

CURRICULUM VITAE

Michael B. Dwinell PhD

**Center Director, Professor
Department of Microbiology and Immunology**

OFFICE ADDRESS:

8701 Watertown Plank Road

Milwaukee, WI 53226

EDUCATION:

08/1988 - 05/1990 B.A. University of Wisconsin, Madison, WI.

09/1991 - 12/1993 M.S. University of Wisconsin, Madison, WI.

12/1993 - 12/1996 Ph.D. University of Wisconsin, Madison, WI.

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

10/1996 - 07/1999 Postdoctoral Fellow, Department of Medicine, University of California, San Diego, La Jolla, CA.

MILITARY SERVICE:

06/1985 - 05/1992 United States Navy Reserve

FACULTY APPOINTMENTS:

07/1999 - 03/2001 Assistant Project Immunologist, Department of Medicine, University of California, San Diego, La Jolla, CA

04/2001 - 06/2007 Assistant Professor, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, Milwaukee, WI

07/2004 - Present Professor, Graduate School, Medical College of Wisconsin, Milwaukee, WI

07/2007 - 06/2009 Associate Professor, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, Milwaukee, WI

07/2009 - 06/2015 Associate Professor with Tenure, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, Milwaukee, WI

07/2015 - Present Professor with Tenure, Department of Microbiology and Immunology, Medical College of Wisconsin, Milwaukee, WI

03/2017 - Present Professor, Secondary Appointment, Department of Surgery, Medical College of Wisconsin, Milwaukee, WI

ADMINISTRATIVE APPOINTMENTS:

07/2001 - Present Member, Digestive Disease Center, Medical College of Wisconsin, Milwaukee, WI

05/2002 - Present Member, Medical College of Wisconsin Cancer Center, Medical College of Wisconsin, Milwaukee, WI

12/2006 - Present Member, Center for Infectious Disease Research, Medical College of Wisconsin, Milwaukee, WI

09/2009 - 09/2011 Co-Director, Human Pancreatobiliary Biobank, Departments of Microbiology and Molecular Genetics, Surgery, and Pathology, Medical College of Wisconsin, Milwaukee, WI

04/2018 - Present Member, Genomic Sciences & Precision Medicine Center, Medical College of Wisconsin, Milwaukee, WI

07/2018 - Present Director, Center for Immunology, Medical College of Wisconsin, Milwaukee, WI

EDUCATIONAL ADMINISTRATIVE APPOINTMENTS:

- 01/2012 - Present Director, Gastrointestinal and Nutritional Pathophysiology, M2 Discovery Medical School Curriculum, Medical College of Wisconsin, Milwaukee, WI
10/2015 - Present Member, Academic Standing and Professionalism Committee, School of Medicine, Medical College of Wisconsin, Milwaukee, WI

RESEARCH ADMINISTRATIVE APPOINTMENTS:

- 06/2008 - Present Director, Department of Microbiology and Immunology, Bobbie Nick Voss Laboratory for Colon Cancer Research, Medical College of Wisconsin, Milwaukee, WI
09/2012 - 06/2013 Co-Leader and Investigator, Medical College of Wisconsin Cancer Center, Angiogenesis, Metastasis and the Tumor Microenvironment Research Program, Medical College of Wisconsin, Milwaukee, WI
07/2013 - 2015 Research Member, Medical College of Wisconsin Cancer Center, Cancer Biology Research Program, Medical College of Wisconsin, Milwaukee, WI
07/2019 - Present Member, Medical College of Wisconsin Cancer Center, Internal Advisory Board, Medical College of Wisconsin, Milwaukee, WI

AWARDS AND HONORS:

- 1994 Student Travel Grant, American Association of Veterinary Parasitologists, San Francisco, CA
1994 Marc Dresden Student Travel Award, American Society of Parasitologists, Fort Collins, CO
1995 George LaRue Award: best student oral presentation, Midwestern Conference of Parasitologists, Milwaukee, WI
1995 - 1996 Predoctoral Fellowship: National Institutes of Health, NIAID, Cellular and Molecular Parasitology Training Grant (T32 AI07414), University of Wisconsin, Madison
1996 - 1999 Postdoctoral Fellowship: National Institutes of Health, NIDDK, Gastroenterology Training Grant (T32 DK07202, University of California, San Diego, La Jolla, CA
1996 Marc Dresden Student Travel Award, American Society of Parasitologists, Tucson, AZ
1999 - 2000 Career Development Award, Crohn's and Colitis Foundation of America, New York, NY
2001 New Investigator Award, Medical College of Wisconsin Digestive Disease Center, Milwaukee, WI
2002 American Cancer Society Pilot Research Award, Medical College of Wisconsin Cancer Center, Milwaukee, WI
2003 New Faculty Grant, Research Affairs Committee, Medical College of Wisconsin, Milwaukee, WI
2003 - 2006 FIRST Award, Crohn's and Colitis Foundation of America, New York, NY
2003 - 2005 Emory T. Clarke Interdisciplinary Research Grant, Medical College of Wisconsin, Cancer Center, Milwaukee, WI
2004 Host Investigator, Mr. Charles Allen, Frontiers in Physiology, Research Teacher, the American Physiological Society, Bethesda, MD
2005 Host Investigator, Mr. Michael Aprill, Frontiers in Physiology Research Teacher, the American Physiological Society, Bethesda, MD
2007 Recipient, Laboratory Naming, Bobbie Nick Voss Charitable Funds in Colon Cancer Research, Elm Grove, WI
2008 Wisconsin Breast Cancer Showhouse Award, Cancer Center, Medical College of Wisconsin, Milwaukee, WI
2009 Outstanding Medical Student Teacher, Medical College of Wisconsin, Milwaukee, WI
2011 Outstanding Reviewer, Laboratory Investigation, Nature Publishing Group, New York, NY
2012 Outstanding Medical Student Teacher, Medical College of Wisconsin, Milwaukee, WI
2014 Outstanding Medical Student Teacher, Medical College of Wisconsin, Milwaukee, WI
2014 Excellence Award, Advancing A Healthier Wisconsin Endowment, Milwaukee, WI
2016 Outstanding Graduate Student Teacher, Medical College of Wisconsin, Milwaukee, WI
2016 Outstanding Medical Student Teacher, Medical College of Wisconsin, Milwaukee, WI
2016 Leadership for Social Inclusion and Equity Workshop, National Coalition Building Institute Campus Affiliate Program at the Medical College of Wisconsin, Milwaukee, WI
2016 Leadership Academy, Medical College of Wisconsin and the University of Wisconsin-Milwaukee Sheldon B. Lubar School of Business, Milwaukee, WI
2017 Outstanding Faculty Service Award, Medical College of Wisconsin, Milwaukee, WI
2017 Permanent Member, Tumor Microenvironment Study Section, Center for Scientific Review, National Institutes of Health, Bethesda, MD
2018 Outstanding Mentor Award, in recognition of Teaching Excellence, Graduate Student Association,

