

**DUQUESNE UNIVERSITY**  
**MYLAN SCHOOL OF PHARMACY**  
**GRADUATE SCHOOL OF PHARMACEUTICAL SCIENCES**  
**DEGREES AWARDED**  
**MEDICINAL CHEMISTRY**

- |                        |     |           |   |
|------------------------|-----|-----------|---|
| ➤ Sane, Rucha          | MS  | Aug. 2000 | Synthesis of Estrone Sulfatase Inhibitors as Potential Anti-breast Cancer Agents  |
| ➤ Dubash, Nauzer       | PhD | May 2001  | The Synthesis of Furo, Pyrrolo and Pyrido Fused Pyrimidines as Antifolates  |
| ➤ Yu, Jianming         | PhD | Aug. 2001 | The Synthesis of Classical and Nonclassical Pyrrolo[2,3- <i>d</i> ]pyrimidines and Dihydrocyclopental[ <i>d</i> ]pyrimidine as Antifolates  |
| ➤ Zeng, Yibin          | PhD | May 2002  | The Synthesis of Classical and Nonclassical 6-5 Bicyclic Furo[2,3- <i>d</i> ]pyrimidines, Pyrrolo[2,3- <i>d</i> ]pyrimidines and 6-6-6 Linear Tricyclic Pyrido[2,3- <i>d</i> ]pyrimidines as Antifolates  |
| ➤ Wang, Ying           | MS  | Aug. 2004 | The Synthesis of 2,4-Diamino Pyrido[2,3- <i>d</i> ]pyrimidines and 2,4-Diamino-6-oxo-pyrimidines as Dihydrofolate Reductase and Thymidylate Synthase Inhibitors   |
| ➤ Yang, Jie            | PhD | Dec. 2004 | The Synthesis of 6-5 Bicyclic Furo[2,3- <i>d</i> ]pyrimidines and 6-5-6 Tricyclic Indolo[2,3- <i>d</i> ]pyrimidines as Receptor Tyrosine Kinase Inhibitors or Classical and Nonclassical Antifolates  |
| ➤ Ahuja, Vijay T.      | MS  | Dec. 2004 | The Synthesis of Pyrido[2,3- <i>d</i> ]pyrimidines and Quinazolines as Antifolates  |
| ➤ Lin, Xin             | PhD | May 2005  | Synthesis of Pyrrolo[2,3- <i>d</i> ]pyrimidines and Pyrimidines as Antifolates and/or Receptor Tyrosine Kinase Inhibitors and CoMFA and CoMSIA Analyses of Pneumocystis carinii, Toxoplasma gondii and Rat Liver Dihydrofolate Reductase Inhibitors |
| ➤ Qiu, Yibin           | MS  | May 2005  | The Synthesis of Thieno[2,3- <i>d</i> ]pyrimidines as Inhibitors of Thymidylate Synthase, Dihydrofolate Reductase and Receptor Tyrosine Kinases   |
| ➤ Jain, Hiteshkumar D. | PhD | Aug. 2006 | Synthesis of Pyrrolo[2,3- <i>d</i> ]pyrimidines and Furo[2,3- <i>d</i> ]pyrimidines as Classical and Nonclassical Antifolates or Receptor Tyrosine Kinase Inhibitors  |

