

**CURRICULUM VITAE****Name:**

Mauricio J. Reginato, Ph.D.

**Address:**

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**Education:***Undergraduate:*

1985-1989 Bachelor of Science, Biology  
Penn State University,  
University Park, PA

*Graduate:*

1992-1998 Ph.D., Pharmacology  
University of Pennsylvania  
Philadelphia, PA  
Thesis advisor: Mitchell A. Lazar, M.D., Ph.D.  
Thesis Title: Inhibitory Mechanisms Regulating Hormone  
Receptor Action.

*Postgraduate training:*

1998-2004 Postdoctoral Fellow  
Department of Cell Biology  
Harvard Medical School,  
Boston, MA  
Advisor: Joan S. Brugge, Ph.D.

**Honors and Awards:**

- 1991 Impact Award-SmithKline Beecham Pharmaceuticals
- 1992 Predoctoral Fellowship Award-NIGMS
- 1992 Fontaine Fellowship Predoctoral Award-University of Pennsylvania
- 1995 Predoctoral Award-Merck-Dupont Pharmaceuticals
- 1996 Endocrine Society Travel Award-International Congress of Endocrinology
- 1997 NIH Travel Grant-Keystone Symposia, Molecular and Cell Biology
- 1998 Best Poster, Predoctoral Investigator, Signal Transduction Retreat, University of Pennsylvania
- 1998 NIH Travel Grant-Keystone Symposia, Molecular and Cell Biology
- 1998 Saul Weingrad Best Dissertation Award: Pharmacological Sciences, University of Pennsylvania
- 1999 Susan G. Komen Breast Cancer Foundation Postdoctoral Fellowship
- 2010 Professional Enrichment and Growth Award, Drexel University College of Medicine
- 2010 Young Investigator Award, Drexel University College of Medicine

**Employment History:**

- 6/89-8/91: **Associate Scientist**, Department of Investigative Toxicology, SmithKline Beecham Pharmaceuticals, King of Prussia, PA
- 8/04-2/11 **Assistant Professor**, Co-Director Imaging Facility, Department of Biochemistry and Molecular Biology, Drexel University College of Medicine
- 3/11-2/14 **Associate Professor**, Department of Biochemistry and Molecular Biology, Drexel University College of Medicine
- 2/12-present **Director**, In Vivo Animal Imaging Program, Drexel University College of Medicine
- 2/12-present **Director**, Masters in Cancer Biology Program, Drexel University College of Medicine
- 5/12-present **Member**, Breast Cancer Program, Kimmel Cancer Center-NCI Designated Cancer Center, Thomas Jefferson University, Philadelphia, PA
- 3/14-present **Associate Professor (with tenure)**, Department of Biochemistry and Molecular Biology, Drexel University College of Medicine

**Professional Society Memberships:**

American Society of Cell Biology  
 American Association of Cancer Research  
 American Society for Biochemistry and Molecular Biology

**Professional Committees and Administrative Service***Institutional Service:*

- 2015- Tenure Review Committee for Adrian Shieh, Ph.D., Drexel University, School of Biomedical of Engineering
- 2015- Drexel University Representative, Pennsylvania Cancer Alliance
- 2014- Ad-hoc Grant Reviewer, Clinical & Translational Research Institute, Drexel University College of Medicine (DUCOM)
- 2014- Member, Health Sciences Research Task Force, Drexel University and DUCOM
- 2014- Ad-hoc Grant Reviewer, Thomas Jefferson University, Kimmel Cancer Center, American Cancer Society-Institutional Research Grant Review Committee
- 2014-present Member, Curriculum and Evaluation Committee, DUCOM
- 2013-2015 Member, Finance Committee, DUCOM
- 2012-present Director, Masters in Cancer Biology Program, DUCOM
- 2012-present Member, MD/PhD Advisory Committee, DUCOM
- 2012-present Member, Elected At-large representative to the Biomedical Graduate Education Committee, DUCOM
- 2009-present Co-Director, Summer Undergraduate Research Fellowship (SURF) Program, DUCOM

2008-present	Prelim. Exam Committee, Molecular Cell Biology & Genetics (MCBG) Graduate Student Program
2007-present	Discovery Day Committees, Poster Judge Committee
2007-2015	Member, Steering Committee, MCBG Graduate Student Program, DUCOM
2011-2013	Chair, Faculty Search Committee, Biochemistry Department (recruited Dr. Todd Strochlic)
2010-2013	Member, Steering Committee of the Faculty, DUCOM
2010-2013	Steering Committee Representative, Executive Committee of the Faculty, DUCOM
2006-2012	Student Faculty Advisor, Interdepartmental Medical Science Program, DUCOM
2006-2010	Radiation Safety Committee Member, DUCOM
2008-2011	Faculty Search Committee, Biochemistry Department
2006-2010	Admissions Committee, Biochemistry Graduate Program

***Extramural Service:***

2015	Ad-hoc Grant Reviewer, The PA Breast Cancer Coalition
2015-2019	Standing Committee Member, NIH-NCI, Transition to Independence Study Section
2014-	Ad-hoc Grant Reviewer, The University of Alabama at Birmingham, Comprehensive Cancer Center Partnership
2014-	Ad-hoc Grant Reviewer, Swiss National Science Foundation
2013-	Ad-hoc Grant Reviewer, NIH-NCI Tumor Cell Biology Study Section Oncology 1- Basic Translational Integrated Review Group
2013-	Ad-hoc Grant Reviewer, NIH-NIGMS Pathway to Independence Study Section
2013-	Ad-hoc Grant Reviewer, Department of Defense, Breast Cancer Research Program, Breakthrough Awards
2013-	Ad-hoc Grant Reviewer, NIH-NCI I-Transition to Independence Study Section
2013-	Ad-hoc Grant Reviewer, Prostate Cancer United Kingdom
2013-present	Ad-hoc Scientific Review Panel, New Jersey Commission on Cancer Research
2013-2016	Standing Member, Peer Review Committee, Cell Structure and Metastasis, American Cancer Society
2012-present	Ad-hoc Grant Reviewer, Medical Research Council, United Kingdom
2012-	Ad-hoc Grant Reviewer, Israel Science Foundation
2011-2012	Ad-hoc Grant Reviewer, Cell Structure and Metastasis, American Cancer Society
2011	Ad-hoc Grant Reviewer, Dutch Cancer Society
2010	AACR 2011 Annual Meeting Program Committee: Member of the Cellular Stress Responses Subcommittee

2010	Ad-hoc Grant Reviewer, Department of Defense, Breast Cancer Research Program
2009	Ad-hoc Grant Reviewer, Ireland Health Research Board
2006-2015	Ad-hoc Scientific Review Panel, New Jersey Commission on Cancer Research

*Manuscript Reviewer:*

Cancer Cell, Nature Reviews Cancer, Genes & Development, Journal of Clinical Investigation, Nature Communications, Cancer Discovery, Cancer Research, Oncogene, Journal of Cell Biology, Cell Reports, Oncotarget, Molecular Biology of the Cell, Journal of Biological Chemistry, Cell Death and Disease, Breast Cancer Research, BMC Cancer, Stem Cell Reports, PLOS One, Gastric Cancer, Journal Cellular Biochemistry, Proteomics-Clinical Applications, Clinical and Experimental Medicine, Journal of Oncology, OncoTargets and Therapy, Oncology Reports, Molecular Carcinogenesis, Current Cancer Drug Targets, Expert Opinion on Drug Discovery, Molecular Carcinogenesis, Cell Communication & Signaling, Apoptosis, Gynecologic Oncology, Journal Biomedical Research, Tissue & Cell, Cell Biology & Toxicology, Cell Biology International, Biotechnology Progress, Biotechniques

