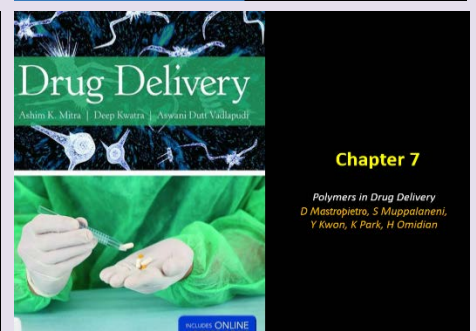
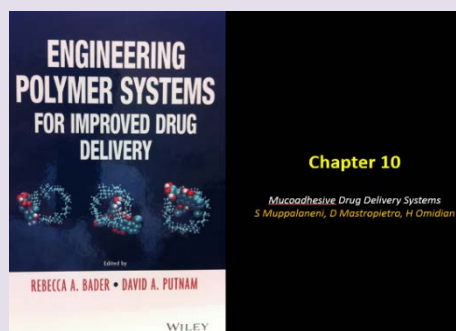
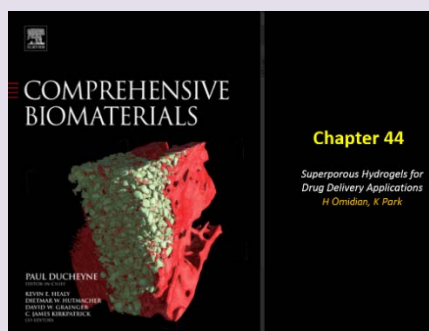
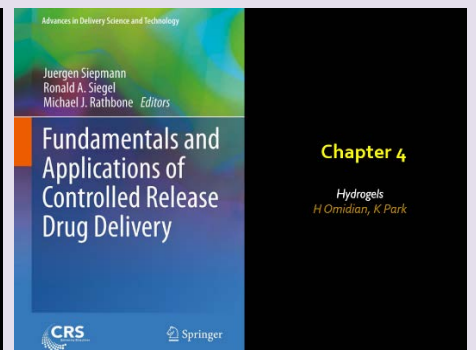
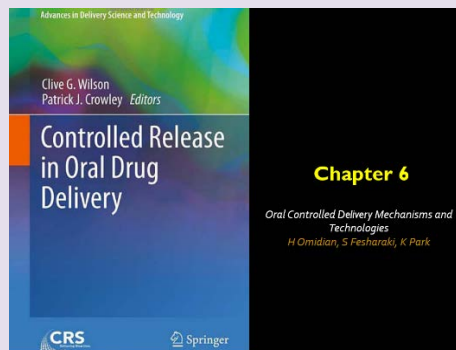
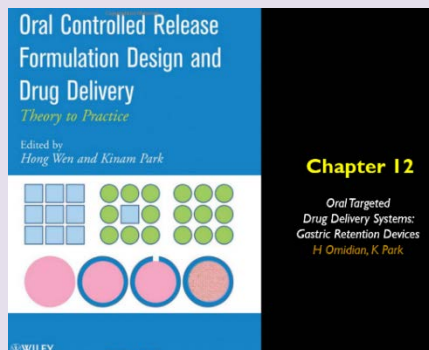
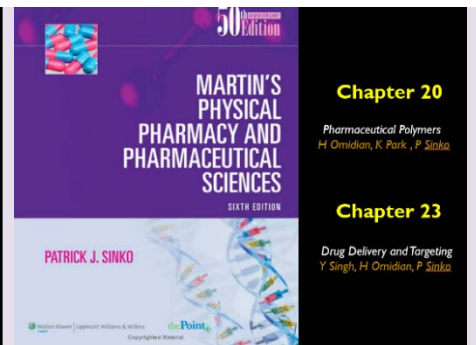
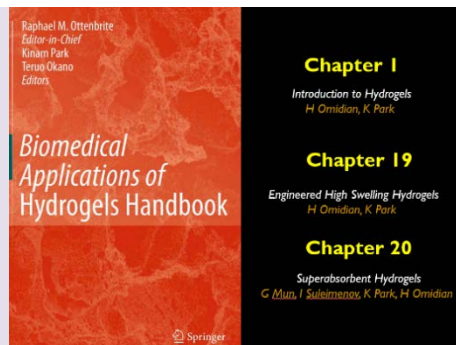
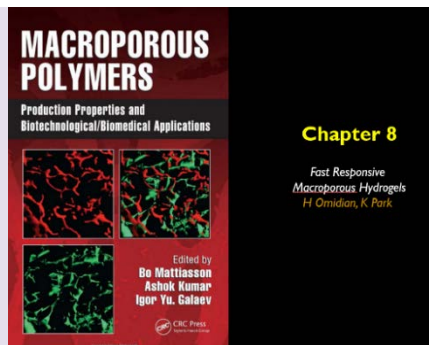


