**CURRICULUM VITAE**

**DATE:** September, 2017

**NAME:** Melissa Brinkman Rogers

**PRESENT TITLE:** Associate Professor

**HOME ADDRESS:** 1415 Boynton Ave.

Westfield, NJ 07090

**OFFICE ADDRESS:** Rutgers New Jersey Medical School

Microbiology, Biochemistry & Molecular Genetics (CC F1216)

205 South Orange Ave.

Newark, NJ 07103-2714

**TELEPHONE NUMBER/E-MAIL ADDRESS:**

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Home: (908) 233-2545

Email: [rogersmb@njms.rutgers.edu](mailto:rogersmb@njms.rutgers.edu)

**CITIZENSHIP:** USA

**EDUCATION:**

1. Undergraduate

Rensselaer Polytechnic Institute,

Troy, NY

B.S.Biology

1979

1. Graduate

Brandeis University

Waltham, MA

Ph.D.Biology

1985

Advisor: Dr. K.M. Karrer,

Thesis: A Molecular and Biochemical Analysis of

Conjugation and Adolescence in *Tetrahymena thermophila*

**POSTDOCTORAL TRAINING:**

A. Internship and Residencies: N/A

1. Research Fellowships

Pharmaceutical Manufacturers’ Association Foundation Pharmacology-Morphology Fellowship

1989-1991

Aid for Cancer Research Postdoctoral Fellowship (declined)

1989-1991

Massachusetts American Cancer Society Postdoctoral Fellowship

“Mouse Teratocarcinomas and Embryos: Genes in Common”

1986-1988

1. Postdoctoral Appointments:

Dana-Farber Cancer Institute and Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School

1985-1991 Advisor: Dr. L. J. Gudas,

Dept. of Genetics, Harvard Medical School, Boston, MA

Hughes Scholar

1992 Advisor: Dr. J. G. Seidman

**MILITARY:** N/A

**ACADEMIC APPOINTMENTS:**

Biology Department and Institute for Biomolecular Sciences

– primary appointments

Department of Pharmacology and Therapeutics - joint appointment

University of South Florida, Tampa, FL

Assistant Professor

1993 – 1999

Biology Department and Institute for Biomolecular Sciences

– primary appointments

Department of Pharmacology and Therapeutics - joint appointment

University of South Florida, Tampa, FL

Associate Professor with Tenure

1999 - 2001

Department of Biochemistry & Molecular Biology

UMDNJ-New Jersey Medical School, Newark, NJ

Associate Professor (with tenure from 2013)

2001- 2014

Department of Microbiology, Biochemistry & Molecular Genetics

Rutgers-New Jersey Medical School, Newark, NJ

Associate Professor with Tenure

2014 - Present

NJMS – UH Cancer Center Community

Member

2007 – Present

Cardiovascular Research Institute

Rutgers-New Jersey Medical School, Newark, NJ

Member

2015 – Present

Rutgers Cancer Institute of New Jersey

Member

2016 – Present

**HOSPITAL APPOINTMENTS:** N/A

**PRIVATE PRACTICE:** N/A

**OTHER PROFESSIONAL POSITION AND MAJOR VISITING APPOINTMENTS –** NONE

**LICENSURE:** N/A

**DRUG LICENSURE:** N/A

**CERTIFICATION:** N/A

**MEMBERSHIPS, OFFICES AND COMMITTEE ASSIGNMENT IN PROFESSIONAL SOCIETIES:**

Association of Biochemistry Course Directors (ABCD)

Member

2013 – 2016

International Association of Medical Science Educators (IAMSE)

Member

2012 – Present

American Heart Association

Member

2011 – Present

Association for Computing Machinery (ACM) First International Workshop on

Text Mining in Bioinformatics

Program Committee

(TMBIO 2006)

Society for Developmental Biology

Member

1993 – Present

World Federation of Chinese Medicine Societies (WFCMS)

Member

2017 – Present

**HONORS AND AWARDS:**

NJMS Faculty Organizations Basic Science Teaching Award

2016

Nominated for a Foundation of UMDNJ Excellence in Teaching Award

2012

Research highlighted in the UMDNJ *Pulse* publication

2009

Faculty Quality Research Award for Providing Exemplary Research

Experiences

McNair Scholars Program, University of South Florida, Tampa, FL

2000

Honorary Member of the Golden Key National Honor Society –

Student nominated

1998

Outstanding Research Award,

H. Lee Moffitt Cancer Center & Research Institute, Tampa, FL

1996

**BOARD OF DIRECTORS/TRUSTEES POSITION:** N/A

**SERVICE ON NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, COMMITTEES:**

Chair

American Heart Association, Basic Cell Genetics & Epigenetic Committee

2017 -

*ad hoc* Member

American Heart Association, Allen Distinguished Investigator Award

2017

Chair

American Heart Association, Basic Cell—Genetics & Epigenetics (GE) 3

Committee

2012 - 2015 Fall and Spring cycles

Co-Chair

American Heart Association, Basic Cell—Genetics & Epigenetics

(GE) 1 Committee

2011

Member, American Heart Association, Basic Cell—Genetics & Epigenetics

(GE) 1 Committee

2010, 2011

Member

American Heart Association Region 1 Basic Cell 2 Review Panel

2008

Member

American Heart Association National, Basic Cell & Molecular Biol. 3

2008

Member

American Heart Association 2006-7 NEA5 (Gene Expression: Cardiovascular

Development) Review Panel

2006, 2007

Ad hoc member

Cell Development and Function-5 Study Section, NIH

2002

Member

American Cancer Society Institutional Research Grant Review Committee

1995 - 2000

*ad hoc* external reviewer

National Science Foundation external reviewer

NSF Proposal # 1121760, Feb. 2011

NSF Proposal # 1052219, Oct. 2010

Alzheimer's Association

Philip Morris External Research Program

**SERVICE ON MAJOR COMMITTEE:**

1. International: N/A
2. National: N/A

1. Medical School

UMDNJ - New Jersey Medical School

NJMS Faculty Organization Vice President for Basic Research (elected)

2015 – 2016

NJMS Faculty Investigator’s Committee (Chair)

2015 - 2016

NJMS Faculty Investigator’s Committee (Member)

2016 - present

Foundations group (Member)

within the Organ Systems-based Integrated Curriculum Workgroup within the NJMS Curriculum Renewal Taskforce

2013 – 2015

Endocrine Group (CoChair)

within the Organ Systems-based Integrated Curriculum Workgroup within the NJMS Curriculum Renewal Taskforce

2013 – 2014

Goal 1 Taskforce (Member)

2013 – 2015

PreClerkship Committee (PCC) (Member)

2013 – 2015

Reviewer for the 2013 FUMDNJ Bridge Grants Program

2013

Committee on Faculty Affairs (Vice Chair)

2012 – 2014

Committee on Faculty Affairs (Member)

2010 – 2012

Reviewer for the 2009 FUMDNJ Bridge Grants Program

2009

Institutional Animal Care & Use Committee (IACUC)

2007 – 2008

Biomedical Engineering Academic Progress Committee

2005 – 2006

Faculty Council (elected Member at large)

2004 - 2006

1. Hospital: N/A
2. Department:

Chairperson - Biochemistry Medical Education Self Study Report for Department Review

2013

Chairperson - Biochemistry Department Graduate Admissions Committee

2010

Biochemistry Department External Seminar Series Organizer

2009 – 2010

Biochemistry Departmental Committee on Graduate Program

2008

Biochemistry Graduate Curriculum Review Committee

2007

Committee on Additional Training in Biochemistry for Biochemistry Students

2007

Molecular Genetic Medicine Steering Group

2006

Biochemistry Graduate Education Self Study Group

2003

1. Editorial Boards: N/A
2. *Ad hoc* Reviewer

Journals:

Biochemistry, Biochimie, Cancer Cell, Comparative Biochemistry and Physiology, Endocrinology, FASEB Journal, FEBS Letters, Human Genetics, Human Molecular Genetics, International Journal of Developmental Biology, In Vitro Cellular & Developmental Biology, Journal of Biological Chemistry, Journal of Bone and Mineral Research, Journal of Cellular Biochemistry, Journal of Neurochemistry, Oncogene, Stem Cells and Development

Individual reviews recorded since Oct. 2009

International Journal of Molecular Sciences, ijms-339586

July 2018

Journal of Molecular and Cellular Cardiology, JMCC11369

January 2018

PLOS ONE, PONE-D-17-26771

September 2017

BMC Medical Genomics, MGNM-D-17-00032R1

July 2017

Scientific Reports (Nature journal), SREP-17-08209

March 2017

Diabetes Research Center (DRC) McAbee Endowed Postdoctoral Fellowship, University of Washington,

April 2015

MDAdvisor, A Journal for the New Jersey Medical Community, D-14-00003

June 2014

PLOS ONE, PONE-D-13-13379

Apr. 2013

Molecular and Cellular Biochemistry, mcbi-649

Jan. 2013

PLOS ONE, PONE-D-12-39216

Jan. 2013

Developmental Biology, DBIO-12-448R1 (revised)

Dec. 2012

Developmental Biology, DBIO-12-448

Sept. 2012

AJP-Heart and Circulatory Physiology, H-00263-2012 (revised)

Jul. 2012

AJP-Heart and Circulatory Physiology, H-00263-2012

Apr. 2012

ACS Medicinal Chemistry Letters, ml-2011-00279s

Dec. 2011

Human Genetics, HumGen-11-0039

Feb. 2011

Journal of Medical Genetics; JMG/2010/084814 (revised)

Jan. 2011

Growth Factors, GGRF-2010-0056

Oct. 2010

Journal of Medical Genetics, JMG/2010/084814

Oct. 2010

Human Genetics, HMG-2010-W-00661

Jul. 2010

FASEB Journal, /2010/157768

Feb. 2010

Stem Cells and Development, SCD-2009-0357

Oct. 2009

**SERVICE ON GRADUATE SCHOOL COMMITTEES:**

**UMDNJ – Graduate School of Biomedical Sciences**

Judge - ORSP-SSRP Poster Symposium

2017

Judge - Cancer Research Summer Program Closing Symposium

2015

Judge - ORSP-SSRP Poster Symposium

2015

Judge – 21st Annual GSA Symposium

2014

Judge - Cancer Research Summer Program Closing Symposium

2014

Judge - ORSP-SSRP Poster Symposium

2014

Judge - 20th annual GSA Symposium

2014

Judge - 19th annual GSA Symposium

2013

Chairperson – Molecular Biology, Genetics, and Cancer (MBGC) Track

Graduate Admissions Committee

2012

Judge - ORSP-SSRP Poster Symposium

2012

Co-Chairperson – Molecular Biology, Genetics, and Cancer (MBGC) Track

Graduate Admissions Committee

2011

Member - GSBS Recruitment Committee for Multidisciplinary PhD Program in Biomedical Sciences

2011, 2012

Judge - 18th annual GSA Symposium

2011

Judge - Cancer Research Summer Program Closing Symposium

2011

Member – Molecular Biology, Genetics, and Cancer (MBGC) Track Oversight Committee

2011 – Present

Judge - 17th annual GSA Symposium

2010

Judge - Cancer Research Summer Program Closing Symposium

2010

**SERVICE ON UNIVERSITY OF SOUTH FLORIDA COMMITTEES:**

University

University of South Florida Institutional Biosafety Committee

1999

Provost’s Task Force on Allied Health/Health and Basic Sciences

1998 – 1999

Research and Creative Scholarship Grant Review Committee

1995 – 1996

University of South Florida Grievance Committee

1993 – 1996

Suncoast Biomolecular Science Conference Planning Committee and Session

Leader

1993 – 1994

Department

State University System Program Evaluation Committee

2000-01

Developmental Biologist Faculty Search Committee

2000-01

Faculty Advisory Committee, elected member, formally evaluated Biology

Department Faculty. Weight of committee evaluations equaled those of the

Department Chair

1999-02

Cell Function Faculty Search Committee

1999-00

Honors Committee

1997-00

Graduate Curriculum Committee

1996-98

Genetics Faculty Search Committee

1997

Cell Biology Faculty Search Committee (2 positions)

1996

Interdisciplinary Ph.D. Program in Cellular and Molecular Biology Admissions

and Recruitment Committee

1995-01

Faculty Planning Committee (elected member)

1994-97

Biology Department Graduate Admissions Committee

1994-96

Microbiology Faculty Search Committee

1994

**SERVICE ON HOSPITAL COMMITTEES:** N/A

**SERVICE TO THE COMMUNITY:** N/A

**SPONSORSHIP OF CANDIDATES FOR POSTGRADUATE DEGREE:** see below

**SPONSORSHIP OF POSTDOCTORAL FELLOWS:** see below

**TEACHING EXPERIENCE:**

1. Lectures or Course Directorships

**University of South Florida**

**Course director:**

Advanced Cell Biology (BSC6107, ~25 graduates)

Developed and gave all lectures (3 h/wk) and exams in course, Fall 1994, 1996

Responsible for one third of curriculum, Fall 1997, 1998

Responsible for lectures on “Cell Cycle and Apoptosis”, Spring 2001

Advances in Cell and Molecular Biology (BSC6920) Fall 1993, 1994, 1996, 2000;

Spring 1994, 1998, 1999; Summer 1996

Cell Biology (PCB3023, 140-200 undergraduates)

Developed and gave all lectures (3 h/wk) and exams in course, Spring 1994, Fall 1997, 1998, 2000

Responsible for one half of course Fall 1995, Spring 1996

Cell Biology Labs (PCB3023L, 140-200 students) Spring 1994, 1996; Fall 1996

Revised lab manual

Supervised 4 teaching assistants

Cell Growth, Death, and Differentiation (BSC6932, 13 graduates), Spring 1996

Recruited nationally renowned scientists for the associated 1996 Institute for Biomolecular Science Spring Seminar series

Prepared students for seminars

Organized extensive interactions between speakers and students

Developmental Biology (PCB4253/PCB5256, 19-30 upper level undergraduates and graduates) Spring 1993, 1995, 1997, 1998, 1999, 2001

Developed and gave all lectures (3 h/wk) and exams in course

Compiled workbook with scientific research publications and student exercises in interpreting and designing scientific experiments in developmental biology

Practical Applications in Developmental Biology (BSC5931, ~4 students) Spring 1997, 1998, 1999; Fall 1997, 1998, 1999, 2000

Tutorial in Development (BSC6932, 1 graduate) Spring 1998

**Lectures:**

Biology Honors Seminar (BSC4931)

“Tissue Culture Techniques”

Methods in Pharmacology (GMS6503)

“Tissue Culture Techniques”

Spring 1998

Cellular and Molecular Pharmacology (GMS6501)

“Steroid Receptor Superfamily”

Fall 1995, 1997

**Rutgers School of Graduate Studies (UMDNJ - Graduate School of Biomedical Sciences until 2014, Rutgers GSBS until 2017)**

**Course director:**

Introduction to Biomedical Sciences Molecular Function Module I

(GSND5200Q)

Modified course by recruiting new lecturers and guiding the design of new lectures to increase topic integration and lecture quality within the new Multidisciplinary Track curriculum

Mentors lecturers by previewing lecture slides and providing constructive criticism on presentations (Neerja Kaushik-Basu, Hong Li, Vanessa Routh, Caroline Suzuki, Ray Birge)

Prepares and administers comprehensive exam

Reviews course direction and effectiveness each year, including a major course wide review in 2016 – 2017.