**Educational Activities:****1. Teaching Experience:****a. Taught****Medical Student Instruction (current hrs/yr: 6)**

2013-present	“Cancer” Medical Biochemistry (3 hrs) Interdisciplinary Foundations of Medicine (IFM) Curriculum
2011-2013	“Gene Regulation” Medical Biochemistry (2 hrs) Program of Integrated Learning (PIL)
2010-2013	“Gene Regulation” Medical Biochemistry (4 hrs) Interdisciplinary Foundations of Medicine (IFM) Curriculum
2009-2013	“Abnormal Amniocentesis” Module, Small Group Conference, IFM (3 hrs)
2005-present	“Suspicious Lump” Module, Cancer Case Group Conference, IFM (3 hrs)
2005-2011	“Chest Pain” Module, Hyperlipidemia Case Group Conference, IFM (3 hr)

**Graduate Student Instruction (current hrs/yr: 36)**

2013-present	“Cancer Metabolism” Fundamentals of Molecular Medicine III (2 hrs)
2013-present	“Integrated Systems: Cancer Biology” Core Curriculum II (2 hrs)

2011-present	“Integrins and extracellular matrix” Core Curriculum II (2 hrs)
2010-present	“Cancer Metabolism” Advanced Cancer Biology (2 hrs)
2010-present	“Cancer Stem Cells” Advanced Cancer Biology (2 hrs)
2010-present	“How to read a paper” Biochemistry & Molecular Biology Supplement to the Core Curriculum (4 hrs)
2009-present	“Animal Models of Cancer Research” Animal Models in Biomedical Research (1 hr)
2008-present	“Steroid Receptors in Cancer” Cancer Biology (2 hrs)
2006-present	“Cell-Extracellular matrix communication” Advanced Cell Biology (2 hrs)
2006-present	“Cell Death Model Systems” Cell Cycle and Apoptosis (3 hrs)
2006-present	“Death Receptor Signaling” Cell Cycle and Apoptosis (3 hrs)
2005-present	“Tumor Microenvironment I & II” Cancer Biology (6 hrs)
2005-present	“Apoptosis in Cancer” Cancer Biology (2 hrs)
2004-present	“Light Microscopy Techniques” Experimental Approaches to Biochemical Problems (2 hrs)

#### **b. Coordinated**

2012-present	Director (new program), Masters in Cancer Biology Program, DUCOM
2010-present	Course Director, Advanced Cancer Biology, Biochem Dept. (new course)
2007-present	Course Director, MCBG Program Student-Organized Seminar Series
2006-present	Course Co-director, Cell cycle & Apoptosis, MCBG Program (new course)
2005-2011	Course Director, MCBG Program Journal Club

#### **c. Developed**

1. Developed new Masters Program in Cancer Biology (matriculated students since 2014= 17)
2. Helped update content of “Suspicious Lump” Module, Cancer Case Group Conference, IFM
3. Developed new course- Advanced Cancer Biology
4. Helped develop new course-Cell Cycle and Apoptosis

#### **2. Mentoring:**

**Thesis Examination Committees: Total: 44 (Serve as Chair-14).**

Graduated: Total: 32 (all Ph.D.’s unless noted). Meirav Zaks-Zilberman

(Biochem), PI: Irwin Chaiken, Jeff Pawlikowski (Biochem, M.S., *Chair*), PI:

Peter Adams: Fox Chase Cancer Center (FCCC), Amy Clippinger (MCBG), PI:

Michael Bouchard, Bez Torabi (MCBG), PI: Jane Clifford, Lizalynn Dias (Molecular Path.), PI: Gregg Johannes, Preeti Khandelwal (Biology, DU), PI: Aleister Saunders, Soonjin Hong (Biomedical Engineering, DU), PI: Kenneth Barbee, Temi Sodunke (Mechanical Engineering, DU), PI: Moses Noh, Nadia Tikhmyanova (Biochem, *Chair*), PI: Erica Golemis (FCCC), Amanda Frank (MCBG, *Chair*), PI: Maureen Murphy (FCCC), Vladimir Ratushny (MCBG, MD/PhD), PI: Erica Golemis (FCCC), Adam Leman (MCBG, *Chair*), PI: Eichi Noguchi, Gregory Botta (MCBG, MD/PhD, *Chair*) PI: Peter Lelkes, Bei Yang (MCBG) PI: Michael Bouchard, Mike Amatangelo (MCBG, *Chair*) PI: Mark Stearns, Niyant Shah (MCBG, M.S.) PI: Eichi Noguchi, Lisa Jones (Molecular Path.) PI; Gregg Johannes, Hollie Flick (Biochem) PI: Alexander Muller: Lankenau Medical Research Institute (LMRI), Geetika Sethi (Biochem) PI: Andrew Godwin (FCCC), Jeff Thomas (Molecular Path.) PI: Gregg Johannes, Shuo Qie (Molecular Path.) PI: Nianli Sang, Kate Beishline (Biochem) PI; Jane Clifford, Zhi Yuan Ma (MCBG) PI: Keith Vosseller, Sonali Jalan (MCBG, *Chair*) PI: Jonathan Chernoff (FCCC), Siddhartha Rawat (MCBG, *Chair*) PI: Michael Bouchard, Molly Kellie (Biochem) PI: Jonathan Chernoff (FCCC), Alimatou Minkeu (Biomedical Engineering, DU) PI: Adrian Shieh, Divya Sagar (Neuroscience) PI: Pooja Jain, Shuyang Chen (Biology, DU) PI: Nianli Sang, Adam Canver (Biomedical Engineering, DU, MD/PhD) PI: Alisa Morss Clyne, Mariana Gadelata (MCBG, *Chair*) PI: Eichi Noguchi, Sumedha Bagga (MCBG, *Chair*) PI: Michael Bouchard,

Current: Total: 12. Chelsea Burgwin (MCBG) PI: Elizabeth Blanckenhorn, Lee Dolat (Biology, DU) PI: Elias Spiliotis, Yu-Hung Huang (MCBG, *Chair*) PI: Janet Sawicki (LMRI), Tim Beck (MCBG, MD/PhD, *Chair*) PI: Erica Golemis (FCCC), Tanu Singh (MCBG, *Chair*) PI: Alana O'Reilly (FCCC), Lindsay Pomykala (Micro & Immuno) PI: Akhil Vaidya, Arpita Mondal (Micro & Immuno) PI: Alexander Muller: (LMRI), Sajitha Anthony (MCBG) PI: Jeffery Peterson (FCCC), Daphney Chery (Biomedical Engineering, DU) PI: Lin Han, Samuel Flashner (M.S., Cancer Biology, *Chair*) PI: Jane Clifford, Fei Shen (Pharmacology) PI: Alessandro Fatatis, Jennifer Gray (MCBG) PI: Edna Cukierman (FCCC).