Medical College of Wisconsin, Milwaukee, WI
2018 Outstanding Medical Student Teacher, Medical College of Wisconsin, Milwaukee, WI
2018 Magnanimous Mentor, Office of Research, Medical College of Wisconsin, Milwaukee, WI
2018 Mentor of the Year, Graduate School of Biomedical Sciences, Medical College of Wisconsin,
Milwaukee, WI
2019 MCW Cancer Center Outstanding Basic Science Achievement Award, Medical College of Wisconsin,
Milwaukee, WI

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

1992 - Present American Physiological Society (ID#00008153)
1992 - 1998 American Society of Parasitologists
1999 - Present American Gastroenterological Association (ID# 183761)
2000 - 2004 Gastroenterology Research Group
2005 - 2011 Society for Mucosal Immunology
2006 - 2008 American Association of Immunologists
2012 - Present American Association for Cancer Research (ID# 268584)
2013 - Present American Society for Biological Chemistry & Molecular Biology (ID# 33970)
2015 - 2016 American Society of Clinical Oncology

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Editorial Board

2001 - 2003 American Journal of Physiology Gastroenterology and Liver Physiology, Bethesda MD
2006 - 2009 Laboratory Investigation, New York, NY
2011 - Present Molecular Carcinogenesis, Wiley & Sons Inc, Malden, MA
2012 - Present Tissue Barriers, Landes Bioscience, Austin, TX
2013 - Present Journal of Biological Chemistry, ASBMB, Bethesda, MD
2019 - Present International Journal of Molecular Sciences, MDPI, Basel

Journal Review

2001 - Present Journal of Immunology, Bethesda, MD
2001 - Present American Journal of Physiology, Bethesda, MD
2003 - Present Experimental Parasitology, San Diego, CA
2004 - Present Journal of Biological Chemistry, Bethesda, MD
2004 - Present Gastroenterology, Elsevier, Philadelphia, PA
2004 - Present Laboratory Investigation, New York, NY
2004 - Present Inflammatory Bowel Diseases, Hoboken, NJ
2004 - Present Cytokine, Cambridge, UK
2004 - Present Cellular and Molecular Life Sciences, Basel, Switzerland
2006 - Present Cellular Microbiology, Boston, MA
2006 - Present FEBS Letters, Heidelberg, Germany
2006 - Present Nature Protocols, London, UK
2006 - Present Physiological Genomics, Bethesda, MD
2006 - Present Molecular Cancer Therapeutics, Philadelphia, PA
2006 - Present International Journal of Cancer, Heidelberg, Germany
2007 - Present Oncogene, London, UK
2008 - Present Cancer Research, Stanford, CA
2008 - Present BMC Cancer, London, UK
2008 - Present Hepatology, Hoboken, NJ
2008 - Present Cancer Science, Boston, MA
2009 - Present Gut, BMJ Publishing Group Limited, London, UK
2010 - Present Molecular Carcinogenesis, Wiley Publications, Hoboken, NJ
2011 - Present Free Radical Biology & Medicine, Elsevier, San Diego, CA
2011 - Present Molecular Biology of the Cell, Bethesda, MD
2012 - Present Apoptosis, Springer Netherlands, Amsterdam
2014 - Present Cellular & Molecular Gastroenterology & Hepatology, Elsevier
2015 - Present PloSOne, San Francisco, CA
2016 - Present Nature Communications, Nature Publishing Group
2016 - Present Scientific Reports, Nature Publishing Group