2009 – 2012

2016 - present

Molecular Cell Biology Core Course Module I: Molecular Structure & Metabolism (GSND5200)

Developed new outline emphasizing topic integration

Mentored lecturers (Hong Li, Shuishu Wang, Matt Neiditch)

2007, 2008

Molecular Biology of the News (BIOC5240)

Modified course by recruiting new lecturers and developing a new student evaluation system

Mentored lecturers by providing constructive criticism on presentations (Hong Li, Shuishu Wang, Betsy Barnes, Ray Birge)

2007, 2009, 2011

Molecular & Genetic Medicine(GSND 5201Q)

Introductory Lecture (new in 2013)

“Sickle Cell Disease – Cases to Exemplify Genetics, Protein Biology, and Cell Biology” (new Podcast 2013)

“Mitosis & Meiosis” (new Podcast 2013)

“Signaling – Peptide Hormones” (new Podcast 2014)

“Cell Metabolism Basics” (new Podcast 2014)

2005 – 2014

**Unit Leader:**

Genes Molecules and Medicine (GSND 5205Q)

Unit 6 leader - Endocrinology and Cancer

2010 - 2014

**Co-course director:**

Molecular Biology of the News (BIOC5240)

2005

Critical Readings of the Literature (BIOC5290Q)

2016

Fundamentals of Biomedical Sciences A: Biochemistry and Molecular Biology (GSND N500A)

2017

**Lectures:**

Genes, Molecules and Medicine (GSND 5205Q)

“Mitosis and Meiosis”

“Signaling – Peptide Hormones I and II”

“Mechanism of Action of Steroid Hormones”

“Calcium Metabolism”

“Techniques in Molecular Biology” 2012

2010 – 2014

Foundations in Biochemistry and Molecular Biology (BIOC5007)

“Nuclear Hormone Receptors: from Glucocorticoids to Orphans”

2006, 2008, 2010, 2012, 2014, 2016

Seminar in Biomedical Sciences (MSBS-591Q)

“BMP2 Gene Regulation”

“How to keep BMP2 off when it should be off”

“Turning BMP2 On and Off”

"Controlling the level of BMP2"

2003, 2009, 2010, 2011, 2012, 2014, 2015, 2016, 2017

Biochemistry of Nucleic Acids (BIOC5070)

“Eukaryotic Activators and Repressors”

“Transcriptional Factors during Embryogenesis & Development” *new in 2011*

2002 – 2014, 2016

Molecular Cell Biology Core Course (GSND5200)

“Cellular & Biochemical Foundations”

2007, 2008

Molecular Biology of the News (BIOC5240)

“Stem Cells”

2003, 2005, 2007, 2009, 2011, 2013

Evening Core I (GSND N551Q)

“Cellular & Biochemical Foundations”

2007, 2008

Developmental Biology (CBMM5020)

“Cell Cycle and Apoptosis”

“Teratogens”

2003 – 2009

Introduction to Biomedical Sciences (GSND5200Q)

“Biochemical Foundations”

“Tying it Together, Regulation of Metabolism” *new in 2017*

2009 – Present

Current Topics in Biochemistry (BIOC508A)

“BMP2 Gene Regulation”

2002

Cancer Biology (MBGC 5020Q)

“p53 and Apoptosis”

2012 - present

Cancer Biology (GSND5225Q)

“p53 and Apoptosis”

2010, 2011

Molecular Methods in Biochemistry (BIOC5170)

“Tissue Culture”

2008 – 2010

Analytical Methods in Biochemistry (BIOC5170)

“Tissue Culture”

2002 – 2007

Responsible Conduct of Research (GSND 5001Q)

Small Group Leader (1 hour)

2018

**Rutgers (UMDNJ until 2014) - NJ Medical School**

**Course Director**

Molecular & Genetic Medicine (EDUC6002K)

2013 – 2014

Compressed course from 9 weeks to 7 weeks and 3 days in 2013

Increased use of active learning techniques such as problems sessions and use of the Automated Response System (clickers)

Prepared 4 new podcasts

Added Cell Biology material via a podcast prepared by Richard Feinberg

Developed new Team Based Learning Exercises

Organized new Problems Sessions on Biochemistry

Prepared pretest to be administered online with the assistance of the CALM tutors and the Office of Student Affairs

Reviewed lectures (60-66 total), TBLs (6), and problems sessions (4)

Edited syllabus introduction and prepared schedules

**Course Coordinator – Biochemistry & Molecular Biology**

Molecular & Genetic Medicine (EDUC6002K)

2012 – 2014

Reviewed lectures

Prepared and administered exams

**Unit Leader:**

Molecular & Genetic Medicine Unit 1 – Introduction to Molecular & Genetic Medicine (EDUC6002K)

Reviewed lectures in Unit 1 (9 total) and suggested modifications to increase topic integration and lecture quality

2013 – 2014

Molecular & Genetic Medicine Unit 6 – Endocrinology and Cancer (EDUC6002K)

Developed new case-based learning exercise (CBL6) designed to

review basic concepts in frame shift mutations, receptor function,

oncogenes and tumor suppressors, PCR, retroviral gene integration and

to discuss the risks and benefits of gene therapy.

Reviewed lectures in Unit 6 (8 total) and suggested modifications to increase topic integration and lecture quality

2009 – 2013

**Lectures:**

Molecular & Genetic Medicine(EDUC6002K)

Introductory Lecture (new in 2013)

“Sickle Cell Disease – Cases to Exemplify Genetics, Protein Biology, and Cell Biology” (new Podcast 2013)

“Mitosis & Meiosis” (new Podcast 2013)

“Mitosis & Meiosis” (lectures 2005 - 2012)

“Signaling – Peptide Hormones”

2005 –2013

“Signaling – Peptide Hormones I”

2014

“Signaling – Peptide Hormones II”

2014

“Cell Metabolism Basics” (new Podcast 2014)

“Peptide Hormones Basics” (new Podcast 2014)

Team Based Learning Exercise 1 “Key Concepts in Biochemistry, Molecular, & Cell Biology” (new in 2013)

Team Based Learning Exercise 6 “SCID” (new in 2014)

Small group leader (2 to 6 two-hour sessions/year):

Molecular & Genetic Medicine recitations (EDUC6002K)

2004 – 2010

Molecules Cells and Systems(Foundations)

“Signaling – Peptide Hormones I”

2015 - present

“Signaling – Peptide Hormones II”

2015 - present

“Developmental Genetics” (new in 2015)

2015 – present

Reviewed new Small Interactive Group (SIG) activities

**Rutgers School of Dental Medicine (UMDNJ - NJ Dental School until 2014)**

**Lectures:**

Dental Biochemistry (BIOC7102)

“Chromosomes”

“Bones”

2006 – 2010

“Mechanism of action of peptide hormones (insulin/glucagon)” (new in 2017)

“Integration of Metabolism” (new in 2017)

2017 -

Small group leader (4 two-hour sessions):

Dental Biochemistry PBL sessions

2004 – 2008, 2015

1. Research Training

Post-Doctoral Fellows:

Ying Tang, Ph.D.