Polymers, Hydrogels, Drug Delivery Technologies



- Lab Members
- Recent Graduates
- Current PhD Students
- PharmD Research Assistants
- Undergraduate Interns
- Current Research
- Recent Inventions
- Recent Publications
- Recent Book Chapters
- Recent Conference Presentations

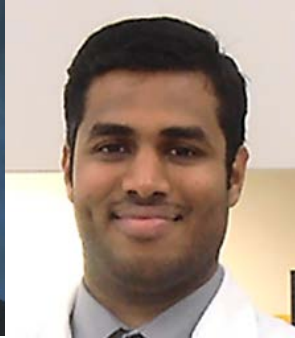
Biography and CV
Google Scholar
LinkedIn



LAB MEMBERS



David Mastropietro
2010-2015



Srinath Muppalaneni
2011-2016



Yogesh Joshi
2012-2017



Rand Ahmad
2015-Present



Arghavan Kariman
2013-2016



Theodore Elisme
2013-2014



Alborz Omidian
Summer 2015



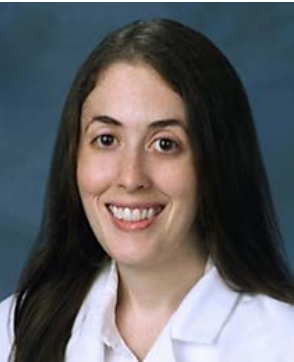
Jessica Santana de Sa
Summer 2015



Sampa Mondal
2015-2017



Satya Vempati
2016-2017



Christina Crum
2016-2017



Riann Forbes
2016-Present



Breana Caturano
2017-Present



Samaneh Alaei
2017-Present

Dr. Omidian received his BSc (Tehran Polytechnic, Tehran, Iran, 1987), MSc (Tehran Polytechnic, Tehran, Iran, 1990), and PhD (Brunel University, UK, London, 1997) in Chemical Engineering (majored in Polymer Science and Engineering). From 1987 to 2000, he served as research scientist, Assistant Professor and Department Chair at Iran Polymer Institute. In 2001, he pursued postdoctoral fellowship in Prof. Kinam Park's lab at Purdue University. From 2002 to 2007, Dr. Omidian worked at Kos Pharmaceuticals and Abbott Laboratories as a senior research scientist, research manager and principal scientist. He is currently a Professor in the Department of Pharmaceutical Sciences, and an Associate Editor of the Journal of Bioactive and Compatible Polymers. He has 3 issued US patents, over 30 US and world patent applications, 28 invention disclosures, 83 publications, 150 presentations, 29 book chapters and books, 14 grant proposals, 7 graduates, and 2 current PhD students.

RECENT GRADUATES

Dr. David Mastropietro received his BS in Pharmacy from Massachusetts College of Pharmacy in 1999. He has been practicing pharmaceutical care in both community and hospital settings for over 17 years. After first studying Industrial Pharmacy and Pharmaceutics at Purdue University, David obtained his PhD in Pharmaceutics from Nova Southeastern University. Dr. Mastropietro is currently an Assistant Professor at NSU's College of Pharmacy, and participated in 7 patent applications, 10 invention disclosures, 24 publications, 61 presentations, 4 grant proposals, and 3 book chapters.

Dr. Srinath Muppalaneni received his BSc in Pharmacy from Andhra University (India, 2008), and MSc in Pharmaceutical Science from Campbell University (USA, 2010). He has worked as a formulation research associate at Campbell University Pharmacy Institute for three years. In 2016, Srinath obtained his PhD in Pharmaceutics from Nova Southeastern University and is currently a Senior Formulation Scientist at Sancilio & Co. (Florida, United States). Srinath participated in 2 patent applications, 6 invention disclosures, 6 publications, 42 presentations, 2 book chapters, and 1 grant proposal.

Dr. Yogesh Joshi earned a BPharm (2005) and MPharm (2008) in Pharmaceutics from Dr. BAM University (India). He held a research associate position at pharmaceutical industries in India for two years working at different stages of drug development. In 2017, Yogesh obtained his PhD in Pharmaceutics from Nova Southeastern University and is currently a Research Scientist at Unipharma LLC (Florida, United States). Yogesh participated in 2 patent applications, 5 invention disclosures, 3 publications, 28 presentations, and 1 grant proposal.