2018 - Present International Journal of Molecular Sciences, MDPI, Basel

LOCAL/REGIONAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

- 1992 - 1996 Member, Department of Animal Health and Biomedical Sciences Seminar Committee, University of Wisconsin, Madison
- 04/2001 - 06/2018 Member, Committee on Immunology, MCW - Center for Immunology
- 11/2001 - Present Judge, Medical / Graduate Student Research Day, MCW-Graduate School of Biomedical Sciences
- 02/2002 - 03/2002 Interviewer, Interdisciplinary Program in Biomedical Sciences, MCW - Graduate School of Biomedical Sciences
- 07/2002 - Present Member, Digestive Disease Center Grant Review Committee, MCW - School of Medicine
- 08/2002 - Present Reviewer, Summer Program in Undergraduate Research (SPUR) oral presentations, MCW - Biomedical Graduate Program
- 03/2003 Junior Faculty Committee, Basic Science, Liaison Committee on Medical Education (LCME), MCW - School of Medicine
- 01/2004 - 07/2004 Member, Search Committee for Assistant/Associate Professor in Virology and Immunology, MCW - Department of Microbiology & Immunology (recruited: A. Hudson, W. Jackson)
- 03/2004 Curriculum and Evaluation Committee, M1/M2 Educational Objectives Retreat, MCW - School of Medicine
- 11/2005 Curriculum and Evaluation Committee, Medical Curriculum Objectives Retreat, MCW - School of Medicine
- 02/2006 - Present Chair of Course Development, Committee on Immunology, MCW - School of Medicine
- 02/2006 - 07/2007 Member, Search Committee for Assistant / Associate Professor in Center for Biopreparedness and infectious Disease, Microbial Pathogenesis/ Host Response, MCW - Department of Microbiology & Immunology (recruited: V. Tarakanova, C. Kristich)
- 08/2006 - 2009 Member, Oversight Committee, Biophotonic Imaging Core, MCW - School of Medicine
- 09/2006 Comprehensive Evaluation, Higher Learning Commission of the North Central Association of Colleges and Schools Accreditation Site Visit, MCW - School of Medicine
- 09/2006 Curriculum and Evaluation Committee, Genetics in the MCW Medical Curriculum Retreat, MCW - School of Medicine
- 10/2006 - 04/2012 Reviewer, American Cancer Society, Institutional Research Grant Applications, MCW - Cancer Center
- 04/2007 Discussant, Institutional Clinical and Translational Science Award Community Engagement Focus Group for Clinical and Translational Genetics Researchers, MCW - School of Medicine
- 04/2007 Convener, M1 or M2 Test Construction Committee, National Board of Medical Examiners Pilot Customized Assessment Examination, MCW - School of Medicine
- 04/2007 Reviewer, Reiman Post-Doctoral Fellowship Applications, MCW - Cancer Center
- 11/2007 Curriculum and Evaluation Committee, Integration of the Medical Curriculum Retreat, MCW - School of Medicine
- 01/2008 - 11/2008 Member, Search Committee, Van Dueren Endowed Chair in Breast Cancer Research, MCW - Cancer Center
- 09/2008 Facilitator, Medical College of Wisconsin Education Innovation Retreat, GE Healthcare Institute, MCW - School of Medicine
- 11/2008 - Present Reviewer, Advancing A Healthier Wisconsin Endowment - Translational Research Grant applications, Research Affairs Committee, MCW - School of Medicine
- 11/2008 - Present Interviewing & Admissions Committee, Medical Scientist Training Program, MCW - School of Medicine
- 12/2008 Reviewer, Wisconsin Breast Cancer Showcase grant applications, MCW - Cancer Center
- 01/2009 - 07/2011 Founder and Director, Inflammation and Cancer Cell Biology Research Group, MCW - Cancer Center
- 02/2009 Facilitator, Medical College of Wisconsin 2nd Education Innovation Retreat, Brookfield Suites and Convention Center, MCW - School of Medicine
- 02/2009 - 01/2011 Member, Steering Committee, Biospecimen Resource Facility, MCW - School of Medicine
- 09/2009 - 09/2011 co-Director with Dr. Doug Evans & Dr. Saul Suster, Human Pancreatobiliary Tissue Biobank Pilot Program, MCW - School of Medicine

09/2009 - 12/2014 co-Director with Dr. Bryon Johnson, Biophotonic Imaging Core, MCW - School of Medicine

10/2009 - 07/2010 Dean's Appointee, Search Committee, Chairman for the Department of Otolaryngology and Communication Sciences, MCW - School of Medicine (recruited: John Rhee, MD)

12/2009 - 11/2011 Reviewer, Clinical and Translational Science Institute Pilot Grants, MCW - School of Medicine

01/2010 - 07/2011 Liaison Committee on Medical Education (LCME) Institutional Self-Study Committee, Retreat on Institutional Setting, MCW - School of Medicine

01/2010 - 10/2010 Member, Search Committee for Assistant / Associate Professor in Innate Immunity, MCW - Department of Microbiology & Immunology (recruited: R. Robinson)

10/2010 Participant, Medical Student Curriculum Retreat, Revitalization of M3-M4 Curriculum, MCW - School of Medicine

01/2011 Reviewer, Women's Health Research Program, MCW - School of Medicine

06/2011 - 10/2012 Member, Search Committee for Assistant / Associate Professor in Cancer Cell Biology Program, MCW - Cancer Center (recruited: J. Jeong)

08/2011 New Curriculum Design Summit #1 and Summit #2, MCW - School of Medicine

11/2011 Reviewer, Novel Cancer Research Project Grant applications, MCW - Cancer Center

07/2012 National Youth Leadership Forum - Medical Forum, Demonstration "A Typical medical School Lecture", MCW - School of Medicine

01/2013 - 07/2014 Co-Chair, Inflammation and Immunology Research Strategy Group, MCW - Center for Immunology

01/2013 - 06/2014 Member, Search Committee for Assistant / Associate Professor in Cancer Cell Signaling & Metabolism Program, MCW - Cancer Center

02/2013 - 09/2014 Chair, Search Committee, Molecular Imaging in Cancer Recruitment, MCWCC Molecular Cancer Therapeutics Program (recruited: A. Joshi)