2018 -

Jianbo Guo, M.D. (Joint with Dr. Azzam)

General Surgery, The Fourth Affiliated Hospital of China Medical University, Shenyang, China

2016 – 2018

Lakshmi Gummadi, Ph.D.

2012 – 13

Adriano S. Martins, Ph.D.

Maimonides Medical Center, Brooklyn, NY

2009-10

Junwang Xu, Ph.D.,

2002-06

Assistant Professor, Department of Surgery, University of Colorado, Denver – Anschutz Medical Campus, Aurora, CO

Jaspreet Kochar, Ph.D.

2003-05

Donglin Liu, Ph.D.

2003-05

Scientist, Immunomedics, Inc., Morris Plains, NJ

Céline Nativelle-Serpentini, Ph.D.

2002-03

Pragnya Das, Ph.D.

2002-05

Scientist, Department of Pediatrics, Drexel University College of Medicine

Michele A. Glozak, Ph. D.

1995-02

Scientist, H. Lee Moffitt Cancer Institute, USF, Tampa, FL

Loreé Heller, Ph.D.,

1994-97

Associate Professor, Medical Diagnostic & Translational Sciences, Old Dominion University, Norfolk, VA

Pre Doctoral Students:

Ph. D Students:

**University of South Florida**

Kevin L. Abrams,

"Transcriptional Regulation of *Bmp2*",

AdWords and SEO Specialist, Thermo Fisher Scientific, ClickKinetics, Rockford, IL

1997-04

Todd Meyer, Ph.D. supervised jointly with Dr. John Francis (Walt

Disney Cancer Institute)

"Cellular Effects of Tissue Factor Binding Proteins

Walt Disney Cancer Institute, FL

1995-02

Yong Li, Ph.D.

"Characterization and trapping of novel RA-regulated genes"

Professor, Life Sciences, Xiamen University, Xiamen, Fujian, P.R.China

1995-99

**UMDNJ/Rutgers**

Shan Jiang, Ph.D.

“Bone Morphogenetic Protein 2 (Bmp2) Gene Regulation in Lung

Cells” American Society for Cell Biology (ASCB) Predoctoral Student

Travel Award recipient, 2006, Southeast Developmental Biology

Meeting Runner-Up Poster Presentation, 2007

Scientist, Gene Tools, LLC; Philomath, OR

2003-08

Tapan Shah

“Post-transcriptional Gene Regulation of Bone Morphogenetic Protein (BMP)-2 During Embryogenesis and Cardiovascular Calcification”

Advanced Cell Diagnostics (ACD - a Bio-Techne brand) Newark, CA

2014 – 2018

M.S. Students:

**University of South Florida**

Vivian Wong, M.S. in Microbiology

"The Effects of RA and BMP-4 on the *In Vitro* Differentiation of

Mouse Embryonic Stem (ES) Cells"

1995-98

Travis VanDyke, M.S. in Zoology, Co-Major Professor with Dr.

Samuel Edwards "Possible Regulation of *Limulus polyphemus* Lateral

Eye Protein Phosphatase Type 2A by PKA Phosphorylation of AB

Subunit"

1994-96

**UMDNJ/Rutgers**

Jocelyn Packer (non-thesis)

2018

Sydney Panella (non-thesis)

2018

Paula Phu (non-thesis)

2018

Patricia Palanca (non-thesis)

2018

Nadim Modi (non-thesis)

2018

Morgan Zahn (non-thesis)

2018

Irina Kleiman (non-thesis)

2017

Risha Patel (non-thesis)

2017

Nadia Shaikh, M.S. (thesis)

“Characterization of Three New Bone Morphogenetic Protein (BMP)-2 Alleles”

Student at St. George’s University School of Medicine 2017

2014 - 2017

Giany Salinas (non-thesis)

2016

Imani Williams (non-thesis)

2016

Risha Patel (non-thesis)

2016

Irina Kleiman (non-thesis)

2016

Ashley Franko (non-thesis)

2015 - 16

Daniel Tabaras (non-thesis)

2015

Gabriella Slater (non-thesis)

2015

Tyler Sharp (non-thesis)

2015

Justin Hulin (non-thesis)

2015

Joseph Doran (non-thesis)

2015

Precious Martin (non-thesis)

2015

Chinwendu Emelumba (non-thesis)

2014

Danni Fu (non-thesis)

2014

Pedro EspinoGrosso (non-thesis)

2013

Anastasios V. Fotinos, M.S. (thesis)

“Regulation of Bone Morphogenetic Protein 2 (Bmp2) Signaling and Post-Transcriptional Elements in Lung Cells”

student at Rowan University School of Osteopathic Medicine 2014

2012 – 2013

Naila Saidu-Kamara (non-thesis)

2012

Meegan Napoleon (non-thesis)

2011

Channing Hui (non-thesis)

2011

Jacek Waszkiewicz (non-thesis)

2010

Nathalie Duroseau (non-thesis)

2010

Yijun Liu, M.S. (thesis)

“Bone Morphogenetic Protein 2 (Bmp2) Gene Regulation”

Account Manager, Qiagen, Washington, DC

2009-10

**University of South Florida**

Honors Undergraduates:

Gialinh T. Le (USA Today All-USA College Academic Team finalist,

Biology and University Honors), now Lynn Thi Le, MD, Florida Hospital, Orlando, FL

Alekh Hira (Institute for Biomolecular Science Undergraduate

Research Fellow, Biology honors)

Rosario Martinez-Angel (Biology and University Honors)

Elisa Schuetz (Biology and University Honors)

Christine Roland (Institute for Biomolecular Science Undergraduate

Research Fellow, University Honors)

Greg Twarowski

American Cancer Society (ACS) R.G. Thompson Summer Research Fellows (undergrad):

Cynthia Higgins-Owsinski

Kerri Aaron

Simon Wloch

Ronald E. McNair Postbaccalaureate Achievement Program (an undergraduate program that aims to increase the attainment of Ph.D. degrees by students from underrepresented segments of society):

Sherma St. Fort

Katrina Duckworth

Brandon Rodriguez

Non-Honors Program University of South Florida Undergraduates:

Terri Slifko,

Denise Basch,

Michael Randall,

Susan Smith,

Juan P. Richiusa, MD, Family Health Centers of Southwest Florida Inc., Fort Myers, FL

Jason Matthews,

Kumar Jairamdas,

Yasmin Issa,

Anita Arias

**UMDNJ/Rutgers**

Undergraduates and graduate volunteers from other schools:

Lindsey Hernandez (RU New Brunswick), joint with Dr. Patricia Buckendahl (received *Rutgers Aresty Undergraduate Research Fellowship* and Society of Developmental Biology *Choose Development! Summer Fellowship*, $4000)

2016 – 2019

Lianhua Jin (MS student, NJ Institute of Technology)

2017

Weijun Huang (Doctoral student, Beijing University of Chinese Medicine)

2017

Ludmila Lisii (Rutgers New Brunswick)

2015

Alicja Zalewski (TCNJ BS/MD program, entered NJMS in 2012)

2010

Abdul Rahman (NJ Institute of Technology)

2007-08

Swetha Yeldandi (University of Maryland Honors Undergraduate,

entered NJMS Fall 2010)

2006

NHLBI Summer Minority Program

Ismanie Guillaume (Rutgers University)

2008

Cancer-Related Student Research Program

Anirudh Goyal, NJMS

2016

Annica Tehim, NJMS

2015

Jordana Goldman, NJMS

2014

Manpreet Parmar, NJMS (1st Place in Poster Competition)

2013

Steven Lisica, (TCNJ BS/MD program, entered NJMS in 2011), 2011; 2012

Dena Abelshahed, NJMS

2010

Shanchita Ghosh, NJMS (2nd Place in Poster Competition)