CURRENT PHD STUDENTS

Rand obtained her BSc in Pharmacy (2002) and MSc in Pharmacology (2006) from Jordan University of Science and Technology. She has worked in the Research & Development and Regulatory Affairs Departments for eight years at different pharmaceutical companies in Jordan. Awarded with full scholarship, Rand joined our PhD program in 2015, and her research is focused on developing advanced abuse-deterrent pharmaceutical dosage forms. Rand has so far participated in 1 patent application, 4 invention disclosures, 1 publication, 1 book chapter, 17 presentations, and 1 grant proposal.

Samaneh received her PharmD from Tehran University of Medical Sciences in Iran in 2014 while ranked 3rd in her class. After graduation, she spent 3 years as a research scientist and then as an oral dosage forms R&D manager in several pharmaceutical companies in Iran specialized in developing generic drugs. She was involved in the development and launching of several pharmaceutical products in the Iranian market. Awarded with full scholarship, Samaneh joined our PhD program in Drug Development track in 2017, and has so far participated in 6 poster presentations, 3 publications, and 1 book chapter.

PHARMD RESEARCH ASSISTANTS

Arghavan received her BSc in Biological Science and a minor in Mathematics from the University of Central Florida (USA, 2010). Arghavan joined our research lab in 2013 as a research assistant and obtained her PharmD degree in 2016. She has participated in 2 publications and 12 poster presentations. She also has won a research award before graduation. Arghavan is currently working retail in central pharmacy operations (CPO) implanting data and clinical reviews, ensuring patients health and monitoring their therapies.

Theodore received his BSc (1991, Florida Atlantic University), and MSc (1995, Florida International University) degrees in Chemistry, and has published several articles and presentations in the area of Organic Geochemistry. He spent a total of 16 years teaching in several schools of Miami-Dade and Broward counties. After a successful career as a public school teacher, Theodore decided to pursue his dream as a pharmacist. He is currently matriculating at Nova Southeastern University in the College of Pharmacy with an anticipated graduation in May 2018.

Sampa graduated from the University of Toronto in 2010 with BSc degree in Human Biology and Animal Physiology. She continued her education at the University of Central Florida where she earned a second BSc degree in Molecular and Microbiology in 2014. In addition to her studies, she worked as a laboratory technician at the Citrus Research and Education Center and a learning assistant at Valencia College. Sampa joined our research lab in 2015 as research assistant and is currently pursuing a Doctor of Pharmacy degree with an anticipated graduation in May 2018. While completing her pharmacy studies, Sampa continues to work as a pharmacy intern at Publix Pharmacy. Upon graduation, she will be pursuing PGY-1 pharmacy residency at Henry Ford Hospital. Sampa has thus far participated in 8 poster presentations.

Satya earned his Bachelor of pharmacy (2004) from A.U College of pharmacy, Vizag, A.P, India, Master of Pharmaceutics (2007) from K.V.S.R. Siddhartha College of pharmaceutical sciences, Vijayawada, India, and Master of Industrial Pharmacy (2011) from long Island University, Brooklyn, New York. Satya gained 4 years of experience in pharmaceutical Formulation & analytical research quality control laboratory, by working in generic companies Ricon Pharma, Denville, NJ and Novel labs, Somerset, NJ. Satya joined our lab in 2015, and currently pursuing a Doctor of Pharmacy degree with an anticipated graduation in May 2018. Satya has so far participated in 2 poster presentations.

Christina graduated from Florida International University in 2009 with a B.S. in Biological Sciences with Honors and a minor in Chemistry. She had completed her thesis as an Undergraduate Student Investigator in the Department of Human and Molecular Genetics. Christina had also worked as an undergraduate Academic Team Tutor and was a member of Phi Beta Kappa Honor Society. From 2009 to 2015, she worked for CVS as a Certified Pharmacy Technician, Inventory Specialist, and later Intern. At NSU, she is a member of Rho Chi Honor Society and currently holds a Treasurer position for the American Society of Consultant Pharmacists. Christina joined our research lab in 2016 as a research assistant, and is currently pursuing a Doctor of Pharmacy degree with an anticipated graduation in May 2018. She has so far participated in 7 poster presentations.