04/2013 - 06/2015 co-Leader, Inflammation and Immunology Work Group, Research Strategy Planning, MCW - School of Medicine

05/2013 Rounding with the Dean "Translational Pancreatic Cancer Research: A Template for the MCW Cancer Center", MCW - School of Medicine

06/2013 Discussant, Strategic Planning Retreat, MCW - Cancer Center

08/2013 Ad hoc, Clinical Research Seed Grant Review Committee, MCW - Cancer Center

12/2013 - Present Member, American Cancer Society, Institutional Research Grant Application Review Committee, MCW - Cancer Center

12/2013 - Present Member, Basic Research Seed Grant Review Committee, MCW - Cancer Center

03/2014 - Present Judge, MCW Mobile App Challenge, MCW - School of Medicine

04/2014 Inflammation and Immunology Research Strategy, Presentation to School of Medicine Research Council, MCW - Center for Immunology

06/2014 Inflammation and Immunology Lunch and Learn, Research Strategy Presentation to MCW Board of Trustees, MCW - Center for Immunology

07/2014 - 11/2015 Chair, Search Committee, Cell Signaling in Cancer & Inflammation, Molecular Cancer Therapeutics Program, MCW - Cancer Center

09/2014 - 02/2017 Chair, Search Committee, Pancreatic Cancer Basic Science Researcher, MCW - Cancer Center (recruited: Gwen Lomberk & Raul Urrutia (Director, GSPMC))

05/2015 Wisconsin Breast Cancer Research and Advocacy Boot Camp, Clinical & Translational Science Institute of Southeast Wisconsin, the Medical College of Wisconsin, Froedtert, Medical College Cancer Center, and the Wisconsin Breast Cancer coalition, MCW - School of Medicine

12/2015 - 07/2016 Member, Search Committee for Chairman - Department of Dermatology, MCW - School of Medicine (recruited: Kenneth B. Gordon, MD)

08/2016 - 06/2018 Chairman, M1 / M2 Medical Course Directors Committee., MCW - School of Medicine

03/2017 - 05/2017 Member, Working Group / Steering Committee, MCW - Center for Immunology

10/2017 - 07/2018 Chair, Search Committee for Assistant / Associate Professor in Immunology, MCW - Department of Microbiology & Immunology (recruited: R. Lochhead)

05/2018 - 12/2018 Dean's Appointee, Search Committee, Director, Kern Institute for the Transformation of Medical Education (recruited: Adina Luba Kalet, MD, MPH), MCW - School of Medicine

07/2018 - Present Director, Center for Immunology, MCW

11/2018 - 06/2020 Member, Search Committee for Assistant/Associated Professor in Neuroinflammation - Neuroscience Research Center and Center for Immunology, MCW - Center for Immunology

(recruited: P. Lam, & Lezi E, Department of Cell Biology, Neurobiology, & Anatomy)
05/2019 - 09/2019 Member, Search Committee for Immunotherapy Scientist - Department of Medicine,
MCW - Cancer Center (recruited: Anthony Zamora, PhD)
07/2019 - 05/2020 Chair, Search Committee for Melanoma Biologist, Department of Dermatology, MCW -
Cancer Center (recruited: Yu-Chieh (Jack) Wang)
10/2019 - Present Dean's Appointee, Cancer Research Building Steering Committee, MCW - School of
Medicine

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

1997 - 1999 Member, Student Awards Committee, American Society of Parasitologists
01/2000 Co-Chair, Workshop on Mucosal Infection and Innate Immunity, Keystone Symposia on Molecular
and Cellular Biology,, Innate and Acquired Immunity at Mucosal Surfaces, Taos, NM
2000 Reviewer, Mucosal Inflammation Section, Host Defense; American Gastroenterological Association,
Digestive Disease Week 2001, Atlanta, GA
2002 - 2006 Reviewer, Immunology, Microbiology, Inflammatory Bowel Disorders section, American
Gastroenterological Association, Bethesda, MD Digestive Disease Week 2003, Orlando, FL. Digestive
Disease Week 2006, Los Angeles, CA
2003 - 2014 Chair, Research Forum, American Gastroenterological Association.
2003 Review Committee, US Civilian Research and Development Foundation Cooperative Grant Program
2004 - 2014 Reviewer, Intestinal Disorders Section, American Gastroenterological Association, Bethesda,
MD
03/2006 Ad hoc reviewer, National Institutes of Health, NIDDK Special Emphasis Panel Review Committee,
ZDK1 GRB-G (M3), Bethesda, MD
11/2006 Ad hoc grant reviewer, The Wellcome Trust, Basic Immunology and Infectious Diseases Panel,
London, United Kingdom
02/2007 Ad hoc reviewer, Research Advisory Board of the St Bartholomew and the London Charitable
Foundation, London, United Kingdom
11/2007 Ad hoc reviewer, Association for International Cancer Research, Madras House, St Andrews Fife,
KY16 9EH
2007 - 2010 Member, Perkins Memorial Fund Committee, American Physiological Society, Bethesda, MD
12/2008 Ad hoc grant reviewer, The Wellcome Trust, Basic Immunology and Gastrointestinal Diseases Panel,
London, United Kingdom
2008 - 2011 Reviewer, Senior Research Award Grant Review Committee, Crohn's and Colitis Foundation of
America, New York, NY
03/2009 - 11/2009 Ad hoc reviewer, National Institutes of Health, NIDDK Special Emphasis/Panel Review
Committee, Digestive Diseases and Nutrition Mentored and Training Awards, Bethesda, MD
04/2011 Ad hoc reviewer, Individual Research Grants, The Israel Science Foundation, Jerusalem, Israel
02/2012 Ad hoc reviewer, Gastrointestinal Mucosal Pathobiology (GMPB) Study Section, National Institutes
of Health, Center for Scientific Review, Bethesda, MD
03/2012 - 10/2013 Ad Hoc Reviewer, NCI Provocative Questions Special Emphasis Study Section, ZCA1
SRLB-R J1 R, Provocative Questions - Group B: Tumor Development or Recurrence, National
Institutes of Health, Center for Scientific Review, Bethesda, MD
10/2012 - 06/2014 Ad Hoc Reviewer, NIDDK-DDK-C Scientific Review Group Subcommittee, Digestive
Diseases and Nutrition, Mentored Awards and Training Awards, National Institutes of Health,
Bethesda, MD
05/2014 Ad hoc reviewer, NCI P01 Special Emphasis Panel I, 2014/10 ZCA1 RPRB-B (O1) P meeting,
Bethesda, MD
02/2015 - 06/2015 Ad hoc grant reviewer, Cancer Research UK, Science Committee, London, United
Kingdom
07/2015 Ad hoc reviewer, NCI Oncological Sciences Fellowship Special Emphasis Panel/Scientific Review
Group 2015/10 ZRG1 F09B-B (20) L, Internet Assisted Review
10/2015 - 06/2016 Ad hoc reviewer, NCI-I Subcommittee I - Transition to Independence Scientific Review
Group, Alexandria, VA
10/2016 - 02/2017 Ad hoc reviewer, NCI Tumor Microenvironment Scientific Review Panel, Bethesda, MD
07/2017 - 06/2020 Member & Co-Chair, Tumor Microenvironment Scientific Review Panel, Center for
Scientific Review, Bethesda, MD
10/2020 - Present Chair, Tumor Microenvironment Scientific Review Panel, Center for Scientific Review,