2009

Jason Teichman, NJMS

2008

Guy Jones, NJMS (3rd Place in Poster Competition)

2006

NJMS Summer Student Research Program

Mark Danila, RU New Brunswick undergrad, joint with Dr. Patricia Buckendahl (Aresty Undergraduate Research Fellowship recipient ($1,000)

2017 – 2018 (2017 summer plus academic year)

Claudia Siniakowicz, TCNJ/NJMS BS/MD program

2018

Amy Song, TCNJ/NJMS BS/MD program

2017

Theresa Krawiec, NJMS,

2016

Vanya Jain (RU Newark undergrad)

2016

Lauren Cué, NJMS,

2015

Annica Tehim, TCNJ BS/MD program, entered NJMS in 2014,

2014

David Kam, NJMS (2nd Place in Poster Competition)

2013

Sandra Chesoni, Ph.D, NJMS

2012

Hao Sun, NJMS

2011

Zain Boghani (TCNJ)

2007

Rotating Graduate Students (3 to 6 month projects):

Ian Campbell

2017

Mayra Tuiche

2017

Jaemin Byun

2013

Ke Geng

2012

Narayani Nagarajan (2014 S.-C. Joseph Fu Scholarship Award)

2010

Yi Jun Liu

2009

Manpreet Kaur

2008

Khanh Quynh Nguyen

2007

Sarah Darmon

2006

Jiaying Huang

2003

Wei Li

2002

Qualifying Examination Committee Member for:

ShanShan Li

2018

Sonia DaSilva-Arnold, Molecular Biology, Genetics, & Cancer Track

2016

Daniel Vollenweider, Biochemistry and Molecular Biology

2011

Ruifeng Zheng, Pharmacology and Physiology

2010

Wenting Luo, Biochemistry and Molecular Biology

2010

Wen-I Tsou, Biochemistry and Molecular Biology

2009

Sneha Joshi, Biochemistry and Molecular Biology

2007

Lisa Hague, Biochemistry and Molecular Biology

2005

Eduardo Areche, Biochemistry and Molecular Biology

2004

Qi Wang, Ph.D. Biochemistry and Molecular Biology

2003

Qi Shen, Ph.D. Biochemistry and Molecular Biology

2002

Nitu Tibrewal, Ph.D. Biochemistry and Molecular Biology

2001

Doctoral Thesis Committee Member for:

Sonia DaSilva-Arnold, Molecular Biology, Genetics, & Cancer Track

2016 -

Qi Wang, Ph.D. Biochemistry and Molecular Biology

2003-07

Qi Shen, Ph.D. Biochemistry and Molecular Biology

2002-06

Doctoral Thesis Defense Committee Member for:

Corey Chang, NJMS MD/PhD program

2014

Kevin Hong Nguyen, Interdisciplinary Biomedical Sciences Program

2014

Lisa Hague, Ph.D. Biochemistry and Molecular Biology

2010

Gregor Balaburski, Ph.D. Orthopaedics

2005

Matt Hosler, MD, Ph.D. Biochemistry and Molecular Biology

2005

Mateusz Opyrchal, Ph.D. Microbiology and Molecular Genetics

2005

Naomi Bergman, Ph.D. Microbiology and Molecular Genetics

2004

1. Other instructional activities at UMDNJ

Compiled Biochemistry Department Ethics Guidelines for students.

Prepared written summaries of the characteristics of good multiple

choice and NBME style questions for Molecular & Genetic Medicine

faculty.

Participated in National Board of Medical Examiners (NBME) Item Writing Workshop: Constructing Better Quality Multiple-Choice Questions (MCQs) for the Basic and Clinical Sciences

Participated in AAMC Careers in Medicine Advising Workshop:

Helping Students Find Their Fit

2011

**CLINICAL RESPONSIBILITIES:** N/A

**GRANTS SUPPORT:**

1. Principal Investigator:

National Heart, Lung, and Blood Institute, “Gene Regulatory Mechanisms that Repress BMP2 in Pathological Calcification”, 1R01HL134947, $750,000 total, ($441,882 indirect costs - IDC)

08/15/17 - 07/31/20

National Institute on Aging, “Regulation of BMP2 in CKD Induced Calcification in the Klotho Aging Model”, 1R56AG050762-01A1, $250,000 total, ($147,500 indirect costs - IDC)

09/15/16 - 08/31/18

Dean’s Biomedical Research Support Program, Core Facilities

Matching Funds, “MicroRNA Profiles in Calcified Aorta”, $3,000 (no indirect costs – IDC)

07/01/2016 - 6/30/2017

National Heart, Lung, and Blood Institute, “BMP2 Gene Regulation in

Calcific Aortic Valve Disease”, 1R01HL114751, $1,000,000 total,

Multiple Principal Investigator with Douglas Mortlock, Ph.D,

Vanderbilt University, $500,000 to UMDNJ – NJMS ($280,000

indirect costs - IDC)

08/23/2012 – 06/30/2017

Foundation of UMDNJ and Dean’s Biomedical Research Support

Program, “BMP2 Repression and Embryogenesis and Adult

Physiology”, #PC53-12, $25,000 (no indirect costs – IDC)

04/01/2012-03/30/2014

Dean’s Biomedical Research Support Program, Core Facilities

Matching Funds, “A Modified Allele for Conditionally Inducing

BMP2”, $3,000 (no indirect costs – IDC)

10/12/2011-6/30/2013

American Heart Association, Founder’s Affiliate, “Natural Repressors

of BMP2 Synthesis”, #09GRNT2220251, $180,000 ($18,000 IDC)

7/1/2009-6/30/2012

NJ State Commission on Cancer Research, “Mycoplasma and BMP2 in Lung Cell Transformation”, #09-1132-CCR-EO, $120,000 ($12,000 IDC)

7/1/2008-6/30/2010

Council of Research Deans (CoRD), “Research Career Development

Travel Award” $1,500 (no IDC)

2008

Foundation of UMDNJ, “BMP2 RNA Binding Proteins”, $50,000 (no IDC)

11/1/2006-10/31/2007

American Heart Association, Heritage Affiliate, “Retinoids and Bmp2

Expression in Embryos”, #0655881T, $180,000 ($18,000 IDC)

7/1/2006-6/30/2009

Foundation of UMDNJ, “Genetic Polymorphisms Influencing Bone

Density in Mice” $50,000 (no IDC)

7/1/2005-6/30/2006

Foundation of UMDNJ, “Bone Morphogenetic Protein 2 RNA

processing”, $50,000 (no IDC)

7/1/2004-6/30/2005

March of Dimes, “Trapping Murine Retinoic Acid Response Elements

(RAREs) Directly in Yeast”, #1-FY00-381, $167,770 ($16,777 IDC)

7/1/2000-6/30/2004

National Institute of Child Health and Human Development, "Retinoic

Acid-Regulated Genes and Embryos", R01 #HD31117, $827,961($322,905 IDC)