Breana received her Bachelor of the Arts in Chemistry at the University of Tampa in 2016. In addition to her studies at the University of Tampa, Breana worked as a Certified Pharmacy Technician at CVS pharmacy form 2014 to 2016. At her first year at NSU, she held the Class Secretary position. She is a member of American Pharmacists Association Academy of Student Pharmacists and currently holds the President-Elect position. Breana matriculated into a Master in Pharmaceutical Affairs program in 2016 at Nova Southeastern College of Pharmacy. She then bridged to the PharmD program and joined the lab in 2017. Breana is currently matriculating at Nova Southeastern College of Pharmacy pursuing a Doctor of Pharmacy degree with an anticipated graduation in 2021. She has so far participated in 2 poster presentations.

Riann is a graduate pharmacy dual admission student at Nova Southeastern University (NSU) where she also received her Bachelor of Science in Biology in May 2017. She has participated in research since high school and is currently a member in NSU's Chapter of American Pharmacist Association Academy of Student Pharmacists (APhA-ASP). She is currently working in our research lab as a research assistant intern and has so far participated in 5 presentations.

INTERNS

Alborz studied Biological Sciences and English Literature at the University of Chicago and graduated in 2017. He will be pursuing Doctor of Medicine at the New York Medical College in fall 2018. Alborz worked in the University of Miami, the Miller School of Medicine as an intern (summer 2014) and worked in our lab as research assistant intern over the summer of 2015. He also worked as research assistant in Gounari Lab at University of Chicago and as SCA6 Registry Coordinator in the University of Chicago Medicine. Alborz has participated in 4 publications, and 4 poster presentations.

Jessica was a participant in the new Brazil Scientific Mobility program. Through this program, she has been in the US for over one and a half years gaining experience in scientific research. She is currently a senior undergraduate student at Federal University of Pernambuco pursuing a Pharmacy degree with an anticipated graduation in 2017. Jessica worked in our lab as research assistant intern over the summer of 2015, and participated in 2 poster presentations.

CURRENT RESEARCH

- Prescription Drug Abuse
 - Abuse-Deterrent Formulations
 - Deterrent to abuse by insufflation
 - Deterrent to abuse by injection
 - Deterrent to abuse by multiple oral administrations
 - Deterrent to oral abuse assisted with alcohol
 - Abuse-Deterrent Technologies
 - Abuse-Deterrence Evaluation
- Controlled Drug Delivery
 - Gastric Retention Oral Delivery
- Pharmaceutical and Biomedical Polymers
 - Hydrogels
 - Alcolgels

RECENT INVENTIONS

1. [Collective Binding, Swelling, Gelling, and Clogging to Deter Drug Abuse:](#)
A US Provisional Patent Application, Inventors: H Omidian, Y Joshi, R Ahmad
2. [Compositions for Deterring Abuse of Pharmaceutical Products and Alcohol:](#)
Inventors: H Omidian, S Muppalaneni, Y Joshi, D Mastropietro
PCT/US16/58097 (Filed Oct 21, 2016); WO/2017/070462 (Filed Apr 27, 2017);
U.S. Patent Application 62/244637 (Filed Oct 21, 2015)
3. [Deterring Abuse of Pharmaceutical Products and Alcohol:](#)
Inventors: H Omidian, D Mastropietro, S Muppalaneni

PCT/2014/US54863 (Filed: 09-09-2014); WO2015035423 (Filed: 03-12-2015);
US Patent Application 14/917,368 (Filed: 03-08-2016)

4. [Abuse-Deterrent Pharmaceutical Compositions:](#)
Inventors: H Omidian, D Mastropietro
U.S. Provisional Patent Application 61/875,173 (Filed: 9/9/13)
5. [Abuse Deterrents in Pharmaceutical Compositions:](#)
Inventors: H Omidian, D Mastropietro
U.S. Provisional Patent Application 61/918,870 (Filed: 12/20/13)
6. [A Therapeutic Composition for Alcohol Cessation and Abuse:](#)
Inventors: H Omidian, D Mastropietro
U.S. Provisional Patent Application 61/918,879 (Filed: 12/20/13)
7. [Powerful Deterrent Agents for Abusable Medications:](#)
Inventors: H Omidian, D Mastropietro
U.S. Provisional Patent Application 61/918,890 (Filed: 12/20/13)
8. [An Aversive Super-Deterrent Agent for Abusable Medications:](#)
Inventors: D Mastropietro, H Omidian
U.S. Provisional Patent Application 61/919,443 (Filed: 12/20/13)