## Support

### 1. Past and Present Extramural Support:

#### Present:

NIH/NCI, 1R01CA155413-01

Title: Role of nutrient sensor O-GlcNAc transferase in regulating cancer

Award period: 2/11-3/16

Total Direct Costs: \$1,250,000

Role: Principal Investigator

PA Breast Cancer Coalition

Title: Targeting triple negative breast cancers with novel O-GlcNAcylation inhibitors

Award period: 1/15-12/15

Total Direct Costs: \$50,000

Role: Principal Investigator

NIH-NCI NRSA (F31) Predoctoral Fellowship Award, 1F31CA183574  
Title: Understanding role of O-GlcNAcylation on cancer cell metabolism and survival  
Award period: 10/13-1/16  
Total Direct Cost: \$125,079  
Role: Mentor  
PI: Christina Ferrer, Ph.D. Candidate, MCBG Program

NIH-NCI NRSA (F31) Predoctoral Fellowship Award, 1F31CA192868  
Title: Understanding the role of O-GlcNAcylation in regulating cancer lipid metabolism  
Award period: 10/15-9/17  
Total Direct Cost: \$120,357  
Role: Mentor  
PI: Valerie Sodi, Ph.D. Candidate, MCBG Program

**Past:**

U.S. Army, Department of Defense Breast, Cancer Research Program  
Concept Award, BC086596  
Title: MNK2 is Required for Hypoxic-Mediated Cell Survival of Breast Cancer Cells  
Award period: 5/09-4/10  
Total Direct Costs: \$75,000  
Role: Principal Investigator

U.S. Army, Department of Defense, Breast Cancer Research Program  
Idea Award, BC074374  
Title: Targeting Protein O-GlcNAc Modifications in Breast Cancer  
Award period: 8/08-8/10  
Total Direct Costs: \$500,000  
Role: Principal Investigator

U.S. Army, Department of Defense, Breast Cancer Research Program  
Predoctoral Traineeship Award  
Title: Functional role of integrin  $\alpha 5$  in ErbB2-mediated oncogenesis of human mammary epithelial cells.  
Award period: 1/08-12/09  
Total Direct Costs: \$64,800  
Role: Mentor  
PI: Keneshia Haenssen, Ph.D. candidate, MCBG Program

U.S. Army, Department of Defense, Breast Cancer Research Program  
Concept Award, BC062762  
Title: Protein O-GlcNAc Modifications are Required for Breast Cancer Cell Survival  
Award period: 7/07-8/08  
Total Direct Costs: \$75,000  
Role: Principal Investigator

**2. Past and Present Intramural Support:****Present:**

Drexel Univ. Translational Foundation Grants (Tobacco Settlement Funds)

Title: Targeting Microtubule-severing ATPases in Glioblastoma

Award period: 1/15-12/15

Total Direct Costs: \$75,000

Role: Co- Investigator

PI: Christos Katsetos, M.D.,Ph.D. Department of Pediatrics, Drexel University

Drexel Univ. Clinical and Translational Research Institute

Title: Development of targeted therapy against BRCA-deficient familial breast cancer

Award period: 8/15-7/16

Total Direct Cost: \$75,000

Role: Co- Investigator

PI: Alex Mazin, Ph.D., Department of Biochemistry & Molecular Biology, DUCOM

**Past:**

Drexel College of Engineering/College of Medicine Seed Grant Program

Title: Characterization of Altered Cellular Metabolism in Novel Model of Pulmonary Hypertension

Award period: 6/14-7/15

Total Direct Cost: \$25,000

Role: Co-Principal Investigator

P.I: Nancy MacGarvey, M.D., Department of Medicine, DUCOM & CO-PI Alisa Morss Clyne, Ph.D., Department of Mechanical Engineering, Drexel University

Kimmel Cancer Center/Drexel University Pilot Project

Title: Role of Tumor Microenvironment on Progression of ErbB2-positive DCIS into Invasive Cancer

Award period: 5/13-4/14

Total Direct Costs: \$20,000

Role: Principal Investigator

CO-PI: Halgier Rui, M.D./Ph.D., Kimmel Cancer Center, Thomas Jefferson University

Drexel Univ. Translational Foundation Grants (Tobacco Settlement Funds)

Title: Interaction of Interstitial Flow and ErbB2 Signaling in Breast Cancer Invasion

Award period: 1/13-12/13

Total Direct Costs: \$70,000

Role: Principal Investigator

CO-PI: Adrian Shieh, Ph.D. School of Biomedical Engineering, Drexel University

Drexel Univ. Clinical and Translational Pilot Project Grant

Title: Characterization of Altered Cellular Metabolism in Pulmonary Hypertension

Award period: 5/12-12/12

Total Direct Costs: \$13,000

Role: Co-Principal Investigator

PI: Nancy MacGarvey, M.D., Department of Medicine, Division of Pulmonary Medicine, DUCOM



Drexel Univ. Translational Foundation Grants (Tobacco Settlement Funds)  
Title: Role of cytoskeletal dynamics in radiation-induced breast cancer invasion  
Award period: 1/11-12/11  
Total Direct Costs: \$55,000  
Role: Principal Investigator  
CO-PI: Peter Baas, Ph.D., Gianluca Gallo, Ph.D. Department of Neurobiology & Anatomy, DUCOM

Drexel Univ. Translational Foundation Grants (Tobacco Settlement Funds)  
Title: Identification of Biomarkers and Therapeutic Targets in 3D Hypoxic Breast Cancer Model  
Award period: 2/09-1/10  
Total Direct Costs: \$125,000 (renewed)  
Role: Co-Principal Investigator  
Collaborators: Gregg Johannes, Ph.D. (PI) and Fernando Garcia, M.D. Department of Pathology & Laboratory Medicine, DUCOM

Drexel Univ. Translational Foundation Grants (Tobacco Settlement Funds)  
Title: Role of O-GlcNac Transferase as a Biomarker and Therapeutic Target for Prostate Cancer  
Award period: 2/09-1/10  
Total Direct Costs: \$75,000  
Role: Principal Investigator  
CO-PI: Fernando Garcia, M.D. Department of Pathology & Laboratory Medicine and Keith Vosseller, Ph.D., Department of Biochemistry & Molecular Biology

Drexel Univ. Translational Foundation Grants (Tobacco Settlement Funds)  
Title: Identification of Biomarkers and Therapeutic Targets in 3D Hypoxic Breast Cancer Model  
Award period: 1/08-1/09  
Total Direct Costs: \$75,000  
Role: Co-Principal Investigator  
Collaborators: Gregg Johannes, Ph.D. (PI) and Fernando Garcia, M.D. Department of Pathology & Laboratory Medicine

Drexel Univ. Translational Foundation Grants (Tobacco Settlement Funds)  
Title: Targeting Protein O-GLcNAc Modifications in Breast Cancer  
Award period: 1/07-1/08  
Total Direct Costs: \$100,000  
Role: Principal Investigator  
CO-PI: Keith Vosseller, Ph.D., Department of Biochemistry & Molecular Biology, DUCOM

**Graduate Students, Postdoctoral Fellows and Postgraduate Medical Trainees  
Graduated Ph.D. students: Total: 6**

1. *Keneshia Haenssen, Ph.D.*, MCBG Graduate Program, Drexel University College of Medicine, 2006-2010

Thesis Title: Functional role of integrin  $\alpha 5$  in ErbB2-mediated oncogenesis of human mammary epithelial cells.

\*Received Department of Defense Breast Cancer Research Program  
Predoctoral Traineeship Award: 1/08-12/09 (\$64,800)

\*Received Honorable Mention, Platform Presentation Speaker, Discovery  
Day 2005: Drexel University College of Medicine

- UNCF/Merck Postdoctoral Fellowship, laboratory of  
Dr. Edmund Lattime, Deputy Director & Professor, The Cancer Institute  
of New Jersey, Robert Wood Johnson Medical School/UMDNJ.

- Current Position: Senior Scientist, Oncobiologics Inc.

2. *Kelly Whelan, Ph.D.*, MCBG Graduate Program, Drexel University College of Medicine, 2007-2011

Thesis title: Hypoxia/HIF-1 regulation of mammary morphogenesis and oncogenesis.

\*Received 3<sup>rd</sup> Prize, Outstanding Junior Graduate Student Poster,  
Discovery Day 2007:Drexel University College of Medicine

\*Selected Platform Presentation Speaker, Discovery Day 2009: Drexel  
University College of Medicine

-Current Position: NIH-NRSA Postdoctoral Fellowship, laboratory of Dr.  
Anil Rustgi, Chief and Professor, Division of Gastroenterology,  
Department of Medicine, Abramson Cancer Center, University of  
Pennsylvania.