2/1/2000-1/31/2006

American Heart Association, Florida Affiliate, Inc., "Induction of

Embryonic Apoptosis by Retinoids and Bmp2 or 4", $90,000

7/1/1997-6/30/1999

National Institute of Child Health and Human Development Research

Supplements for Underrepresented Minorities for undergraduates Juan

P. Richiusa and Gialinh T. Le, $13,850

1995-1998

University of South Florida Presidential Young Faculty Award

“Apoptosis and Retinoid-regulated Differentiation”, *Two awarded out*

*of 38 proposals,* $10,000

1995

National Institute of Child Health and Human Development, "Retinoic

Acid-Regulated Genes and Embryos", R29 #HD31117, $350,000

1994-2000

University of South Florida Research and Creative Scholarship Grant,

"Inactivation of the BMP-2 and -4 genes in Embryonic Stem Cells”,

$7,500

1993-1994

American Cancer Society, FL Div. Starter Grant, "Retinoic Acid-

Regulated Genes and Differentiation", $10,000

1993-1994

Leukemia Research Foundation, Inc. Research Grant, "Retinoic Acid-

Regulated Genes and Differentiation", $35,000

1993-1994

1. Co-Investigator

Council of Research Deans (CoRD) UMDNJ Team Science Initiative

Grant with John Langenfeld, MD, UMDNJ – RWJMS, “The Role of

Mycoplasma-induced Tumorigenesis”, $10,000 (no IDC)

2008-2009

**as Mentor:**

NJ State Commission on Cancer Research "Alternate Polyadenylation

of BMP2 mRNA in Cancer Cells", Postdoctoral Fellowship, Donglin

Liu, transferred to Aaron Shatkin’s lab due to visa issues because grant

notice came too late, $69,000

2005-2007

American Heart Association, Florida Affiliate, Inc., “Retinoic Acid

Altered Expression of Bone Morphogenetic Protein 2”, Predoctoral

Fellowship, Kevin Abrams, $33,500

2000-2002

Tharpe Scholarship, "Transcriptional Regulation of *Bmp2*", Kevin

Abrams, $4,000

2000

American Heart Association, Florida Affiliate, Inc., "Induction of

Apoptosis in Pluripotent Embryonal Cells", Postdoctoral Fellow,

Michele A. Glozak, Ph.D., $73,500

1997-1999

American Heart Association, Florida Affiliate, Inc., "Retinoic Acid

Regulation of the BMP2 Gene", Postdoctoral Fellow, Loree C. Heller,

Ph.D., $69,000

1995-1997

**PUBLICATIONS:**

1. REFEREED ORIGINAL ARTICLES IN JOURNALS
2. Shah TA and **Rogers MB**. Unanswered Questions Regarding Sex and BMP/TGF-β Signaling. *Journal of Developmental Biology.* 6, 14; doi:10.3390/jdb6020014 (2018)
3. Shah TA, Zhu Y, Shaikh NN, Harris MA, Harris SE, **Rogers MB**. Characterization of New Bone Morphogenetic Protein (Bmp)-2 Regulatory Alleles *Genesis*. Jul;55(7). doi: 10.1002/dvg.23035. (2017)
4. Fotinos, A, Fritz, DT, Lisica, S, Liu, Y, **Rogers, M. B.** Competing Repressive Factors Control Bone Morphogenetic Protein 2 (BMP2) in Mesenchymal Cells *Journal of Cellular Biochemistry,* 117:439–447(2016)
5. **Rogers, M. B.**, TA Shah, NN Shaikh. Turning Bone Morphogenetic Protein 2 (BMP2) On and Off in Mesenchymal Cells. *Journal of Cellular Biochemistry* 116(10):2127-38 (2015)
6. Yutzey, KE, Demer, LL, Body, SC, Huggins, GS , Towler, DA, Giachelli, CM, Hofmann-Bowman, MA, Mortlock, DP, **Rogers, MB**, Sadeghi, MM, Aikawa, E. Calcific aortic valve disease: A consensus summary from Alliance of Investigators on Calcific Aortic Valve Disease, *Arteriosclerosis, Thrombosis and Vascular Biology*, 34(11):2387-93 (2014)
7. Fotinos, A, Nagarajan, N, Adriano S. Martins, AS, Fritz, DT, Garsetti, D, Lee, AT, Hong, CC, and **Rogers, MB**, Bone Morphogenetic Protein-focused Strategies to Induce Cytotoxicity in Lung Cancer Cells, *Anticancer Research*, 34 (5): 2095-2104 (2014)
8. Kruithof, BPT, Xu J, Fritz, DT, CabralCS, Gaussin, V, and **Rogers, M. B.** An In Vivo Map of Bone Morphogenetic Protein 2 Post-transcriptional Repression in the Heart, genesis*, The Journal of Genetics and Development* 49:841–850*.* (2011)