RECENT PUBLICATIONS

1. M Ashkani, K Kabiri, A Salimi, H Bouhendi, H Omidian: [Hybrid hydrogel based on pre-gelatinized starch modified with glycidyl-crosslinked microgel](#), *Iranian Polymer Journal*, 27(3), 183-192, 2018
2. N Moniri, K Kabiri, MJ Zohuriaan-Mehr, H Omidian, N Esmaeili: [Fine-Tuning of SAP Properties via Epoxy-Silane Surface Modification](#), *Polymers for Advanced Technologies*, 28, 1132-1147, 2017
3. S Shahi, MJ Zohuriaan-Mehr, H Omidian: [Antibacterial Superabsorbing Hydrogels with High Saline-Swelling Properties without Gel Blockage-Towards Ideal Superabsorbents for Hygiene Applications](#), *Journal of Bioactive and Compatible Polymers*, 32(2), 128-145, 2017
4. D Mastropietro, S Muppalaneni, H Omidian: [Deterred Drug Abuse Using Superabsorbent Polymers](#), *Expert Opinion on Drug Delivery*, 13(11), 1523-1531, 2016
5. S Muppalaneni, D Mastropietro, H Omidian: [Crush Resistance and Insufflation Potential of Poly\(ethylene oxide\)-Based Abuse-Deterrent Formulations](#), *Expert Opinion on Drug Delivery*, 13(10), 1375-1382, 2016
6. UD Kandalam, H Omidian, MA Mirza, and AMI Cabel: [Comparative Assessment of Growth Supporting Potential of Different Alginate Acid Salts](#), *International Journal of Polymeric Materials*, 67(1), 47-53, 2016
7. S Shaneh, F Shokrollahi, P Shokrollahi, H Yeganeh, E Seyedjafari, AA Lajimi, H Omidian: [Improved Immobilization of Gelatin on a Modified Polyurethane Urea](#), *Journal of Bioactive and Compatible Polymers*, 30(1), 57-73, 2015
8. Y Joshi, D Mastropietro, S Muppalaneni, H Omidian: [A New Approach to Determining the Performance of Superdisintegrants](#), *Journal of Bioactive and Compatible Polymers*, 30(1), 3-16, 2015
9. D Mastropietro, H Omidian: [Abuse-Deterrent Formulations \(ADFs\)-Part 2: Commercial Products and Proprietary Technologies](#), *Expert Opinion on Pharmacotherapy*, 15(18), 305-323, 2014
10. D Mastropietro, H Omidian: [Abuse-Deterrent Formulations \(ADFs\)- Part 1: Development of a Formulation-Based Classification System](#), *Expert Opinion on Drug Metabolism and Toxicology*, 11(2), 193-204, 2014
11. H Omidian, D Mastropietro, U Kandalam: [Swelling, Strength, and Biocompatibility of Superporous Hydrogel Hybrids](#), *Journal of Bioactive and Compatible Polymers*, 29(1), 66-80, 2014

12. P Park, J Caballero, H Omidian: [Use of Serotonin Norepinephrine Reuptake Inhibitors in the Treatment of Attention Deficit Hyperactivity Disorder in Pediatrics](#), *Annals of Pharmacotherapy*, 48(1), 86-92, 2014
13. P Shokrollahi, M Mehmanchi, M Atai, H Omidian, F Shokrollahi: [Effect of Interface on Mechanical Properties and Biodegradation of PCL HAp Supramolecular Nano-Composites](#), *Journal of Materials Science: Materials in Medicine*, 25, 23-35, 2014

RECENT BOOK CHAPTERS

1. D Mastropietro, K Park, H Omidian: [Polymers in Oral Drug Delivery in COMPREHENSIVE BIOMATERIALS, Volume I1, Metallic, ceramic, and polymeric biomaterials](#), *Chapter 12*, P Ducheyne (Ed); Elsevier (publisher), 2017
2. D Mastropietro, S Muppalaneni, Y Kwon, K Park, H Omidian: [Polymers in Drug Delivery in DRUG DELIVERY](#), *Chapter 7*, AK Mitra, D Kwart, AD Vadlapudi (Eds.), Jones & Bartlett Learning, Aug 2014
3. S Muppalaneni, D Mastropietro, H Omidian: [Mucoadhesive Drug Delivery Systems in ENGINEERING POLYMER SYSTEMS FOR IMPROVED DRUG DELIVERY](#), *Chapter 10*, RA Bader and D Putnam (Eds.), Wiley, Nov 2013