*Degrees Awarded*  
*Medicinal Chemistry*  
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- Bednarski, David M. MS May 2008 Gene Regulation Through Artificially Induced DNA Conformational Changes
- Talreja, Tina MS Aug. 2008 Design and Synthesis of Pyrrolo[2,3-*d*]Pyrimidines as Dihydrofolate Reductase, Thymidylate Synthase and Receptor Tyrosine Kinase Inhibitors
- Adair, Ona O. PhD May 2009 Synthesis of 2,4-Diaminopyrido[2,3-*d*]Pyrimidines and 2,4-Diaminoquinazolines as Inhibitors of Dihydrofolate Reductase and Thymidylate Synthase
- Li, Wei PhD May 2009 Synthesis of Furo[2,3-*d*]Pyrimidines, Thieno[2,3-*d*]Pyrimidines, Pyrrolo[2,3-*d*] and Pyrrolo[3,2-*d*]Pyrimidines as Classical and Nonclassical Antifolates or Receptor Tyrosine Kinase Inhibitors
- Yi, Shuyan MS May 2009 Design and Synthesis of Benzimidazole Analogs as CDK5 Inhibitors and Progress Toward the Total Synthesis of Tubulysin D
- Namjoshi, Ojas A. PhD May 2009 The Synthesis of Pyrrolo [2,3-*d*]-Pyrimidines and Pyrido[2,3-*d*]Pyrimidines as Receptor Tyrosine Kinase Inhibitors or Tubulin Inhibitors or Inhibitors of Dihydrofolate Reductases and the Development of Metal Catalyzed Cross-Coupling Reactions
- Kurup, Sonali PhD May 2009 The Synthesis of Bicyclic Pyrrolo[2,3-*d*] Pyrimidines as Inhibitors of Receptor Tyrosine Kinases, Microtubules or HSP90
- Zaware, Nilesh PhD Dec. 2009 Synthesis of Pyrrolo[2,3-*D*]Pyrimidines and Pyrimido[4.5-*B*]Indoles as Inhibitors of Multiple Receptor Tyrosine Kinases, Folate Metabolizing Enzymes and Tubulin
- Zhao, Ying PhD May 2010 Synthesis of Bicyclic Pyrrolo [2,3-*d*] Pyrimidines and Tricyclic Indeno [2,1-*d*]/[1,2-*d*] Pyrimidines as Receptor Tyrosine Kinase (RTK) Inhibitors and Antimitotic Agents
- Chopra, Ishveen MS May 2010 Design and Synthesis of CDK-5 and MEK-5 Inhibitors and Synthesis Towards Tubulysin Analogs

*Degrees Awarded*  
*Medicinal Chemistry*  
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- Wang, Lei      PhD    Dec. 2010      Classical and Nonclassical Antifolates: Synthesis of Furo-[2, 3-*d*] Pyrimidines Pyrrolo[2, 3-*d*]Pyrimidines and Pyrimido- [4, 5-*b*]-Indoles

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**DEGREES AWARDED**  
**PHARMACEUTICS**

- Rege, Pankaj R.    PhD    May 2000    On the Development of Chitinosans as Enabling Excipients for Use in Modified Release Drug Delivery Systems
- Vartak, Deepali    MS    May 2001    Effect of External Parameters on Intrinsic Dissolution Rate of Pharmaceutical Substances
- Ghorab, Mohammed K.    PhD    Dec. 2001    Effect of Wet Granulation of Ibuprofen and Beta-Cyclodextrin on Complexation, Dissolution and Bioavailability
- Jain, Ashwinkumar C.    PhD    Dec. 2001    Characterization of Differently Substituted Sulfobutylether Beta-Cyclodextrin (SBE Beta-CD) and Complexation Studies with Various Steroids: In vitro-In vivo Evaluation of Buccal Tablets Prepared Using Danazol-SBE 7 Beta-CD Complexes
- Dattarajan, Meenakshi    MS    Dec. 2001    Use of Enhancer Cell™ to Measure Drug Release from Semisolid Dosage Forms: Excipient Variations
- Bose, Sonali    MS    May 2002    Effect of Vibration on the Release of Drugs from Solid Dosage Forms
- Sharma, Laxmikant H.    MS    May 2002    Application of Thocel as a Direct Compressible Rate Controlling Polymer with Myvatex TL as a Lubricant
- Govekar, Vivek L.    PhD    May 2002    Evaluation of the Effects of Monoglyceride Lubricants on the Compressibility of Several Tablet Blends
- Shukla, Dhruvi    MS    May 2003    Study of the Molecular Weights and Molecular Weight Distributions in Chitinosans and Carregeenans
- Abu Hashash, Ahmad    PhD    May 2003    Preclinical Development of the Alkyl 2-Imidazolyl Disulfide Compounds: Pharmaceutical Aspects
- ChamCarthy, Sai Prasanth    MS    Aug. 2003    Design and Development of a DNA Delivery System for Murine Dendritic Cells
- Chukwumezie, Sr. Beatrice Nkem    PhD    Dec. 2003    Statistically Designed Spheronization and Scale-up of Ibuprofen Microparticulates Using the Fluid-bed Rotor Disk Technology: Coating for Prolonged Release and Hard Gelatin Encapsulation of Microparticulates
- Iyer, Meenakshy    PhD    May 2004    Development of Near-Infrared Spectroscopic Method for the Analysis of Intact Tablets