*One figure chosen for cover art.*

1. Kruithof, BPT, Fritz, DT, Liu, Y, Garsetti, DE, Frank, DB, Pregizer, SK, Gaussin, V, Mortlock, DP, and **Rogers, M. B.** An Autonomous BMP2 Regulatory Element in Mesenchymal Cells, *Journal of Cellular Biochemistry* 112: 666 - 674. (2011) PMID: 21136487
2. Jiang, S, Chandler, RL, Fritz, DT, Mortlock, DP, **Rogers, MB** Repressive BMP2 Gene Regulatory Elements Near the BMP2 promoter*, Biochemical and Biophysical Research Communications* 392: 124 – 128*.* (2010)
3. Jiang, S, Fritz, DT, and **Rogers, M. B.** A Conserved Post-Transcriptional Bmp2 Switch in Lung Cells, *Journal of Cellular Biochemistry* 110: 509 – 521. (2010)
4. Devaney, J. M., Tosi, L. L., Fritz, D. T., Gordish-Dressman, H. A., Jiang, S., Orkunoglu-Suer, F. E., Gordon, A. H., Harmon, B. T., Thompson, P. D., Clarkson, P. M., Angelopoulos, T. J., Gordon, P. M., Moyna, N. M., Pescatello, L. S., Visich, P. S., Zoeller, R. F., Brandoli, C., Hoffman, E. P., **Rogers, M. B.** Differences in Fat and Muscle Mass Associated With a Functional Human Polymorphism in a Post-transcriptional BMP2 Gene Regulatory Element. *Journal of Cellular Biochemistry* 107: 1073 – 1082. (2009)
5. Liu D, Fritz, DT, **Rogers MB**, Shatkin, AJ (Species-specific cis-regulatory elements in the 3′UTR direct alternative polyadenylation of bone morphogenetic protein 2 mRNA. *Journal of Biological Chemistry* (283) 28010-28019. (2008)
6. Das, P., Doyle, T.J., Liu, D., Kochar, J., Kim, K.H., **Rogers, M.B.** Retinoic Acid Regulation of Eye and Testis-Specific Transcripts within a Complex Locus*.* *Mechanisms of Development*. 124: 137-145. (2007)
7. Han, K, Song, H, Moon, I, Augustin, R, Moley, K, **Rogers, MB**, H. Lim Utilization of DR1 as True RARE in Regulating the Ssm, a Novel Retinoic Acid-Target Gene in the Mouse Testis. *Journal of Endocrinology* 192(3):539-51. (2007)
8. Jiang S, Zhang S, Langenfeld J, Lo S.-C, **Rogers, MB** Mycoplasma Infection Transforms Normal Lung Cells and Induces Bone Morphogenetic Protein 2 Expression by Post-transcriptional Mechanisms *Journal of Cellular Biochemistry* 104(2): 580-594*.* (2007)
9. Xu J, **Rogers MB.** Modulation of Bone Morphogenetic Protein (BMP) 2 Gene Expression by Sp1 Transcription Factors. *Gene* 392: 221–229. (2007)
10. Hu J, Fritz DT, Tian B, **Rogers MB**. Using Emerging Genome Data to Identify Conserved Bone Morphogenetic Protein (Bmp)2 Gene Expression Mechanisms. *ACM First International Workshop on Text Mining in Bioinformatics (TMBIO2006) Proceedings.* ACM Press, New York, NY(2006)
11. Fritz DT, Jiang S, Xu J, **Rogers MB**. A Polymorphism in a Conserved Post-transcriptional Regulatory Motif Alters BMP2 RNA:Protein Interactions. *Molecular Endocrinology* 20: 1574-1586(2006)
12. Abrams, K.L., Xu J., Nativelle-Serpentini, C., Dabirshahsahebi, S., and **Rogers,** **M.B**. An Evolutionary and Molecular Analysis of Bmp2 Expression*. Journal of Biological Chemistry.* 279: 15916-28, pub. online 2/2/04. (2004)
13. Fritz DT, Liu D, Xu J, Jiang S, **Rogers MB**. Conservation of Bmp2 post-transcriptional regulatory mechanisms*.* *Journal of Biological Chemistry*. 279: 48950 - 48958. (2004)
14. Glozak, M.A., Li, Y., Reuille, R., Kim, K.H., Vo, M.N., and **Rogers, M.B**. Trapping and Characterization of Novel Retinoid Response Elements. *Molecular Endocrinology*, 17: 27-41published on-line 10/3/02. (2003)
15. Glozak, M.A. and **Rogers, M.B.** Retinoic Acid- and Bone Morphogenetic Protein 4- Induced Apoptosis in P19 Embryonal Carcinoma Cells Requires p27. *Experimental Cell Research*. 268: 128-138. (2001)
16. Heller, L.C., Li, Y., Abrams, K.A. and **Rogers, M.B.** Transcriptional Regulation of the Bmp2 Gene: Retinoic Acid Induction in F9 Embryonal Carcinoma Cells and Saccharomyces cerevisiae. *Journal of Biological Chemistry*. 274: 1394-1400*.* (1999)
17. Li, Y, Glozak, M.A., Smith, S.M., and **Rogers, M.B.** The Expression and Activity of D-type Cyclins in F9 Embryonal Carcinoma Cells: Modulation of Growth by RXR-selective Retinoids. *Experimental Cell Research*. 253: 372-384*.* (1999)
18. Li, Y., MacLennan, A.J., and **Rogers, M.B.** A Putative G-Protein Coupled Receptor, H218, is Down-regulated During the Retinoic Acid-Induced Differentiation of F9 Embryonal Carcinoma Cells. *Experimental Cell Research*. 230: 320-325. (1998)
19. Glozak, M.A. and **Rogers, M.B.** BMP4 and RA-induced Apoptosis is Mediated through the Activation of Retinoic Acid Receptor α and γ in P19 Embryonal Carcinoma Cells. *Experimental Cell Research*. 242: 165-173. (1998)
20. **Rogers, M.B.,** Glozak, M.A., and Heller, L.C. Induction of Altered Gene Expression in Early Embryos. *Mutation Research*. 396: 79-95*.* (1997)
21. **Rogers, M.B.** Receptor-selective Retinoids implicate RAR α and γ in the Regulation of bmp-2 and bmp-4 in F9 Embryonal Carcinoma Cells. *Cell Growth & Differentiation*. 7: 115-122. (1996)
22. Glozak, M.A. and **Rogers, M.B.** Specific Induction of Apoptosis in P19 Embryonal Carcinoma Cells by Retinoic Acid and BMP2 or BMP4. *Developmental Biology*. 179: 458-470. (1996)
23. Hosler, B.A., **Rogers, M.B.,** Kozak, C.A., Gudas, L.J. An Octamer Motif Contributes to the Expression of the Retinoic Acid-Regulated Zinc Finger Gene Rex-1 (Zfp-42) in F9 Teratocarcinoma Cells*.* *Molecular Cellular Biology*. 13: 2919-2928. (1993)
24. **Rogers, M.B.,** Rosen, V., Wozney,J. M.,and Gudas, L.J. Bone Morphogenetic Proteins-2 and 4 are involved in the Retinoic Acid-induced Differentiation of Embryonal Carcinoma Cells. *Molecular Biology of the Cell*. 3: 189-196. (1992)
25. Sasaki, A., Doskow, J., MacLeod, C.L., **Rogers, M.B.,** Gudas, L.J., and Wilkinson, M. The oncofetal gene Pem encodes a homeodomain and is regulated in primordial and pre-muscle stem cells. *Mechanisms of Development*. 34: 155-164. (1991)
26. **Rogers, M.B.,** Hosler, B., and Gudas, L.J. Specific Expression of a Retinoic Acid Regulated, Zinc Finger Gene, Rex-1, in Preimplantation Embryos, Trophoblast, and Spermatocytes. *Development*. 113: 815-824. (1991)
27. Sundin, O.H., Busse, H.G., **Rogers, M.B.,** Gudas, L.J., and Eichele, G. Region specific expression in early chick and mouse embryos of Ghox-lab and Hox 1.6, vertebrate homeobox-containing genes related to Drosophila labial. *Development*. 108: 47-58. (1990)
28. **Rogers, M.B.,** Watkins, S.C., and Gudas, L.J. Gene expression in visceral endoderm: a comparison of mutant and wild type F9 embryonal carcinoma cell differentiation. *Journal of Cellular Biology* 110: 1767-1777. (1990)
29. **Rogers, M.B.** and Karrer, K.M. Cloning of Tetrahymena genomic sequences whose message abundance is increased during conjugation. *Developmental* *Biology*. 131: 261-268(1989)
30. **Rogers, M.B.** and Karrer, K.M. Adolescence in Tetrahymena thermophila. *Proceedings of the National Academy of Science, USA* 82: 436-439. (1985)
31. **Brinkman, M.,** Fogelman, K., Hoeflein, J., Lindh, T., Pastel, M., Trench, W.C., and Aikens, D.A. Distribution of Polychlorinated Biphenyls in the Fort Edward, New York, Water System. *Environmental Management* 4: 511-520. (1980)