RECENT CONFERENCE PRESENTATIONS

1. R Ahmad, S Alaei, H Omidian: [Probe Penetration Method to Characterize Low Solid High Viscous Pharmaceutical Gel Compositions](#), NSU College of Pharmacy's HPD Research Day, Fort Lauderdale, FL, Feb 2018
2. R Ahmad, S Alaei, H Omidian: [Effect of Crosslink Density and Concentration on Rheological Properties of Crosslinked Acrylic Acid Homopolymers](#), NSU College of Pharmacy's HPD Research Day, Fort Lauderdale, FL, Feb 2018
3. S Alaei, R Ahmad, H Omidian: [Herschel-Bulkley Model Describing the Rheology of Polyacrylates Superabsorbent Homopolymers](#), NSU College of Pharmacy's HPD Research Day, Fort Lauderdale, FL, Feb 2018
4. S Alaei, R Ahmad, H Omidian: [Rheological Behavior and Modelling of Hydrophobically-Modified Gelling Agents Used in Pharmaceutical Semi-Solids](#), NSU College of Pharmacy's HPD Research Day, Fort Lauderdale, FL, Feb 2018
5. Y Joshi, R Forbes, H Omidian: [Effect of Shear Stress History on Polymer Solution Aspiration](#), NSU College of Pharmacy's HPD Research Day, Fort Lauderdale, FL, Feb 2018
6. Y Joshi, R Forbes, H Omidian: [Determining Syringeability by Measuring Aspiration Volume of Polymer Solutions at Different Temperatures](#), NSU College of Pharmacy's HPD Research Day, Fort Lauderdale, FL, Feb 2018
7. Y Joshi, R Forbes, H Omidian: [Effect of Temperature on Gelation Properties of Cellulose Derivatives](#), NSU College of Pharmacy's HPD Research Day, Fort Lauderdale, FL, Feb 2018
8. R Forbes, Y Joshi, H Omidian: [Minimizing Drug Extraction via Simultaneous Binding and Coagulation](#), NSU College of Pharmacy's HPD Research Day, Fort Lauderdale, FL, Feb 2018
9. Y Joshi, R Forbes, H Omidian: [Effect of Thermal History on Abuse Deterrence Performance](#), NSU College of Pharmacy's HPD Research Day, Fort Lauderdale, FL, Feb 2018