3. *Thomas P. Lynch, Ph.D.*, MCBG Graduate Program, Drexel University College of Medicine, 2008-2012

Thesis title: Role of O-GlcNAc Transferase in Cancer Cell Metastasis and Metabolism.

\*Selected Platform Presentation Speaker, Discovery Day 2010: Drexel  
University College of Medicine

\*Chosen for platform presentation at 2011 The Biology of Cancer:  
Microenvironment, Metastasis & Therapeutics at Cold Spring Harbor  
Labs, Cold Spring Harbor, NY

\*Awarded Keystone Symposia Future of Science Fund travel scholarship  
to present his research at 2012 Keystone Symposia on Cancer and  
Metabolism, Banff, Canada

-Current Position: NJ Commission on Cancer Research Postdoctoral  
Fellowship, laboratory of Dr. Estela Jacinto, Associate Professor Dept. of  
Biochemistry & Molecular Biology, The Cancer Institute of New Jersey,  
UMDNJ-Robert Wood Johnson Medical School.

4. *Diane Kambach, Ph.D.*, MCBG-Mol. Path. Graduate Program, Drexel University College of Medicine, 2010-2012 Co-mentor with Dr. Jane Clifford.  
Thesis title: Mechanisms Regulating Breast Cancer Invasion in Response to Ionizing Radiation

\*Selected Platform Presentation Speaker, Discovery Day 2011: Drexel  
University College of Medicine

\*Awarded DUCOM GSA Student Travel Award to present work at 2012  
AACR Annual Meeting, Chicago

- Current Position: Postdoctoral Fellowship, laboratory of Dr. Jayne Stommel, Investigator, Radiation Oncology Branch, National Cancer Institute, NIH
5. *Sergey Karakashev*, Biochemistry Graduate Program, Drexel University College of Medicine, 2011-2015  
Thesis title: The Role of Hypoxia in Mediating Resistance to Breast Cancer Therapy
- \*Received 3<sup>rd</sup> Prize, Outstanding Senior Graduate Student Poster, Discovery Day 2012:Drexel University College of Medicine
  - \*Selected for short talk platform presentation at 2013 Third AACR International Conference on Frontiers in Basic Cancer Research in National Harbor, Maryland
  - \*Awarded DUCOM GSA Student Travel Award to present his research at 2014 AACR Annual Meeting, San Diego, CA
  - \*Awarded DUCOM GSA Fellowship Award (\$2,000) for thesis project
  - \*Received 2<sup>nd</sup> Prize, Best Graduate Student Poster, 2014 Sidney Kimmel Cancer Center Consortium, Thomas Jefferson University
  - \*Selected Platform Presentation Speaker, Discovery Day 2014: Drexel University College of Medicine
- Current Position: Postdoctoral Fellowship, laboratory of Dr. Rugang Zhang, Associate Professor, Gene Expression and Regulation Program, Wistar Institute
6. *Christina Ferrer*, MCBG Graduate Program, Drexel University College of Medicine, 2010-2015  
Thesis title: O-GlcNAcylation: Linking Metabolic Reprogramming to cancer Cell Survival, Invasion and Metastasis.
- \*Awarded NIH NCI Pre-Doctoral Minority Supplemental Fellowship (8/12-7/15, \$65,000)
  - \*Received 1<sup>st</sup> Prize, Outstanding Senior Graduate Student Poster, Discovery Day 2012:Drexel University College of Medicine
  - \*Awarded Keystone Symposia-NIGMS Ancillary Training Program travel scholarship to present her research at 2013 Keystone Symposia on Tumor Metabolism, Keystone CO
  - \*Received travel award and chosen for short talk platform presentation at 2013 Cancer Biology & Therapeutics meeting at Cold Spring Harbor Labs, Cold Spring Harbor, NY
  - \*Received NIH-National Cancer Institute NRSA (F31) Predoctoral Fellowship Award: 10/13-09/15 (\$125,079)
  - \*Selected Platform Presentation Speaker, Discovery Day 2013: Drexel University College of Medicine
  - \*Received travel award and chosen for short talk platform presentation at 2014 Mechanisms & Models of Cancer meeting at Cold Spring Harbor Labs, Cold Spring Harbor, NY
  - \*Received Bondi Fellowship Award for excellence in research at Discovery Day 2014: Drexel University College of Medicine

\*Awarded Keystone Symposia-NIGMS Ancillary Training Program travel scholarship and chosen for short talk platform presentation at 2015 Keystone Symposia on Biology of Sirtuins, Santa Fe NM

\* Awarded AACR Scholar-in-Training Award to attend 2015 AACR Annual Meeting at Philadelphia PA

-Current Position: Postdoctoral Fellowship, laboratory of Dr. Raul Mostoslavsky, Associate Professor, Massachusetts General Hospital/Harvard Medical School

**Graduated Masters student: Total: 2**

1. *Sakina Khaku*, M.S., MCBG Graduate Program 2010-2012  
Thesis title: O-GlcNAc Transferase Expression is Regulated by mTOR and Myc pathways in cancer cells.  
-Current Position: Associate Scientist, Vaccine Development, Merck & Co., West Point, PA
2. *Asma Ashraf*, M.S., Drug Discovery & Development Graduate Program 2012-2014  
Thesis title: Reducing O-GlcNAcylation Sensitizes Breast Cancer Cells to Lapatanib.  
-Current Position: Research Scientist, Department of Cell Biology, Advanced Bioscience Laboratories Inc., Rockville, MD

**Current Ph.D. students: Total: 4**

1. *Valerie Sodi*, MCBG Graduate Program, since Summer 2012  
\*Received 1<sup>st</sup> Prize, Outstanding Junior Graduate Student Poster, Discovery Day 2012:Drexel University College of Medicine  
\*Awarded DUCOM GSA Student Travel Award to present her research at 2013 Keystone Symposia on Tumor Metabolism, Keystone, CO  
\*Received 3<sup>rd</sup> Prize, Best Graduate Student Poster, 2014 Sidney Kimmel Cancer Center Consortium, Thomas Jefferson University.  
\*Awarded Dean's Graduate Student Travel Award to present her research at 2015 Biology of Cancer meeting at Cold Spring Harbor Labs, Cold Spring Harbor, NY  
\*Received NIH-National Cancer Institute NRSA (F31) Predoctoral Fellowship Award: 7/15-06/17 (\$123,830)  
\*Selected Platform Presentation Speaker, Discovery Day 2015: Drexel University College of Medicine
2. *Neha Manjari Akella*, Biochemistry Program, since Fall 2014.
3. *Zachary Bacigalupa*, MCBG Graduate Program, since Spring 2015.  
\*Awarded Dean's Graduate Student Travel Award to present his research at 2016 Keystone Symposium: New Frontiers in Understanding Tumor Metabolism in Banff, Alberta, Canada
4. *Peter Michener*, MCBG Graduate Program, since Spring 2015.

**Ph.D., Rotation Students: Total: 24.** Keneshia Haenssen (MCBG) Spring 2005, Aleem Choudhary (Biochem) Spring 2005, Adam Leham (MCBG) Fall 2005, Mike Amatangelo (MCBG) Spring 2006, Kelly Whelan (MCBG) Summer 2006, Jeff Pawlikowski

(Biochem) Fall 2006, Emily Butte (Molecular Pathology) Spring 2007, Thomas Lynch (MCBG) Fall 2007, Benjamin Stager (MCBG) Spring 2008, Geetika Sethi (Biochem) Spring 2008 \*Received 3<sup>rd</sup> Prize, Best Poster Junior Graduate Student, Discovery Day 2008 DUCOM, Zhiyuan Ma (MCBG) Fall 2008, Shuo Qie (Molecular Pathology) Fall 2009, Sumedha Bagga (MCBG) Spring 2010, Scott Melideo (Biochem) Fall 2010, Christina Ferrer (MCBG) Fall 2010, Patrice Worthy (Biochem) Winter 2011, Sergey Karakashev (Biochem) Spring 2011, Valerie Sodi (MCBG) Fall 2011, Tim Nacarelli (MCBG) Spring 2012, Mallory Zvarick (MCBG) Fall 2012, Arpita Mondal (Micro & Immuno) Winter 2013, Neha Manjari Akella (Biochem) Fall 2013, Peter Michener (MCBG) Spring 2015, Kristopher Raghavan (MCBG) Fall 2015.