*Degrees Awarded*  
*Pharmaceutics*  
*Page 2*

- El Hagrasy, Arwa S. PhD May 2004 Development of Near-Infrared Spectroscopic and Imaging Methods for Process Control of Pharmaceutical Powder Blending
- Bijlani, Vishal J. MS Dec. 2004 Use of Near-Infrared Spectroscopy to Monitor the Hardness of Roller Compacted Ribbons
- Kovacs, Jeffrey MS Dec. 2006 Development of Particle-based Systems for the Delivery of Oligonucleotides into Primary Dendritic Cells
- Cogdill, Robert P. PhD May 2007 Integration of Multivariate Simulation and Method Understanding for Efficient, Science-Based Process Analytical Systems Development
- Voytilla, Randall J. MS Dec. 2007 Non-Destructive Prediction of Drug Release From Tablets Using Near-Infrared Spectroscopy
- Esseku, Fredrick MS May 2008 Evaluation of Fixed Dose Combination Dosage Forms of Antiretroviral Drugs: Development of Reconstitutable Suspension for Pediatrics
- Lin, Yannan MS May 2008 Calibration of a Materials Informatics Database for Prediction of Mechanically Activated Amorphization in Small Molecule Organic Solids and Sample Porosity Corrections of MDSC Thermal Conductivity Measurements
- Ma, Hua PhD Dec. 2008 Near-Infrared Chemical Imaging as a Tool for Understanding Blending of Pharmaceutical Materials and Optimization of Blending Process Control
- Kovacs, Jeffrey PhD Dec. 2008 Characterization of Submicron Particles as Nucleic Acid Delivery Platforms in Dendritic Cells
- Onadeko, Toluwalope MS May 2009 Preparation and Characterization of Oil-in-Water Emulsions of Trifluoperazine for Parenteral Drug Delivery
- Shi, Zhenqi PhD May 2009 Applying Mechanistic Understanding of Optical Absorption and Scattering Phenomena to Enhance the Spectroscopic Analyses of Pharmaceutical Materials
- Short, Steve PhD Dec. 2009 Performance-Based Quality Specifications: The Link Between Product Development and Clinical Outcomes

*Degrees Awarded*  
*Pharmaceutics*  
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- Wargo, David      PhD      Dec. 2009      Near-Infrared Analysis and Process Control of Pharmaceutical Pelletization Processes
  
- Jia, Liang      PhD      Dec. 2009      Modulation of Dendritic Cells with the Interleukin-10 Gene Loaded on Polycation-Modified Polymeric Particles
  
- Moore, Michael      PhD      Dec. 2010      Development of Multivariate Powder X-Ray Diffraction Techniques and Total Scattering Analyses to Enable Informatic Calibration of Solid Dispersion Potential
  
- Zheng, Ying      PhD      Dec. 2010      A Peptide-Based Platform for Displaying Antibody to Engage T Cells
  
- Esseku, Fredrick      PhD      Aug. 2011      Development and Bioavailability/Bioequivalence of a Fixed-Dose Combination Antiretroviral Reconstitutable Suspension Intended for Pediatrics
  