10. R Ahmad, B Caturano, H Omidian: [A Dual Mechanism to Deter Intravenous Drug Abuse Using Crosslinked Anionic Polymers](#), NSU College of Pharmacy's HPD Research Day, Fort Lauderdale, FL, Feb 2018
11. R Ahmad, C Crum, H Omidian: [Opioid Complexation and Abuse Performance of Crosslinked Cellulose and Starch Derivatives](#), NSU College of Pharmacy's HPD Research Day, Fort Lauderdale, FL, Feb 2018
12. B Caturano, R Ahmad, C Crum, H Omidian: [Structural Factors Affecting Abuse Performance of Common Pharmaceutical Superdisintegrants](#), NSU College of Pharmacy's HPD Research Day, Fort Lauderdale, FL, Feb 2018
13. R Ahmad, C Crum, H Omidian: [Therapeutic Polymers to Deter Intravenous Drug Abuse](#), NSU College of Pharmacy's HPD Research Day, Fort Lauderdale, FL, Feb 2018
14. R Ahmad, C Crum, H Omidian: [In-Vitro Drug Release from Abuse-Deterrent Therapeutic Polymers](#), NSU College of Pharmacy's HPD Research Day, Fort Lauderdale, FL, Feb 2018
15. S Vempati, Y Joshi, H Omidian: [Texture Analyzer to Evaluate Disintegration Performance of Pharmaceutical Superdisintegrants Under Simulated Gastric Conditions](#), South Florida Section of *American Chemical Society (SoFL-ACS)*, Nova Southeastern University, Fort Lauderdale, FL, 2017
16. S Vempati, Y Joshi, H Omidian: [Measuring the Effect of Alcohol on Swelling and Disintegration Behavior of Various Superdisintegrants](#), South Florida Section of *American Chemical Society (SoFL-ACS)*, Nova Southeastern University, Fort Lauderdale, FL, 2017
17. S Mondal, Y Joshi, H Omidian: [Drug-Polymer Complexation, An Effective Technique to Deter Drug Abuse by Injection](#), South Florida Section of *American Chemical Society (SoFL-ACS)*, Nova Southeastern University, Fort Lauderdale, FL, 2017
18. Y Joshi, S Muppalaneni, S Vempati, H Omidian: [Drug Release and Crush Resistance Properties of Plasticized Abuse Deterrent Compositions](#), South Florida Section of *American Chemical Society (SoFL-ACS)*, Nova Southeastern University, Fort Lauderdale, FL, 2017
19. Y Joshi, S Muppalaneni, S Mondal, H Omidian: [Thermal Manipulation of Plasticized Abuse Deterrent Compositions](#), South Florida Section of *American Chemical Society (SoFL-ACS)*, Nova Southeastern University, Fort Lauderdale, FL, 2017
20. Y Joshi, S Muppalaneni, H Omidian: [Effect of Milling Method and Milling Time on Crush Resistance Performance of Plasticized Abuse Deterrent Tablets](#), South Florida Section of *American Chemical Society (SoFL-ACS)*, Nova Southeastern University, Fort Lauderdale, FL, 2017
21. C Crum, R Ahmad, H Omidian: [Dextromethorphan-Sodium Starch Glycolate Complex with Abuse-Deterrent Properties](#), South Florida Section of *American Chemical Society (SoFL-ACS)*, Nova Southeastern University, Fort Lauderdale, FL, 2017
22. R Ahmad, C Crum, H Omidian: [Drug Release Evaluation of a Carboxymethyl Starch-Based Abuse Deterrent Formulation](#), South Florida Section of *American Chemical Society (SoFL-ACS)*, Nova Southeastern University, Fort Lauderdale, FL, 2017
23. R Ahmad, D Mastropietro, H Omidian: [Sequestered Bentonite to Deter Drug Abuse and Maintain Therapeutic Use](#), South Florida Section of *American Chemical Society (SoFL-ACS)*, Nova Southeastern University, Fort Lauderdale, FL, 2017
24. R Ahmad, S Muppalaneni, C Crum, H Omidian: [Effect of Thermal Treatment on the Binding Efficiency of Carboxymethyl Starch, a Potential Deterrent Agent for Intravenous Abuse](#), South Florida Section of *American Chemical Society (SoFL-ACS)*, Nova Southeastern University, Fort Lauderdale, FL, 2017
25. Y Joshi, S Muppalaneni, S Mondal, D Mastropietro, H Omidian: [Drug Abuse Deterrence by Preventing Extraction](#), *American Association of Pharmaceutical Scientists (AAPS)*, Denver, CO, 2016
26. Y Joshi, S Muppalaneni, A Kariman, D Mastropietro, H Omidian: [Drug-Deterrent Agent Complexation to Deter Drug Abuse by Injection](#), *American Association of Pharmaceutical Scientists (AAPS)*, Denver, CO, 2016
27. S Muppalaneni, S Mondal, Y Joshi, H Omidian: [Effect of Syringe and Needle Size on Injectability of Drug Extract Solutions](#), *American Association of Pharmaceutical Scientists (AAPS)*, Denver, CO, 2016