**Medical Student, Research Advisor: Total: 5.** Ashley S. Doane, Spring/Summer 2009; \*Received Medical Student Summer Research Fellowship, DUCOM, 2009, Kaitlin Ritter, Summer 2011 (Co-mentor with Laura Steel, Ph.D.); \*Received Medical Student Summer Research Fellowship, DUCOM, 2011, \*Received 2<sup>nd</sup> Prize, Best Poster Medical Student, Discovery Day 2011:DUCOM, John Falcone, Summer 2012 \*Received 1<sup>st</sup> Prize, Outstanding Medical Student Poster, Medical Student Research Day 2013:DUCOM, Sean Breslin, Summer 2013 (Co-mentor with Nancy MacGarvey, M.D.) \*Received Medical Student Summer Research Fellowship, DUCOM, 2013, \*Received 2<sup>nd</sup> Prize, Outstanding Medical Student Poster, Medical Student Research Day 2014, DUCOM. Harun Thimmiah, Summer 2015, \*Received Medical Student Summer Research Fellowship, DUCOM, 2015.

**Masters Rotation Students, Research Advisor: Total: 15.** Hsiang-Hwa (Shawn) Chen (IMS Program) Fall 2005-Spring 2006, Nada Abdel-Magid (MCBG) Winter 2008, Celal Emre Yetkin (MCBG) Fall 2010, Sakina Khaku (MCBG) Spring 2011, Suyash Bhatnagar (MCBG) Spring 2012, Matthew Leberer (MMS Program) Fall-2012, Asma Ashraf (Drug Discovery & Development) Summer 2013, \*Received Honorable Mention, Junior Graduate Student Poster, Discovery Day 2013, DUCOM, Zachary Bacigalupa (Cancer Biology) Fall 2013, Tracey Yenilaitus (Biochem) Winter 2014, Samuel Flashner (Cancer Biology) Winter 2014, Tong Lu (Cancer Biology) Spring 2014, Safoora Deihimi (Cancer Biology) Fall 2014, Kelly Geosits (MCBG) Spring 2015, Justine Gandia-Jackson (Drug Discovery & Development) Spring 2015, Dimpri Mukhopadhyay (Cancer Biology) Fall 2015.

**Summer Undergraduate Research Fellowship (SURF) students: Total: 8.** Kristina Shahriari, Carnegie Mellon University, Summer 2005 & 2006, \*Received 2<sup>nd</sup> Prize, Best Poster, Carnegie Mellon's Undergraduate Research Symposium, May 2007, Pritika Gupta, Haverford College, Summer 2007, Ian Henderson, University of Maryland, Summer 2008, Summer 2009, John Falcone, Drexel University, Summer 2010, Summer 2011, Sabita Gautam, Wesleyan College, Summer 2012, Kelvin Soewono, Rutgers University, Summer 2012, Ling Huang, Johns Hopkins University, Summer 2013, Nicholas Xerri, University of Pittsburgh, Summer 2014, Summer 2015.

**Undergraduates: Total: 13.** Deborah Healy, DU Undergraduate Research, Ronak Shah, DU Work-study student, Greg Conner, DU Work-study student, Divya Enika, DU Work-

study student, Freddy Padilla, DU Work-study student, John Falcone, DU Work-study student, \*STAR Program Summer 2010., \*Selected to present project at National Conference on Undergraduate Research, Salt Lake City, Utah 2012, \*Received 2<sup>nd</sup> Prize, Best Poster College of Arts and Sciences Research Day 2012, Drexel University, Katerina Hatzis, DU Work-study student, Christopher Schultz, DU Work-study student, \*STAR Program Summer 2011, Geena John, DU Work-study student, Kevin Truskowski, DU Work-study student, Andrea Lomotan, DU Work-study student, Zachary Cirelli, DU Work-study student, Jenna Marinock, DU, CO-OP student.

**International Student: Total: 2.** Rosario Yerbes, Ph.D. Candidate, Centro Andaluz de Biología Molecular y Medicina Regenerativa, Sevilla, Spain Fall 2007, Maria Drexler, Undergraduate, Ludwig-Maximilians-Universitaet Muenchen, Munich, Germany Fall 2010.

### Publications—Peer-Review Journals

Scopus *h*-index: 23 as of Dec 2015 (102 average citations/publication)

#### ***Peer-reviewed articles published prior to joining Drexel faculty:***

1. Macia, R. A., Gabel, R. A., **Reginato, M. J.**, and W. D. Matthews. (1990) Hypotension induced by growth hormone releasing peptide is mediated by mast cell serotonin release in the rat. Tox. And Appl. Pharmacol. 104: 403-410.
2. Katz, D., **Reginato, M. J.**, and Lazar, M. A. (1995) Functional regulation of thyroid hormone receptor variant TR $\alpha$ 2 by phosphorylation. Mol. Cell. Biol. 15, 2341-2348.
3. **Reginato, M. J.**, Zhang, J., and Lazar M. A. (1996) DNA-independent and DNA-dependent mechanisms regulate the differential heterodimerization of the isoforms of the thyroid hormone receptor with retinoid X receptor. J. Biol. Chem. 271, 28199-28205.
4. Cheng, X., **Reginato, M. J.**, Andrews, N., and Lazar, M. A. (1997) The Transcriptional integrator CBP mediates positive crosstalk between nuclear hormone receptors and the hematopoietic bZip protein p45/NF-E2. Mol. Cell. Biol. 17, 1407-1416.
5. Schwarz, E. J., **Reginato, M. J.**<sup>#</sup>, Shao, D., Krakow, S. L., and Lazar, M. A. (1997) Retinoic acid blocks adipogenesis by inhibiting C/EBP $\beta$ -mediated transcription. Mol. Cell. Biol. 17, 1552-1561. <sup>#</sup> co-first author
6. Adams, M., **Reginato, M. J.**<sup>#</sup>, Shao, D., Lazar, M. A., and Chatterjee, K. (1997) Transcriptional activation by peroxisome proliferator-activated receptor  $\gamma$  is inhibited by phosphorylation at a consensus mitogen-activated protein kinase site. J. Biol. Chem. 272, 5128-5132. <sup>#</sup> co-first author
7. **Reginato, M. J.**, Krakow, S. L., Bailey, S. T., and Lazar, M. A. (1998) Prostaglandins promote and block adipogenesis through opposing effects on PPAR $\gamma$ . J. Biol. Chem. 273, 1855-1858.