Bethesda, MD

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active

Peer Review

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|----------------|--|
| Title: | NIDDK Research Education Program |
| Source: | Research Education Project (R25 DK098104): National Institutes of Diabetes and Digestive and Kidney Diseases, and Kidney Diseases, National Institutes of Health, Bethesda, MD |
| Role & Effort: | Multi-PI/Multi-PD |
| PI: | KR Regner-contact & MB Dwinell |
| Dates: | 09/01/2013 - 08/31/2020 |
| Direct Funds: | \$272,782 |
| Title: | Targeting pancreatic cancer energy metabolism, tumor growth, and metastasis |
| Source: | Research Grant (U01 CA178960): National Cancer Institutes, National Institutes of Health, Bethesda, MD |
| Role & Effort: | Multi-PI |
| PI: | MB Dwinell-contact & B Kalyanaraman |
| Dates: | 07/01/2014 - 06/30/2019 |
| Direct Funds: | \$357,583 (No Cost Extension July 1, 2019 - June 30, 2020) |
| Title: | Structural basis for chemokine function |
| Source: | Research Grant (R01 AI058072-11), National Institutes of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD |
| Role & Effort: | Co-Investigator |
| PI: | BF Volkman |
| Dates: | 12/01/2014 - 11/30/2019 |
| Direct Funds: | \$200,000 |
| Title: | Regulation of Rap1 Prenylation and Trafficking in Breast Cancer |
| Source: | Research Grant (R01 CA188871): National Cancer Institutes, National Institutes of Health, Bethesda, MD |
| Role & Effort: | Co-Investigator |
| PI: | CL Williams |
| Dates: | 04/01/2015 - 03/31/2020 |
| Direct Funds: | \$250,000 |
| Title: | Sulfotyrosine-guided discovery of small molecule chemokine inhibitors |
| Source: | Research Grant (R01 GM097381-05A1): National Institutes of General Medical Sciences, National Institutes of Health, Bethesda, MD |
| Role & Effort: | Co-Investigator |
| PI: | BF Volkman |

Dates: 04/01/2018 - 03/31/2022
Direct Funds: \$250,000

Title: Translational investigation of a novel engineered variant of CCL20 as a therapeutic agent for psoriasis

Source: Research Grant (Translational Research Grant): National Psoriasis Foundation, Portland, OR

Role & Effort: Co-Investigator
PI: BF Volkman

Dates: 08/01/2018 - 07/31/2020
Direct Funds: \$200,000

Title: Biased chemokine receptor signaling in cancer progression

Source: Research Grant (R01 CA226279): National Cancer Institutes, National Institutes of Health, Bethesda, MD

Role & Effort: PI
Dates: 01/01/2019 - 12/31/2023
Direct Funds: \$1,762,360

Non-Peer Review

Title: Research in colon cancer

Source: Bobbi Nick Voss Charitable Foundation

Role & Effort: Principal Investigator

Dates: 07/01/2007 - Present
Direct Funds: \$250,000 (Charitable Gift)

Title: Medical Scientist Training Program

Source: Institutional National Research Service Award (T32 GM080202): National Institute of General Medicine, National Institutes of Health, Bethesda, MD

Role & Effort: Mentor Investigator
PI: JT Barbieri

Dates: 07/01/2010 - 06/30/2020
Direct Funds: \$93,944

Title: Pancreas Cancer Research Program

Source: The Advancing a Healthier Wisconsin Endowment, Medical College of Wisconsin, Milwaukee, WI

