ Spring, 2023	Pharmaceutical Biotechnology (PHA360)	3
▪ Fall, 2023	Biopharmaceutics and Pharmacokinetics I (PHA302)	3
▪ Fall, 2023	Pharmaceutics III (PHA301)	3
▪ Spring, 2024	Biopharmaceutics and Pharmacokinetics II (PHA303)	3
▪ Spring, 2024	Pharmaceutical Biotechnology (PHA360)	3
▪ Fall, 2024	Biopharmaceutics and Pharmacokinetics I (PHA302)	3
▪ Fall, 2024	Pharmaceutics III (PHA301)	3

Professional Experience

- Professor, Ajman University College of Pharmacy and Health Sciences, Ajman, UAE, 2022-present
- Associate Professor, Ajman University College of Pharmacy and Health Sciences, Ajman, UAE, 2018-present
- Director, Industrial Pharmacy Division, University of Toledo College of Pharmacy and Pharmaceutical Sciences Toledo, OH, USA, 2016-2018
- Associate Professor, University of Toledo College of Pharmacy and Pharmaceutical Sciences Toledo, OH, USA, 2016-2018
- Assistant Professor University of Toledo College of Pharmacy and Pharmaceutical Sciences, Toledo, OH, USA, 2011-2016
- Faculty Advisor for AAPS-University of Toledo student chapter, 2016-2018
- Student Representative for Excipients Focus Group, 2010-11
- Support staff for the journal of Clinical Research and Regulatory Affairs, 2009
- Chair of AAPS-UMKC Student Chapter, School of Pharmacy, 2008-09
- Chair-elect of AAPS-UMKC Student Chapter, School of Pharmacy, 2007-2008
- Member of Scientific Sessions, Resumes and Interviews committee-PGSRM, 2007



- Secretary for PSGSA-UMKC Student Chapter, School of Pharmacy, 2006-07
- Research Assistant School of Pharmacy, University of Missouri-Kansas City Kansas City, MO 2006-2010
- Research Associate Wockhardt Research Center, Chikalthana, Aurangabad, Maharashtra, India, 2005-2006
- Graduate Assistant NDMVP Samaj's College of Pharmacy Nashik Maharashtra, India, 2003-2005
- Lecturer (Part-time) (Physical Pharmacy & Pharmaceutical Dosage forms) S.N.D. College of Pharmacy University of Pune, Yeola Maharashtra, India 2005 -2006

Committees Work

- Member of the AU College Research Committee (2019-present)
- Head of the Assessment and Continuous Improvement Committee (ACIC). (2019-present)
- Ad hoc committee member for evaluating a faculty application for the Best Teacher, Award, Best Researcher Award and Best Service Award. (2019-present)
- Ad hoc committee member for Exit exam committee. (2019-2020)
- Ad hoc committee member for abstract screening committee for AU Student's Research Day-(2020-2023).
- Ad hoc committee member of International Conference of Pharmacy and Medicine-2019 on organizing committee, moderator and speaker.
- Worked on ACPE interim report.

Honors and Awards

- Top 2% of global scientists in Stanford University's 2024 list
- AU Honor's Best Researcher Award (2022-2023)
- International Conference of Pharmacy and Medicine (organizing committee), Ajman University-2019
- Co-moderator of roundtable session: Microdialysis vs Imaging: Us vs Them, or United We Stand? 2015 AAPS annual meeting in Orlando, FL, Oct 25-Oct 29
- UMKC-Vice Chancellor for Student Affairs and Enrollment Management Honor Recipient, Fall-2010
- UMKC-Chancellor's Doctoral Fellowship, (2008-10)
- UMKC-Chancellor Non-Resident award, (2006-10)
- Best poster award for Research Day 2010 at UMKC
- AAPS-UMKC Best seminar speaker award for Fall-2008
- 24th Annual Achievers of Excellence award at UMKC, 2006

Funded Grants

- Collaborating Investigator, "Novel Trans-Scleral Delivery Strategy using Bimatoprost Nanoparticles given Subconjunctivally for the Treatment of Glaucoma", St. Luke's Hospital Foundation, \$24,600.00, 11/01/2009 – 10/31/2010, , Status: Completed.