8. Shao, D., Rangwala, S. M., Bailey, S. T., Krakow, S. L., **Reginato, M. J.**, and Lazar, M. A. (1998) Interdomain communication regulating ligand binding by PPAR $\gamma$ . Nature 396, 377-380.
9. **Reginato, M. J.**, Bailey, S. T., Krakow, S. L., Minami, C., Ishii, S., Tanaka, H., and Lazar, M. A. (1998) A potent antidiabetic thiazolidinedione with unique PPAR $\gamma$ -activating properties. J. Biol. Chem. 273, 32679-32684.
10. Debnath, J., Mills, K. R., Collins, N., **Reginato, M. J.**, Muthuswamy S., and Brugge, J. S. (2002) The role of apoptosis in creating and maintaining luminal space within normal and oncogene expressing mammary acini. Cell 111, 29-40.
11. **Reginato, M. J.**, Mills, K. R., Paulus, J. K., Lynch, D. K., Sgroi, D.C., Debnath J., Muthuswamy S., and Brugge, J. S. (2003) Integrins and EGFR coordinately regulate the pro-apoptotic protein Bim to prevent anoikis. Nature Cell Biol. 5, 733-740.
13. Mills. K. R., **Reginato, M. J.**, Debnath, J., Queenan, B., and Brugge, J. S. (2004) Tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) is required for induction of autophagy during lumen formation in vitro. Proc. Natl. Acad. Sci. USA, 101, 3438-3443.
14. Martin, S., Ridgeway, A., Pinkas, J., Lu, Y., **Reginato, M. J.**, Koh, E., Michelman, M., Brugge, and Leder, P. (2004) A cytoskeleton-based functional genetic screen identifies Bcl-xL as an enhancer of metastasis, but not primary tumor growth. Oncogene, 23, 4641-4645.
15. Yan, S. R., Joseph, R. R., Rosen, K., **Reginato, M. J.**, Jackson, A., Allaire, N., Brugge, J. S., Jobin, C., and Stadnyk, A. W. (2005) Activation of NF-kappa-B following detachment delays apoptosis in intestinal epithelial cells. Oncogene, 24, 6482-6491.
16. Collins, N., **Reginato, M. J.**, Paulus, J. K., Witt, A., LeBear, J., and Brugge, J. S. (2005) G1/S cell cycle arrest provides anoikis resistance through Erk-mediated Bim suppression. Mol. Cell. Biol. 25, 5282-5291. (ASM News (2005), Journal Highlights , 71, p325)
17. **Reginato, M. J.**, Mills, K. R., Becker, E.B., Lynch, D.K., Bonni, A., Muthuswamy S., and Brugge, J. S. (2005) Bim regulation of lumen formation in cultured mammary epithelial acini is targeted by oncogenes. Mol. Cell. Biol. 25, 4591-4601. (ASM News (2005), Journal Highlights , 71, p325)

***Peer-reviewed articles published while affiliated with Drexel:***

18. Sodunke, T. R., Turner, K. K., Caldwell, S. A., McBride, K. W., **Reginato, M. J.** and Noh, N. (2007) Micropatterns of Matrigel for Three-Dimensional Epithelial Cultures. Biomaterials 28:4006-16. (co-corresponding author)
19. Haenssen, K. K., Caldwell, S. A., Shahriari, K., Jackson, R., Whelan, K., Klein-Szanto, A., and **Reginato, M. J.** (2010) ErbB2 requires integrin  $\alpha 5$  for anoikis resistance via c-Src regulation of receptor activity in human mammary epithelial cells. J. of Cell Science, Apr 15; 123:1373-82.

20. Caldwell, S. A., Jackson, S. R., Shahriari, K. S., Lynch, T., Sethi, G., Walker, S., Vosseller, K., and **Reginato, M. J.** (2010) Nutrient Sensor O-GlcNAc Transferase Regulates Breast Cancer Tumorigenesis via Targeting of the Oncogenic Transcription Factor FoxM1. *Oncogene*, May 13; 29:2831-42.
21. Whelan, K. A., Caldwell, S. A., Shahriari, K., Jones, L., Johannes, G. and **Reginato, M. J.** (2010) Hypoxia Blocks Anoikis and Lumen Formation of Cultured Mammary Epithelial Acini via Inhibition of BH3-only Proteins Bim and Bmf. *Mol. Biol. Cell* Nov; 21:3829-37.
22. Yerbes, R., Palacios, C., **Reginato, M. J.** and López-Rivas A. (2011) Cellular FLIP<sub>L</sub> plays a survival role and regulates morphogenesis in breast epithelial cells. *Biochim Biophys Acta*. Jan;1813(1):168-78.
23. Botta, G. P., **Reginato, M. J.**, Reichert, M., Rustgi, A. K. and Lelkes, P. I. (2012) Constitutive K-RasG12D activation of ERK2 specifically regulates 3D invasion of human pancreatic cancer cells via MMP-1. *Mol Cancer Res.*, Feb; 10: 183-96. (article featured in *Highlights of This Issue*, p118)
24. Lynch, T. P., Ferrer, C. M., Jackson, S. R., Shahriari, K. S., Vosseller, K. and **Reginato, M. J.** (2012) Critical role of O-GlcNAc transferase in prostate cancer invasion, angiogenesis and metastasis. *J. Biol Chem*, March 30; 287 (14): 11070-81.
25. Yerbes, R., López-Rivas A. **Reginato, M. J.** and Palacios, C. (2012) Control of FLIPL expression and TRAIL resistance by the extracellular signal regulated kinase (ERK)1/2 pathway in breast epithelial cells. *Cell Death Differ* Dec; 19 (12): 1908-16.
26. Botta, G. P., Reichert, M. **Reginato, M. J.**, Heeg, S., Rustgi, A. K. and Lelkes, P. I. (2013) ERK2-regulated TIMP1 induces hyperproliferation of K-Ras (G12D)-transformed pancreatic ductal cells. *Neoplasia* Apr 15 (4): 359-72
27. Kambach, D. M., Sodi, V., Lelkes, P. I., Azizkhan-Clifford, J., and **Reginato, M. J.** (2014) ErbB2, FoxM1, and 14-3-3 $\zeta$  prime breast cancer cells for invasion in response to ionizing radiation. *Oncogene* Jan 30;33(5): 589-98.
28. Whelan, K. A. Schwab, L., Karakashev, S., Franchetti, L., Johannes, G. J., Seagroves, T. N., and **Reginato, M. J.** (2013) The oncogene HER2/neu (erbB2) requires the hypoxia-inducible factor (HIF-1) for mammary tumor growth and anoikis resistance. *J. Biol Chem*, May 31; 288(22): 15865-77.
29. Ferdin, J., Wu, X., Nishida, N. Nicoloso, M. S., Shah, N. M., Devlin, C., Ling, H., Shimizu, M., Kumar, K., Cortez, M. A., Ferracin, M., Bi, Y., Yang, D., Czerniack, B. A., Zhang, W., Schmittgen, T. D., Voorhoeve, M. P., **Reginato, M. J.**, Negrini, M., Davuluri, R. V., Kunej, T., Ivan, M., and Calin, G.A. (2013) HINCUTs in Cancer:



Hypoxia-Induced Non-Coding Ultraconserved Transcripts. Cell Death Differ Dec; 20(12):1675-87.

30. Martin-Perez, R., Palacios, C., Yerbes, R., Cano-Gonzales, A., Iglesias-Serret, D., Gil, J., **Reginato, M. J.** and López-Rivas A. (2014) Activated HER2 licenses sensitivity to apoptosis upon endoplasmic reticulum stress through a PERK-dependent pathway. Cancer Research Mar 15;74(6):1766-77

31. Ferrer, C. M., Lynch, T. P., Sodi, V., Falcone, J. N., Schwab, L., Peacock, D., Voadlo, D.J., Seagroves, T. N. and **Reginato, M. J.** (2014) O-GlcNAcylation regulates cancer metabolism and survival stress signaling via regulation of HIF-1 pathway. Molecular Cell; June 5;54(5); 820-31

32. Karakashev, S. V. and **Reginato, M. J.** (2015) Hypoxia/HIF-1 $\alpha$  induces lapatinib resistance in ERBB2-positive breast cancer cells via regulation of DUSP2. Oncotarget Feb 10;6:1967-80.