- Kotreka, Udaya      PhD      Aug. 2011      Development of Topical Ophthalmic In Situ Gel-Forming Estradiol Delivery System Intended for the Prevention of Age-Related Cataracts
  
- Fu, Shao      PhD      Dec. 2011      Inter-Grade and Inter-Batch Variability of Pharmaceutical-Grade Sodium Alginate

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**DEGREES AWARDED**  
**PHARMACOLOGY-TOXICOLOGY**

- |                              |     |           |  |
|------------------------------|-----|-----------|--|
| ➤ Milchak,<br>Lawrence M.    | PhD | Aug. 2000 | Nuclear Calcium Accumulation and DNA Fragmentation Associated with Iron Toxicity in Isolated Rat Hepatocytes                                       |
| ➤ Mostowy, Janet             | PhD | Dec. 2000 | Glutathione Depletion and Cyanide Generation as a Mechanism of 2-Chloroacrylonitrile Acute Toxicity  |
| ➤ Wright,<br>Stephanie       | MS  | May 2001  | Cholinergic and Steroidal Modulation of the Hypothalamic-Pituitary-Adrenal Axis in Male and Female Rats  |
| ➤ Marks, Megan G.            | PhD | Dec. 2001 | Determination of the Effects of Putative Thalidomide Metabolites on Angiogenesis Using an in vitro and in vivo Model                               |
| ➤ Passey,<br>Deepshika       | MS  | May 2003  | Microtubule Modulation of PLC-dependent Signal Transduction Cascades in MT1- and MT2-CHO Cells   |
| ➤ Jarzynka,<br>Michael       | PhD | Aug. 2003 | Modulation of Human MT1 and MT2 Melatonin Receptor and G-Protein Function by Microtubules  |
| ➤ Pokala,<br>Vedavalli       | PhD | May 2005  | Effect of Steroid Sulfatase Inhibition on Hippocampal Cholinergic-Muscarinic Receptor Function and Amyloid Precursor Protein Metabolism            |
| ➤ Ukairo,<br>Okechukwu T.    | PhD | Dec. 2005 | Structural Determinants for Substrate and Inhibitor Recognition by the Dopamine Transporter  |
| ➤ Radio, Nicholas            | PhD | May 2006  | A Mechanistic Evaluation of How Melatonin Enhances Alkaline Phosphatase Activity in Human Adult Mesenchymal Stem Cells                             |
| ➤ Ramanujapuram,<br>Suneetha | MS  | Aug. 2006 | Dopamine Uptake Inhibition Potency Fluctuations of Cocaine at the Dopamine Transporter   |
| ➤ Bondi, Corry D.            | MS  | Dec. 2006 | Outgrowth Formation in MT1-CHO Cells is Dependent Upon Gi Protein Activation, Elevated and Sustained MAP Kinase Activation and Intact Microtubules |
| ➤ Adams, Wendy               | PhD | May 2007  | The Role of the Seventh Transmembrane NPXXY Motif in Mu Opioid Receptor Activation   |