- Co- Investigator, “Preclinical Evaluation of Photodynamic Therapy for the Treatment of Chronic Sinusitis,” The Translational Research Stimulation Award program, Principal Investigator: Reginald Baugh, MD, Professor of Surgery, Date: 05/01/2012 – 05/01/2013, Amount: \$25,000.00, Status: Completed.
- Co-Investigator, “Waters Academic Grant Program”, Duration: 10/30/2012 - 10/29/2014
- Principal Investigator, “Preparation and Evaluation of a Pluronic Lecithin Organogel Containing Ricinoleic acid for the Transdermal Delivery of Ketoprofen”, International Academy of Compounding Pharmacists”, Date: 02/01/2013 - 02/01/2014, Amount: \$ 9,980, Status: Completed.
- Principal Investigator, “To study the dermal absorption of cosmetic products across fresh human tissue samples”, L’Oréal Collaborative Project, Date of submission: 06/27/2014. Amount: \$12,483
- Principal Investigator, “Electrospun Ophthalmic Inserts for Extended Delivery of Bimatoprost in Glaucoma Therapy”, deArce-Koch Memorial Endowment Fund in Support of Medical Research and Development, Date: 05/01/2015 - 05/01/2016, Amount: \$10,000, Status: Completed.
- Principal Investigator, Solubility and Stability of Diazepam in Selected Solvent, Total care pharmacy, Date: 12/12/2016, Amount: \$6,500, Status: Completed.
- Principal Investigator, In vitro release of model drugs from silicone–based elastomers and elastomer gels, Wacker Chemical Corporation, Date: 12/12/2016, Amount: \$30,500, Status: Completed.
- Principal Investigator, Development and Characterization of Tanshinone IIA Microparticles for Sustained Therapy in Age Related Macular Degeneration, University of Toledo, Date: 06/12/2017, Amount: \$5000.
- Principal Investigator, Development and validation of an SPME-GC-MS method for determination of fluasterone in rabbit plasma, University of Texas at El Paso, Date: 7/1/18-8/31/18, Amount: \$8000, Status: Completed.
- Principal Investigator, Development and characterization of nicotine loaded solid lipid nanoparticle hydrogels, Sponsor: Paso del Norte Health Foundation, Prime Grantee: The University of Texas at El Paso, 1/1/2018 to 2/28/2019, Amount: \$11000, Status: Completed.
- Principal Investigator, Taste Masking of Injectable Lidocaine HCl Formulation for Dental Procedures”, Interdisciplinary Research Grant, Funded by: Ajman University, Date: October 1st, 2019 (Funded), 10/2109-09/2020, Amount: AED 49,760, Status: Completed.
- Principal Investigator, Design and Characterization of an Improved Lidocaine HCl Formulation for Dental Procedures” Research contract grant, Funded by: Neocaine, LLC, USA, AED 440760.00 (Funded), 06/2020 -06/2022, Status: Completed.
- Principal Investigator, Preliminary Evaluation of Thermo-responsive gels Containing Nanoparticles loaded with Nicotine-Stearic acid Conjugate for Intranasal Use in Smoking Cessation, Interdisciplinary Research Grant, Funded by: Ajman University, Date: October 1st, 2021, Amount: AED 32,500, Status: Completed.
- Co-Investigator, Evaluation of whole grape-drug pharmacokinetic interactions and toxicity, Interdisciplinary Research Grant, Funded by: Ajman University, Date: October 1st, 2021, Amount: AED 50,000, Status: Completed.
- Principal Investigator, Nanoparticle Laden Contact Lens for Controlled Delivery of Acetazolamide in the Treatment of Glaucoma, Interdisciplinary Research Grant, Funded by: Ajman University, Date: October 1st, 2022, Amount: AED 20,000, Status: Completed.
- Principal Investigator, Development and Characterization of Novel Multilayer Nanofiber Insert Loaded With Dexamethasone For Treating Dry Eye Disease, Interdisciplinary Research Grant, Funded by: Ajman University, Date: October 1st, 2022, Amount: AED 45,700, Status: Completed.
- Principal Investigator, Nanoparticle Laden Contact Lens for Controlled Delivery of Acetazolamide in the Treatment of Glaucoma, Internal Research Grant, funded by: Ajman University, Date: October 1st, 2022, Amount: AED 20,000, Status: Completed



- Principal Investigator, Design and characterization of S-SNEDDS for AA108600 and AA150030 drug molecules for enhancing oral bioavailability, Date: September 1st, 2024, Amount: AED 208,672.31, Status: Ongoing

Patents and Books

- Mainde C, Nagori RN, Boddu SHS, Aqueous Oral Formulations of Risperidone, Patent Publication Number: WO/2007/138462, Publication Date: 06.12.2007
- Kahaleh B, Altorok N, Boddu SHS, Nagaraja V, Treatment of raynaud's phenomenon by inhibition of transient receptor potential melastatin-8 (trpm-8), United States patent US 11,612,560. 2023 Mar 28.
- Narang A, Boddu SHS. (2015) Excipient Applications in Formulation Design and Drug Delivery, Published by Springer International, Pages 681.
- Derle DV, Boddu SHS. (2010). Essentials of Physical Pharmacy. Second edition, Pharma Book Syndicate: India