33. Tchafa, A. M., Ta, M., **Reginato, M. J.** and Shieh A. C. (2015) Epithelial-to-mesenchymal transition alters interstitial fluid flow-induced signaling in ERBB2-positive breast cancer cells. Molecular Cancer Research Apr;13(4):755-64. (*co-corresponding author*)

34. Sodi, V. L., Khaku, S., Schwab, L. P., Voadlo, D. J., Seagroves, T. N. and **Reginato, M. J.** (2015) mTOR/MYC axis regulates O-GlcNAc transferase expression and O-GlcNAcylation in breast cancer. Molecular Cancer Research May;13(5):923-33 (article featured in *Highlights of This Issue*).

Manuscripts in review:

1. Ortiz-Meoz, R. F., Jiang, J., Lazarus, M., Orman, M., Tan, Z. W., Fan, C. Duveau, D. Y., Ferrer, C.M., **Reginato, M. J.**, Thomas, C. J., Voadlo, D. J., Walker, S. (2015) A small molecule OGT inhibitor that blocks histone H2B glycosylation (*submitted*).
2. Ferrer, C. M., Lu, T. Y., Bacigalupa, Z. A., Katsetos, C. D., Sinclair, D. A. and **Reginato, M. J.** (2015) O-GlcNAcylation regulates breast cancer metastasis via modulation of FoxM1 pathway (Oncogene, *under review*).

INVITED REVIEWS:

1. **Reginato, M. J.**, and Lazar, M. A. (1999) Mechanisms by which thiazolidinediones enhance insulin action. Trends Endocrinol. Metab. 10, 9-13.

2. **Reginato, M. J.** and Muthuswamy, S. K. (2006) Illuminating the center: Mechanisms regulating lumen formation and maintenance in mammary morphogenesis. J. Mammary Gland Bio & Neoplasia. 11:205-11.

3. Whelan, K. A. and **Reginato, M. J.** (2011) Surviving without oxygen: Hypoxia regulation of mammary morphogenesis and anoikis. Cell Cycle, Jul 15; 10: 2287-94.
4. Lynch, T. P. and **Reginato, M. J.** (2011) O-GlcNAc Transferase: A sweet new cancer target. Cell Cycle, Jun 1; 10: 1712-13.
5. Ferrer, C. M., and **Reginato, M. J.** (2014) Sticking to Sugars at the Metastatic Site: Sialyltransferase ST6GalNAc2 acts as Breast Cancer Metastasis Suppressor. Cancer Discovery, March 4(3); 275–7.
6. Katsetos, C. D., **Reginato, M.J.**, Baas, P.W., D'Agostino, L., Legido, A., Tuszynski, J.A., Dráberová, E., Dráber, P. (2015) Emerging microtubule targets in glioma therapy. Semin Pediatr Neurol. Mar;22(1):49-72.
7. Ferrer, C. M., and **Reginato, M. J.** (2015) Sweet Connections: O-GlcNAcylation links cancer metabolism and survival. Molecular & Cellular Oncology (*in press*)
8. Karakashev, S. V., and **Reginato, M. J.** (2015) Progress towards overcoming hypoxia-induced resistance in solid tumor therapy. Cancer Management and Research (*in press*)
9. Ferrer, C. M., Sodi, V. L. and **Reginato, M. J.** (2015) Role of glycosylation on oncogenic signaling pathways. Journal of Molecular Biology (*in preparation*)

***Books and chapters in books (invited)***

Ferrer, C. M., and **Reginato, M. J.** (2014) Cancer Metabolism: Cross Talk Between Signaling and O-GlcNAcylation. Cancer Genomics and Proteomics: Methods and Protocols, Methods in Molecular Biology, Springer, Narendra Wajapeyee (Ed.) 1176:73-88.

***Other Communications:***

**PATENTS:**

**Reginato, M. J.**, and Vosseller, K. V. United States National Phase Application o. 12,679,562 filed October 3, 2007 "Methods For Treating Neoplastic Disease Targeting O-Linked N-Acetylglucosamine Modifications Of Cellular Proteins"

**Presentations (since 2004)**

***1. Invited lectures:***

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|------------|--|
| March 2016 | “Nutrient sensor O-GlcNAcylation: Linking metabolism and signaling in cancer” The Lankenau Institute for Medical Research, Wynnewood, PA. Host: Margaretha Wallon, Ph.D. |
| Dec 2015   | “Signaling pathways regulating hormone-independent breast cancers” Sidney Kimmel Cancer Center Consortium Basic  |

- Scientific Retreat, Thomas Jefferson University, Philadelphia PA.  
Host: Karen Knudsen, Ph.D.
- Oct 2015      *“Nutrient sensor O-GlcNAcylation: Linking metabolism and signaling in cancer”* University of Antofagasta, Antofagasta, Chile, Host: Cristina Dorador, Ph.D.
- July 2015      *“Nutrient sensor O-GlcNAcylation: Linking metabolism and signaling in cancer”* Origins of Cancer Symposium, Van Andel Research Institute, Grand Rapids, Michigan, Host: George Vande Woude, Ph.D.
- May 2015      *“Nutrient sensor O-GlcNAcylation: Linking metabolism and signaling in cancer”* Molecular and Cellular Oncogenesis Program, Wistar Institute, Philadelphia PA, Host: Maureen Murphy, Ph.D.
- Feb 2015      *“Integrating Signaling, Transcription, and Metabolic Pathways in Cancer”* Department of Chemistry and Biochemistry, Rider University, Lawrenceville, NJ, Host: Barry Spiegelberg, Ph.D.
- Jan 2015      *“Sweet Connections: Glycosylation Links Cancer Cell Metabolism to Survival”* Cancer Biology Program, Fox Chase Cancer Center, Philadelphia PA, Host: Jeffrey Peterson, Ph.D.
- November 2014      *“Sweet Connections: Glycosylation Links Cancer Cell Metabolism to Survival”* Graduate Center for Toxicology, The Markey Cancer Center, University of Kentucky College of Medicine, Lexington, KY, Host: Qiou Wei, M.D./Ph.D.
- Oct 2014      *"Breast Cancer Biology: Recent Progress & Discoveries"* 3rd Annual Symposium on Breast Cancer, Antofagasta, Chile, Host: Nuvia Aliaga, M.D.
- May 2014      *“A Sweet Way to Die: Glycosylation Links Cancer Cell Metabolism to Survival”* Department of Biology, Drexel University, Host: Laura Duwel, Ph.D.
- April 2014      *“A Sweet Way to Die: Glycosylation Links Cancer Cell Metabolism to Survival”* Department of Biochemistry and Molecular Biology, Drexel University College of Medicine, Host: Jane Clifford, Ph.D.
- March 2014      *“Role of hypoxia/HIF-1 $\alpha$  on lapatinib resistance in ErbB2-positive breast cancer”* Cancer Cell Biology & Signaling Program,