1. BOOKS, MONOGRAPHS AND CHAPTERS
2. **Rogers, M.B. (Editor)** *Bone Morphogenetic Proteins Methods and Protocols*Springer series *Methods in Molecular Biology* (in press 2018)
3. Zeller, R. and **Rogers, M.** *In situ* hybridization to cellular RNA. *In* *Current Protocols in Pharmacology.* John Wiley & Sons, NY, A.3F.1-A.3F.14. (1999)
4. **Rogers, M.** and Zeller, R. Counterstaining and Mounting of Autoradiographed *In situ* Hybridization Slides. *In* *Current Protocols in Molecular Biology*. Ausubel, F., Brent, R., Kingston, R.E., Moore, D., Seidman, J., Smith, J.A., and Struhl, K., eds. Wiley Interscience, NY, 14.3.1-14.3.14. (1991)
5. **Rogers, M.** and Zeller, R. *In situ* hybridization to cellular RNA. *In* *Current Protocols in Molecular Biology*. Ausubel *et al*., eds. Wiley Interscience, NY, 14.5.1-14.5.5. (1989)
6. **Rogers, M.** Detection of hybridized probe. *In* *Current Protocols in Molecular Biology.* Ausubel *et al*., eds. Wiley Interscience, NY, 14.4.1-14.4.3. (1989)
7. PATENTS HELD: N/A
8. OTHER ARTICLES IN JOURNALS: REVIEWS
9. **Rogers, M.B**. Mycoplasma and cancer: in search of the link; *Oncotarget*, 2: 271 - 273. (2011) Commentary on: Barykova, YA, DY Logunov, MM Shmarov, AZ Vinarov, DN Fiev, NA Vinarova, IV Rakovskaya, PS Baker, I Shyshynova, AJ Stephenson, EA Klein, BS Naroditsky, AL Gintsburg, and AV Gudkov, Association of Mycoplasma hominis infection with prostate cancer. *Oncotarget*, 2: 289-97. (2011)
10. **Rogers, M.** and Langenfeld, J. Chance favors only the prepared mind. *UMDNJ Research*. 10: 4 – 5. (2009)
11. Sadler, T.W., **Rogers, M.,** Slavkin, H., Lauder, J., Maness, P., Linney, E., Sulik, K., and Mirkes, P. Growth and Differentiation Factors. *Reproductive Toxicology*. 11: 331-337. (1997)
12. **Rogers, M.B.** Life and Death Decisions Influenced by Retinoids. *Current Topics in Developmental Biology* 35: 1-46. (1997)
13. **Rogers, M.B.** Retinoids: a Window into Vertebrate Development. *Journal of the Florida Medical Association*. 81: 553-556. (1994)
14. ABSTRACTS (published only)
15. **Rogers, M.B.** and Jiang, S. Switching from repression to activation: Post-transcriptional regulation of BMP2 synthesis. *Developmental* *Biology*. 319: 463, abstract #3. (2008)
16. Jiang S, Fritz DT, **Rogers MB** The Role of the 3’UTR in Regulating BMP2 Gene Expression in Lung Cells. *Molecular Biology of the Cell*. 17 (suppl), 1844. (2006)
17. **Rogers, M.B.,** Fritz, D.T., and Jiang, S. Bmp2 Gene Regulation: Genetic Polymorphisms. *Journal of Bone & Mineral Research*. 21: S210. (2006)
18. Abrams, K.L. and **Rogers, M.B.** Retinoic Acid Altered Expression of Bmp2. *Developmental* *Biology*. 222: 219. (2000)
19. Glozak, M.A. and **Rogers, M.B.** Cell Cycle Proteins and the Induction of Apoptosis in P19 EC Cells. *Developmental* *Biology*. 210: 222. (1999)
20. **Rogers, M.B.,** Glozak, M.A., Smith, S.M., and Hinton, D.A. The Role of Retinoic Acid and Bone Morphogenetic Proteins in Inducing Apoptosis. *Developmental* *Biology*. 198: 212. 1998)
21. Li, Y. and **Rogers, M.** Antiproliferative effects of RXR-selective retinoids in F9 embryonal carcinoma cells. *Developmental* *Biology*. 186: 338. (1997)
22. Heller, L.C. and **Rogers, M.B.** Retinoic Acid Regulation of the BMP2 Gene. *Devl. Biol.* 175: 388. (1996)
23. **Rogers, M.B.,** Y. Li, and A.J. MacLennan. Genes Down-Regulated during the Retinoic Acid-Induced Differentiation of F9 Cells. *Developmental* *Biology*. 175: 388. (1996)
24. Glozak, M.A. and **Rogers, M.B.** Specific Induction of Apoptosis in P19 Embryonal Carcinoma Cells by Retinoic Acid and BMP2/4. *Developmental* *Biology*. 175: 388. (1996)
25. **Rogers, M.B.** Retinoic Acid and Bmp2 & 4 Regulated Differentiation of Embryonic Stem Cells and F9 Cells. *Developmental* *Biology*. 170: 747 (1995)
26. REPORTS**: N/A**

**PRESENTATIONS:**

1. Scientific (Basic Science):

Experimental Biology 2003- “Translating the Genome”, Apr. 13, 2003, San Diego, CA,

Session Co-Chair, “*Vitamin A and Retinoids II*” Lecture: “*Trapping and Characterization of Novel Retinoid Response Elements*”

Cold Spring Harbor Apr. 2004 - Evolution of Developmental Diversity, “*A Conserved 3' Untranslated Element Controls Bmp2 Transcript Stability*”, Cold Spring Harbor, NY

FASEB Summer Research Conference – Retinoids, June 21, 2006, “*Retinoic Acid Regulation of BMP2*”Indian Wells, CA

Society for Developmental Biology 67th Annual Meeting, July 26-30, 2008, “*Switching from Repression to Activation: Post-Transcriptional Regulation of BMP2 Synthesis*” Philadelphia, PA

Weinstein Cardiovascular Development Conference, May 17, 2008, “*An Ultra-conserved Region in the Bone Morphogenetic Protein (BMP) 2 gene is a Post-transcriptional Repressor in the Developing Heart of the epicardial lineage and a subset of the neural crest lineage*” Houston, TX

Weinstein Cardiovascular Development Conference, May 7, 2009, “*An Ultra-conserved Region in the Bone Morphogenetic Protein (BMP)2 3’Untranslated Region is a Gene Repressor In Vivo*” San Francisco, CA

Weinstein Cardiovascular Development Conference, May 5 - 8, 2011, “*Turning off Bone Morphogenetic Protein (BMP) 2*” Cincinnati, OH

Association of Biochemistry Course Directors (ABCD) meeting, May 5 - 9, 2013, “*Teaching of Biochemistry in Medical School – A few more steps along the pathway”* Santa Fe, NM

Weinstein Cardiovascular Development Conference, May 16 - 18, 2013, “*Controlling Bone Morphogenetic Protein 2 (BMP2) In Embryos and Calcifying Tissues*” Tucson, AZ

Grantee Meeting for Basic Research in CAVD Investigators Alliance, Sept. 20, 2013, “*BMP2 Gene Regulation in CAVD*”, Boston, MA

Grantee Meeting for Basic Research in CAVD Investigators Alliance, Nov. 15, 2014, “*BMP2 Gene Regulation in CAVD*”, Chicago, IL

2014 Scientific Sessions, American Heart Association, Nov. 15 – 20, 2014, “*Mechanisms that Repress Bone Morphogenetic Protein 2 (BMP2) In Mesenchymal Cells”* Chicago, IL

Weinstein Cardiovascular Development Conference, Apr. 30 – May 2, 2015, “*Characterization of a New Bmp2 Allele*” Boston, MA

Symposium on Open Access: *Perspectives in Biomedical and Health Sciences*, Oct. 20, 2015. *Panelist*, Rutgers NJMS, Newark NJ

Grantee Meeting for Basic Research in CAVD Investigators Alliance, Nov. 7, 2015, “*BMP2 Gene Regulation in CAVD*”, Orlando, FL

Weinstein Cardiovascular Development Conference, May 19 - 21, 2016, “*A New Hypermorphic Bmp2 Allele*” Durham, NC

11th International BMP Conference, Oct. 26 - 30, 2016, “*A New Hypermorphic Bmp2 Allele*” Boston, MA

Weinstein Cardiovascular Development Conference, May 4 - 6, 2017, “*Characterization of New Bone Morphogenetic Protein (Bmp)-2 Regulatory Alleles*” Columbus, OH

Invited seminar, Dec. 20, 2017, “*BMP2 Gene Regulation*”, Molecular Cell Biology, Leiden University Medical Center, Leiden, Netherlands

Weinstein Cardiovascular Development Conference, May 17 - 19, 2018, “*Post-Transcriptional Regulation of Bone Morphogenetic Protein 2 (BMP2): Embryos, Disease, and Sex*” Nara, Japan

**RESOURCES PROVIDED TO THE SCIENTIFIC COMMUNITY:**

**A. Genetically Engineered Mouse Models (GEMM):**

*Bmp2* conditional allele (*Bmp2flU*, MMRRC:042043) deposited in the Mutant Mouse Resource & Research Centers (MMRRC, https://www.mmrrc.org) repository

*Bmp2* conditional allele (*Bmp2NeoUCS*, MMRRC: 042279) deposited in the MMRRC

**B. Public databases:**

Microarray database GEO accession # GSE557487