Role & Effort: Co-Investigator
PI: H. Rui

Dates: 02/01/2018 - 01/31/2023
Direct Funds: \$7,313,910

Title: MCW Cancer Center Director's Promising R01 Award

Source: Cancer Center, Medical College of Wisconsin, Milwaukee, WI

Role & Effort: Co-PI
PI: B. Kalyanaraman

Dates: 07/01/2019 - 06/30/2020
Direct Funds: \$50,000

Pending**Peer Review**

Title: IVIS Spectrum CT imager for the
Medical College of Wisconsin

Source: Small Instrument Grant (S10
OD026743-01): National Cancer
Institutes, National Institutes of Health,
Bethesda, MD

Role & Effort: PI

Dates: 07/01/2019 - 06/30/2020

Direct Funds: \$599,999 (IN REVISION FOR MAY
2021)

Title: Metabolic reprogramming in the
melanoma tumor microenvironment

Source: Research Grant (R01 CA253978-01)
National Cancer Institutes, National
Institutes of Health, Bethesda, MD

Role & Effort: Multi-PI

PI: MB Dwinell-contact & B Kalyanaraman

Dates: 07/01/2020 - 06/30/2025

Direct Funds: \$2,146,546 (DC Yr1 \$422,024)

Prior**Peer Review**

Title: Functional characterization and
regulated expression of chemokine
receptors by intestinal epithelial cells

Source: Career Development Award, Crohn's &
Colitis Foundation of America, New
York, NY

Role & Effort: Principal Investigator

Dates: 07/01/1999 - 08/31/2000

Title: Chemokine receptor expression on
intestinal epithelium

Source: Mentored Research Scientist
Development Award (K01): National
Institute of Diabetes and Digestive and
Kidney Diseases, National Institutes of
Health, Bethesda, MD. (K01 DK002808)

Role & Effort: Principal Investigator

Dates: 09/01/2000 - 08/31/2004

Title: Chemokine receptor regulation of the
epithelial barrier

Source: Crohn's and Colitis Foundation of
America, New York, NY

Role & Effort: Principal Investigator

Dates: 07/01/2003 - 06/30/2006

Title: Chemokines in host defense to
Campylobacter jejuni

Source: Exploratory/Developmental Research

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|----------------|---|
| Role & Effort: | Grant (R21): National Institute of Allergy and Infectious Disease National Institutes of Health, Bethesda, MD. (R21 AI055966) |
| Dates: | Principal Investigator 09/30/2003 - 08/31/2006 |
| Title: | Epithelial CXCR4 in a mucosal communication network |
| Source: | Research Grant (R01): National Institutes of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, Bethesda, MD. (R01 DK062066) |
| Role & Effort: | Principal Investigator |
| Dates: | 04/15/2005 - 07/31/2010 |
| Title: | cAMP functions as a molecular brake for epithelial restitution |
| Source: | Individual National Research Service Award, National Institute of Diabetes, Digestive and Kidney Diseases National Institutes of Health, Bethesda, MD. (F32 DK083209) |
| Role & Effort: | Sponsor |
| PI: | N.P. Zimmerman |
| Dates: | 12/01/2008 - 11/30/2010 |
| Title: | Epithelial CXCR4 in a mucosal communication network |
| Source: | Research Grant (R01): National Institutes of Diabetes and Digestive and Kidney Diseases, American Recovery and Reinvestment Act of 2009, National Institutes of Health, Bethesda, MD. (R01 DK062066-05S1) |
| Role & Effort: | Principal Investigator |
| Dates: | 07/15/2009 - 05/31/2010 |
| Title: | Epithelial CXCR4 in a mucosal communication network |
| Source: | Research Grant (R56): National Institutes of Diabetes and Digestive and Kidney Diseases, American Recovery and Reinvestment Act of 2009, National Institutes of Health, Bethesda, MD. (R56 DK062066) |
| Role & Effort: | Principal Investigator |
| Dates: | 08/01/2010 - 07/31/2012 |
| Title: | Therapeutic delivery of ADP-ribosylarginine hydrolase |
| Source: | Small Business Innovation Research Grant (Topic 91): National Heart, Lung, and Blood Institute, National Institutes of Health, Bethesda, MD |
| Role & Effort: | Vice President, Protein Foundry, LLC |
| Dates: | 09/15/2015 - 03/14/2017 |

Non-Peer Review

Title: Chemokine immunomodulation of colonic adenocarcinoma growth and differentiation
Source: American Cancer Society Institutional Research Grant 86-004, Medical College of Wisconsin Cancer Center
Role & Effort: Principal Investigator
Dates: 06/30/2002 - 06/29/2003

Title: Chemokines in host defense to *Campylobacter jejuni*
Source: Research Affairs Committee, Medical College of Wisconsin
Role & Effort: Principal Investigator
Dates: 07/01/2003 - 07/01/2004

Title: Analysis of epigenetic silencing in the immune surveillance chemokine SDF1
Source: Emory T. Clarke Interdisciplinary Research Grant, Cancer Center, Medical College of Wisconsin
Role & Effort: Principal Investigator
Dates: 07/01/2003 - 07/01/2004

Title: Mucosal barrier defense in epithelial CXCR4 null mice
Source: Bridge Grant, Research Affairs Committee, Medical College of Wisconsin
Role & Effort: Principal Investigator
Dates: 01/01/2005 - 04/14/2005

Title: Biophotonic Imaging Core
Source: The Advancing a Healthier Wisconsin Endowment, Medical College of Wisconsin
Role & Effort: Co-Investigator
PI: Robert Truitt, PhD
Dates: 02/01/2006 - 01/31/2007