- Kimmel Cancer Center, Thomas Jefferson University, Philadelphia PA. Host: Andrew Aplin, Ph.D.
- November 2013 “*Modeling Cancer in Three Dimensions*” The Creativity and Innovation Colloquia, Drexel University, Host: Drexel University, Graduate Student Association
- June 2013 “*Interplay Between O-GlcNAcylation and Cancer*” International Symposium on Molecular Medicine and Infectious Disease, Drexel University College of Medicine, Host: Brian Wigdahl, Ph.D.
- April 2013 “*Research Models for 3D Growth of Breast Cancer Cells*” Breast Cancer Research Program, Kimmel Cancer Center, Thomas Jefferson University, Philadelphia PA, Host: Hallgier Rui, M.D./Ph.D.
- April 2013 “*Nutrient Sensor O-GlcNAcylation: A Sweet Role in Cancer Cell Metabolism and Survival*” Joint Seminar Series/Microbiology & Immunology/Biochemistry/Cancer Biology/Kimmel Cancer Center, Thomas Jefferson University, Philadelphia PA, Host: Richard Davidson, Ph.D.
- Nov 2012 “*Integrating Signaling, Transcription, and Metabolic Pathways in Cancer*” Department of Biology, Drexel University, Philadelphia PA, Host: Jennifer Stanford, Ph.D.
- Oct 2012 “*Integrating Signaling, Transcription, and Metabolic Pathways in Cancer*” Department of Biochemistry and Molecular Biology, Drexel University College of Medicine, Host: Jane Clifford, Ph.D.
- Sept 2012 “*Integrating Signaling, Transcription, and Metabolic Pathways in Cancer*” Department of Pharmacology, University of Pennsylvania School of Medicine, Philadelphia PA, Host: Marcelo Kazanietz, Ph.D.
- July 2012 “*Taking Sugar from Cancer: Targeting O-GlcNAcylation in Tumorigenesis*” Institute for Hepatitis and Virus Research, Doylestown PA, Host: Tim Block, Ph.D.
- June 2012 “*Cancer in 3D: Mechanisms of Breast Cancer Survival, Invasion, and Metabolism*” Cancer Cell Biology & Signaling Program, Kimmel Cancer Center, Thomas Jefferson University, Host: Jeffrey Benovic, Ph.D.
- May 2012 “*O-GlcNAcylation: A Sweet Role in Cancer Cell Survival*” Interdisciplinary Symposium on Invasion, Homing and Survival of

- Cancer Cells, Drexel University College of Medicine, Host: Noreen Robertson, DMD
- May 2012      *“Taking Sugar from Cancer: Targeting O-GlcNAcylation in Tumorigenesis”* Research and Development Department, Medical Diagnostic Laboratories, HUMIGEN, The Institute of Genetic Immunology, Hamilton NJ, Host: Joseph Nickels, Ph.D.
- Sept 2011      *“O-GlcNAc Nutrition Sensor Regulates Tumorigenesis”* XXVIII Jean-Claude Dreyfus Symposium on “Obesity, Diabetes and Cancer”, INSERM, Institut Cochin, Paris France, Host: Ralf Jockers, Ph.D.
- June 2011      *“Surviving without oxygen: Hypoxia/HIF regulation of mammary morphogenesis and oncogenesis”* Interdisciplinary Symposium on Oxygen: From Molecular Mechanisms to Real-Time Monitoring, Translational Medicine & Applied Biotechnology, Drexel University College of Medicine, Philadelphia PA, Host: Noreen Robertson, DMD
- April 2011      *“O-GlcNAc Transferase: A sweet new target for cancer”* Ontario Cancer Institute, University of Toronto, Toronto Canada, Host: Senthil Muthuswamy, Ph.D.
- Nov 2010      *“O-GlcNAc Transferase: A sweet new target for cancer”* GlaxoSmithKline, Cancer Metabolism Group, Collegeville PA, Host: Benjamin Schwartz, Ph.D.
- July 2009      *“Understanding Breast Cancer Using 3D In Vitro Culture Models”* Department of Cancer Biology, University of Pennsylvania School of Medicine, Abramson Cancer Center, Philadelphia PA, Host: Roger Greenberg, M.D./Ph.D.
- May 2009      *“Identification of Biomarkers and Therapeutic Targets in 3D Hypoxic Breast Cancer”* Interdisciplinary Seminar Series, Translational Medicine & Applied Biotechnology, Drexel University College of Medicine, Host: Noreen Robertson, DMD
- May 2008      *“Understanding Breast Cancer in Three Dimensions: Mechanisms of HER2/ErbB2-Mediated Oncogenesis”* Sol Sherry Thrombosis Research Center, Temple University School of Medicine, Philadelphia PA, Host: Satya Kunapuli, Ph.D.
- May 2008      *“Understanding Breast Cancer Using 3D In Vitro Culture Models”* Breast Cancer Interdisciplinary Scientific Symposium, Translational Medicine & Applied Biotechnology Working Group,

- Drexel University College of Medicine, Host: Noreen Robertson, DMD
- April 2008      *“Targeting Breast Cancer in Three Dimensions: Mechanisms of HER2/ErbB2-Mediated Oncogenesis”* Prostate Cancer Initiative Network, Department of Pathology & Laboratory Medicine, Drexel University College of Medicine, Host: Mark Stearns, Ph.D.
- April 2008      *“Targeting Breast Cancer in Three Dimensions: Mechanisms of HER2/ErbB2-Mediated Oncogenesis”* Department of Biochemistry and Molecular Biology, Drexel University College of Medicine, Host: Jane Clifford, Ph.D.
- Jan 2007        *“Modeling Breast Cancer in 3D”* Sex and Gender Research Forum, Institute for Women’s Health, Drexel University College of Medicine, Host: Noreen Robertson, DMD
- April 2006      *“Breast Cancer in 3D: Understanding Matrix and Growth Factor Regulation of Epithelial Survival, Morphogenesis and Transformation”* Center of Integrated Bioinformatics, School of Biomedical Engineering, Drexel University, Host: Aydin Tozeran, Ph.D.
- March 2006     *“Breast Cancer in 3D: Understanding Matrix and Growth Factor Regulation of Epithelial Survival, Morphogenesis and Transformation.”* Department of Biochemistry and Molecular Biology, Drexel University College of Medicine, Host: Jane Clifford, Ph.D.
- Jan 2006        *“Breast Cancer in 3D: Understanding Matrix and Growth Factor Regulation of Epithelial Survival, Morphogenesis and Transformation.”* Department of Bioscience and Biotechnology, Drexel University, Host: Aleister Saunders, Ph.D.
- Nov 2004        *“Use of a 3D Breast Epithelial Cell Model in Monitoring Oncogene and Drug Activities.”* Tissue Models for Drug Discovery Conference, Boston, MA, Host: Cambridge Healthtech Institute

## 2. By competition or Peer-Review (oral presentations):

- March 2015      Ferrer, C.M., Lu, T., Sinclair, D. A., and **Reginato, M.J.** “O-GlcNAcylation regulates breast cancer cell invasion via the NAD<sup>+</sup>-dependent deacetylase SIRT1.” Biology of Sirtuins, Keystone Symposia, Santa Fe, NM

- Aug 2014 Ferrer, C.M., Lynch, T., Sodi, V., Vocadlo, and **Reginato, M.J.** “O-GlcNAcylation Regulates Global Cancer Metabolism in Cancer Cells via Regulation of HIF-1 $\alpha$ .” Mechanisms and Models of Cancer, Cold Spring Harbor Laboratory Meetings, Cold Spring Harbor NY
- Sept 2013 Karakashev, S.K., and **Reginato, M.J.** “Hypoxia induces Lapatinib resistance in ErbB2-positive breast cancer cells via regulation of DUSP2” Third AACR International Conference on Frontiers in Basic Cancer Research in National Harbor, Maryland
- Apr 2013 Ferrer, C.M., Lynch, T., Sodi, V., Vocadlo, and **Reginato, M.J.** “O-GlcNAcylation Regulates Cancer Metabolism and Stress Signaling via the HIF1 $\alpha$ /Glut1 Axis” Cancer Biology & Therapeutics, Cold Spring Harbor Laboratory Meetings, Cold Spring Harbor NY
- Aug 2011 **Reginato, M. J.**, Lynch, T., Ferrer, C., Jackson, R., Shahriari, K., and Vosseller, K. “Nutrient sensor O-GlcNAc Transferase regulates breast cancer tumorigenesis via targeting of the oncogenic transcription factor FoxM1”. Department of Defense, Breast Cancer Research Program Era of Hope Conference, Orlando FL
- Apr 2011 **Reginato, M. J.**, Lynch, T., Falcone, J., and Shahriari, K. “Nutrient sensor O-GlcNAc Transferase regulates cancer glycolysis”. The Biology of Cancer: Microenvironment, Metastasis & Therapeutics, Cold Spring Harbor Laboratory Meetings, Cold Spring Harbor NY