***Degrees Awarded***  
***Pharmacology-Toxicology***  
***Page 2***

- Arshad, Samreen MS Aug. 2007 Effect of Neurosteroid Dehydroepiandrosterone Sulfate (DHEAS) on Rat Model for Dementia
- Kotlarczyk, Mary P. MS Dec. 2007 Identification of Black Cohosh-Regulated Markers in Mammary Tumors from MMTV-*neu*MICE
- Abitoye, Phebian MS May 2008 The Steroid Sulfatase Inhibitor (p-O-Sulfamoyl)-Tetradecanoyl Tyramine (DU-14) Enhances Memory Retention in Passive Avoidance in Rats with Hippocampal Cholinergic Deficit
- Rutkowski, James L. PhD Dec. 2008 Mechanistic and Clinical Studies of Platelet Rich Plasma: A Simple Clinical Method for Enhancing Bone and Soft Tissue Healing
- Cai, Li MS Dec. 2008 The Effect of Selective Cholinergic Lesion of Medial Septum on Recognition Memory
- Indarte, Martin PhD Dec. 2008 Computational Modeling of Monoamine Transporters: Development of a Virtual Screening Drug Discovery Tool
- Fitz, Nicholas F. PhD May 2009 Selective Lesion of Cholinergic Neurons of the Septal-Hippocampal Tract: Memory and Learning
- Clafshenkel, William P. MS May 2009 An Evaluation of the Efficacy of *Morinda Citrifolia* (Noni) on the Development and Progression of Breast Cancer in the MMTV-*NEU* Mouse Model
- Kirker, M. Rachel PhD Dec. 2009 The Identification and Characterization of Estrogen Receptors in the Mouse and Human Lens and Their Role in Cataract Development
- Sethi, Shalini PhD Dec. 2010 Effect of Melatonin on Differentiation of Human Mesenchymal Stem Cells and a Study on C-Terminal Domains of MT<sub>1</sub> and MT<sub>2</sub> Receptors
- Huang, Yurong MS Dec. 2010 Characterization of Structurally Diverse Inhibitors at the Monoamine Transporters

*Degrees Awarded*  
*Pharmacology-Toxicology*  
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- Liu, Yi                      PhD      May 2011      Structural Determinants for Inhibitor Recognition by the Dopamine Transporter
  
- Malichky, Paul          PhD      May 2011      Cyanate Formation Following 2-Chloroacrylonitrile Exposure and the Role of Cytochrome P-450
  
- Clafshenkel, William P.      PhD      Dec. 2011      The Application of Melatonin and Platelet-Rich Plasma in the Development of a Bioactive Calcium Aluminate Bone Regenerative Scaffold
  
- Johnson, Nakpangi A.      PhD      Dec. 2011      p,p' DDE Regulated Gene Expression and Possible Mechanisms of Action in Breast Tumor Formation
  
- Kotlarczyk Mary P.          PhD      Dec. 2011      Daily Nocturnal Melatonin Supplementation in Perimenopausal Women: A Randomized, Double-Blind, Placebo-Controlled Pilot Study Examining the Effects of Melatonin on Bone Health and Quality of Life

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**DEGREES AWARDED**  
**PHARMACY ADMINISTRATION**

|   |                   |    |           |   |
|---|-------------------|----|-----------|---|
| ➤ | Vaughan, Melissa  | MS | May 2002  | Non-Thesis  |
| ➤ | Shah, Manish      | MS | Aug. 2003 | A Quantitative Analysis of the Content of Print Direct-to-Consumer Prescription Drug Advertisements in Popular Consumer Magazines       |
| ➤ | Holmes, Erin      | MS | Aug. 2003 | The Use of Speech Disfluency as an Indicant of Paradigm Development in Pharmacy's Academic Subdisciplines                               |
| ➤ | Bunn, Michael     | MS | May 2005  | Non-Thesis  |
| ➤ | Naik, Shalini     | MS | May 2007  | Evaluating the Cost-Effectiveness of Tiotropium in the Treatment of Chronic Obstructive Pulmonary Disease                               |
| ➤ | Markuss, Jason J. | MS | Aug. 2007 | Non-Thesis  |
| ➤ | Conklin, Mark H.  | MS | May 2008  | An Examination of Pharmacy Faculty Quality of Work Life: Work Satisfaction, Turnover Intentions and Self-Efficacy                       |
| ➤ | Shah, Neel        | MS | May 2008  | Development and Construct Validation of the Pharmacists' Care of Migraineurs Scale  |
| ➤ | Parekh, Hemangi   | MS | May 2008  | Resource Utilization Among Inpatients with Rheumatoid Arthritis – An Analysis of 2002-2004 Healthcare Cost and Utilization Project Data |
| ➤ | Rane, Pallavi     | MS | May 2010  | Hospital Resource Utilization Among Patients with Chronic Obstructive Pulmonary Disease   |