Title: Epigenetic silencing of the chemokine CXCL12 in colon carcinogenesis
Source: New Interdisciplinary Research Grant, Cancer Center, Medical College of Wisconsin
Role & Effort: Principal Investigator
Dates: 01/01/2007 - 12/31/2008

Title: Inhibition of breast and prostate cancer cell metastasis with an engineered chemokine
Source: Wisconsin Tax Check-Off Program to Support Breast Cancer Research, Cancer Center, Medical College of Wisconsin
Role & Effort: Co-Investigator

PI: B. Volkman
 Dates: 01/01/2008 - 02/28/2011

Title: Mechanisms for autocrine SDF1
 interruption of breast cancer metastasis
 Source: Wisconsin Breast Cancer Show
 Showhouse for a Cure Award, Cancer
 Center, Medical College of Wisconsin
 Role & Effort: Principal Investigator
 Dates: 03/01/2008 - 02/28/2011

Title: SDF dimer as an inhibitor of
 inflammatory bowel diseases
 Source: Medical College of Wisconsin Research
 Foundation
 Role & Effort: Co-Investigator
 PI: B. Volkman
 Dates: 01/01/2009 - 12/31/2011

Title: CXCR4 in melanoma and cutaneous
 squamous cell carcinoma
 Source: Postdoctoral Fellowship, Medical
 College of Wisconsin Cancer Center
 Role & Effort: Co-Investigator
 PI: S.T. Hwang
 Dates: 01/01/2010 - 12/31/2011

Title: Defining the impact of the protein kinase
 VRK1 on the proliferation and
 oncogenic potential of mammary
 epithelial cells
 Source: Wisconsin Breast Cancer Show
 Showhouse for a Cure Award, Cancer
 Center, Medical College of Wisconsin
 Role & Effort: Co-Investigator
 PI: P. Traktman
 Dates: 07/01/2010 - 12/31/2012

Title: CXCL12 treatment as a novel
 therapeutic paradigm for breast cancer
 Source: Wisconsin Breast Cancer Showhouse for
 a Cure Award, Cancer Center
 Role & Effort: Principal Investigator
 Dates: 06/01/2011 - 05/31/2014

Title: Mechanisms and therapeutic targeting of
 pancreatic cancer malignancy
 Source: Cancer Center, Medical College of
 Wisconsin
 Role & Effort: Multi-Principal Investigator
 PI: Dwinell & Kalyanaraman
 Dates: 10/01/2011 - 09/30/2015

Title: Preclinical Studies of Pancreatic Cancer
 Malignancy
 Source: Pre-SPORE/PPG Project Planning Seed
 Grant – FP9214, Medical College of

| | |
|----------------|---|
| | Wisconsin Cancer Center and The Advancing a Healthier Wisconsin Endowment |
| Role & Effort: | Principal Investigator |
| Dates: | 01/01/2016 - 12/31/2018 |
| Title: | Treatment of PDAC with combined immunotherapy, Nox inhibition, and altered chemokine signaling |
| Source: | The Advancing a Healthier Wisconsin Endowment, Medical College of Wisconsin |
| Role & Effort: | Co-PI |
| PI: | BD Johnson |
| Dates: | 02/01/2016 - 01/31/2018 |
| Title: | Generation of conditional knockout mice with the targeted deletion of the cxcr4 gene from intestinal epithelial cells |
| Source: | Digestive Disease Center, Medical College of Wisconsin |
| Role & Effort: | Principal Investigator |

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

International

- Visiting Professor, Role for the intestinal epithelium in host defense and mucosal inflammation, Invited research seminar, Department of Medicine B, University of Münster, Münster, GERMANY, 02/2003
- Visiting Professor, Epithelial SDF1 and CXCR4: Roles in Mucosal Repair and Carcinoma Metastasis, Invited research seminar, Department of Pharmacology, Dalhousie University, Halifax, Nova Scotia, CANADA, 07/2007
- Visiting Professor, Chemokine regulation of cancer metastasis, Invited research seminar, Biology Seminar Series, School of Medicine, Department of Pharmacology and Therapeutics, National University of Ireland - Galway, Galway, IRELAND, 11/2009

National

- Invited Speaker, Modulation of intestinal myoelectric activity in rats infected with the tapeworm *Hymenolepis diminuta*, Research seminar, Laboratory of Mucosal Immunology, University of California, San Diego, School of Medicine, La Jolla, CA, 05/1996
- Invited Speaker, Modulation of intestinal myoelectric activity in rats infected with the tapeworm *Hymenolepis diminuta*, Research seminar, Dartmouth Medical School, Hanover, NH, 06/1996
- Invited Speaker, Role of intestinal epithelium in mucosal inflammation and host defense, Faculty candidate seminar, Division of Infectious Diseases, Tufts University School of Veterinary Medicine, North Grafton, MA, 06/2000
- Invited Speaker, Role of intestinal epithelium in mucosal inflammation and host defense, Faculty candidate seminar, Department of Molecular Microbiology and Immunology, University of Missouri School of Medicine, Columbia, MO, 06/2000
- Invited Speaker, Role of intestinal epithelium in mucosal inflammation and host defense, Faculty candidate seminar, Department of Molecular Microbiology and Immunology, Medical College of Wisconsin, Milwaukee, WI, 07/2000
- Visiting Professor, CXCR4 and SDF1 regulation of epithelial barrier integrity: the best defense is a strong offense, Invited research seminar, Mayo Clinic, Rochester, MN, 04/2005
- Invited Speaker, Chemokine receptor signaling regulates intestinal epithelial cell migration and barrier defense, Research symposium speaker, FASEB 2005 Summer Conference: GI Tract XI, Innovations in GI Research and Therapy, Snowmass, CO, 08/2005
- Visiting Professor, Chemokine regulation of the innate mucosal immune barrier: the best defense is a strong offense, Invited research seminar, Department of Nutritional Sciences, University of Wisconsin,