28. S Muppalaneni, D Mastropietro, H Omidian: [Experimental Design to Optimize and Maximize Deterrence Capacity of Deterrent Blends](#), *American Association of Pharmaceutical Scientists (AAPS)*, Denver, CO, 2016
29. R Ahmad, S Muppalaneni, H Omidian: [Sodium Starch Glycolate as a Potential Deterrent Agent for Opioid Abuse](#), *American Association of Pharmaceutical Scientists (AAPS)*, Denver, CO, 2016
30. R Ahmad, S Muppalaneni, H Omidian: [Carboxymethyl Starch as Potential Deterrent Agent for Intravenous Abuse](#), Chemical Sciences Symposium, South Florida Section of *American Chemical Society (SoFL-ACS)*, Nova Southeastern University, Fort Lauderdale, FL, 2016
31. A Omidian, S Mondal, J de Sa, Y Joshi, S Muppalaneni, H Omidian: [Solid State Properties of Polyethylene Oxide \(PEO\) under Abuse Conditions](#), Chemical Sciences Symposium, South Florida Section of *American Chemical Society (SoFL-ACS)*, Nova Southeastern University, Fort Lauderdale, FL, 2016
32. Y Joshi, A Omidian, S Mondal, J de Sa, S Muppalaneni, H Omidian: [Viscosity of Polyethylene Oxide \(PEO\) under Abuse Conditions](#), Chemical Sciences Symposium, South Florida Section of *American Chemical Society (SoFL-ACS)*, Nova Southeastern University, Fort Lauderdale, FL, 2016
33. H Omidian, D Mastropietro: [Abuse Deterrent Technologies](#), *Joint COP and CTI Mini-symposium*, Nova Southeastern University, Fort Lauderdale, FL, 2016
34. S Muppalaneni, S Mondal, D Mastropietro, H Omidian: [Effect of Needle Size and Solvent on Injectability of Polyethylene Oxide \(PEO\) Solutions](#), *NSU College of Pharmacy's HPD Research Day*, Fort Lauderdale, FL, Feb 2016
35. S Muppalaneni, A Kariman, D Mastropietro, H Omidian: [Ease of Manipulating Dosage Forms for Nasal Insufflation](#), *NSU College of Pharmacy's HPD Research Day*, Fort Lauderdale, FL, Feb 2016
36. S Muppalaneni, A Kariman, D Mastropietro, H Omidian: [Developing In-Vitro Tests for Solid-State Abuse Deterrence Capacity](#), *NSU College of Pharmacy's HPD Research Day*, Fort Lauderdale, FL, Feb 2016
37. S Muppalaneni, S Mondal, D Mastropietro, H Omidian: [Dynamic Glide Force \(DGF\) to Measure Resistance to Intravenous Abuse](#), *NSU College of Pharmacy's HPD Research Day*, Fort Lauderdale, FL, Feb 2016
38. A Kariman, Y Joshi, D Mastropietro, H Omidian: [Preventing Drug Extraction Via Surface Adsorption](#), *NSU College of Pharmacy's HPD Research Day*, Fort Lauderdale, FL, Feb 2016
39. Y Joshi, D Mastropietro, H Omidian: [Abuse Vulnerability of Currently-Marketed Abuse-Deterrent Medications](#), *NSU College of Pharmacy's HPD Research Day*, Fort Lauderdale, FL, Feb 2016
40. Y Joshi, A Kariman, D Mastropietro, H Omidian: [Complexation Efficiency of Croscarmellose Sodium \(CCS\) as an Effective Abuse-Deterrent Agent](#), *NSU College of Pharmacy's HPD Research Day*, Fort Lauderdale, FL, Feb 2016
41. Y Joshi, D Mastropietro, H Omidian: [Prevention of Active Drug Extraction Using Absorbent Clay Composite](#), *NSU College of Pharmacy's HPD Research Day*, Fort Lauderdale, FL, Feb 2016
42. D Mastropietro, H Omidian: [Binding Endurance and Deterrence Capacity of Croscarmellose Sodium \(CCS\) in Various Solvents](#), *NSU College of Pharmacy's HPD Research Day*, Fort Lauderdale, FL, Feb 2016
43. D Mastropietro, H Omidian: [Superabsorbent Materials to Hinder Drug Extraction and Syringeability](#), *NSU College of Pharmacy's HPD Research Day*, Fort Lauderdale, FL, Feb 2016
44. D Mastropietro, H Omidian: [Gel-Forming Excipients to Slow Alcohol Absorption into Systemic Circulation](#), *NSU College of Pharmacy's HPD Research Day*, Fort Lauderdale, FL, Feb 2016
45. D Mastropietro, H Omidian: [Complexing Agents to Prevent Intentional Drug Abuse by Rapid Extraction](#), *NSU College of Pharmacy's HPD Research Day*, Fort Lauderdale, FL, Feb 2016
46. Y Joshi, D Mastropietro, H Omidian: [Reduced Abuse Deterrent Features of Poly\(ethylene oxide\) at High Temperatures](#), *American Association of Pharmaceutical Scientists (AAPS)*, Orlando, Florida, 2015

47. S Muppalaneni, S Mondal, D Mastropietro, H Omidian: [Injectability and Rheology of Poly\(ethylene oxide\) Solutions Under Abuse Conditions](#), *American Association of Pharmaceutical Scientists (AAPS)*, Orlando, Florida, 2015
48. D Mastropietro, A Kariman, H Omidian: [Potential Therapeutic Polymer to Absorb Ethanol Under Severe Gastric Conditions](#), *American Association of Pharmaceutical Scientists (AAPS)*, Orlando, Florida, 2015
49. D Mastropietro and H Omidian: [Abuse Deterrent Capacity of Swellable Tablets Containing Superabsorbent Polymers](#), *American Association of Pharmaceutical Scientists (AAPS)*, Orlando, Florida, 2015
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