- Madison, WI, 01/2006
- Visiting Professor, Chemokine regulation of the mucosal innate immune barrier, Invited research seminar, Department of Biological Sciences, Committee on Cell Physiology, University of Chicago, Chicago, IL, 10/2006
- Visiting Professor, Shifting the paradigm: chemokine regulation of tumor metastasis, Invited research seminar, Tumor Cell Biology program, , Robert H. Lurie Comprehensive Cancer Center of Northwestern University, Chicago, IL, 02/2011
- Visiting Professor, Controlling epithelial cell migration in inflammation and cancer, Research Seminar, The Saban Research Institute of Children's Hospital Los Angeles, University of Southern California, Los Angeles, CA, 05/2011
- Visiting Professor, Controlling tumor metastasis with chemokines, Stritch School of Medicine, Loyola University Chicago, Maywood, IL, 10/2012
- Visiting Professor, Exploiting chemokine receptor signaling to regulate cancer metastasis., Purdue University Center for Cancer Research, Lafayette, IN, 10/2015
- Visiting Professor, Biasing chemokine receptor functions in cancer, University of New Mexico Comprehensive Cancer Center, Albuquerque, NM, 03/2017
- Visiting Professor, Biased chemokine receptor signaling & functions in cancer, Pancreatic Cancer Research Institute, Sylvester Comprehensive Cancer Center, Miller School of Medicine, University of Miami, Miami, FL., 03/2019
- Visiting Professor, Investigating the pancreatic cancer tumor microenvironment, Department of Pharmacology, Rogel Cancer Center, University of Michigan Medical School, Ann Arbor, MI., 12/2019

Regional

- Invited Speaker, Intestinal myoelectric activity in rats infected with the tapeworm *Hymenolepis diminuta*, Midwest Motility Meeting, 10/1993
- Invited Speaker, Intestinal myoelectric alterations in tapeworm infected rats, Research update seminar, Gastroenterology Division, Veterans Administration Hospital, University of Wisconsin, Madison, WI, 09/1994
- Invited Speaker, Intestinal myoelectric alterations in *Hymenolepis diminuta* infected rats: Correlation with aerobic bacterial populations, Midwest Motility Meeting, 04/1995
- Invited Speaker, Mucosal mast cells and intestinal morphology of rats chronically infected with the tapeworm *Hymenolepis diminuta*, Midwest Motility Meeting, 10/1995
- Invited Speaker, Intestinal transit and endogenous microflora populations in *Hymenolepis diminuta* infected rats., Midwest Motility Meeting, 04/1996
- Lecturer, Modulation of intestinal myoelectric activity in rats infected with the tapeworm *Hymenolepis diminuta*., Campus wide dissertation defense seminar, Department of Animal Health and Biomedical Sciences, School of Veterinary Medicine, University of Wisconsin, Madison WI, 10/1996
- Invited Speaker, Differential expression of chemokines and chemokine receptors by human intestinal epithelial cells, Gastrointestinal Research Seminar, Department of Medicine, University of Wisconsin, Madison, WI, 10/1998
- Invited Speaker, Signaling through functional chemokine receptors expressed by intestinal epithelial cells, Inflammatory Bowel Disease Research: Junior Faculty Symposium, Northwestern University Medical School, Chicago, IL, 01/2002
- Invited Speaker, Mucosal host defense to *Campylobacter jejuni*., Midwest Microbial Pathogenesis Conference, 10th Annual meeting, University of Iowa, Iowa City, IA, 10/2003
- Visiting Professor, Interruption of colorectal cancer metastasis through regulation of anoikis, Invited Research Seminar, Recent Advances in Biology Lecture Series, Lawrence University, Appleton, WI, 01/2009
- Visiting Professor, Inhibiting tumor metastasis with chemokines: A tale of two graduate students, Invited Research Seminar, Interdisciplinary Program in Biomedical Sciences, Graduate School Recruitment, Ferris State University, Big Rapids, MI, 11/2011
- Visiting Professor, Controlling tumor cell metastasis with chemokines, Invited Research Seminar, La Crosse BioResearch Forum, Center for Cancer and Blood Disorders, Gundersen Lutheran Medical Foundation, La Crosse, WI, 03/2012
- Invited Speaker, New roles for chemotactic cytokines in pancreatic cancer, Midwest Pancreatic Cancer Scientific Research Conference, Chicago, IL, 10/2017
- Invited Speaker, Innate immune activation of anti-tumor T cell responses in pancreatic cancer, 5th Annual

Midwest Tumor Microenvironment Meeting, Notre Dame University, South Bend, IN, 05/2019

Local

- Dwinell, M.B., Mucosal chemokines and chemokine receptors, Research update seminar, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, 10/2001
- Dwinell, M.B., Role of chemokines in mucosal inflammation, Research seminar, Department of Medicine Digestive Disease Center, Medical College of Wisconsin, 01/2002
- Dwinell, M.B., Mucosal chemokines, Visiting Professor Research Conference for Michael Sarr, MD, Department of Surgery, Medical College of Wisconsin, 02/2002
- Dwinell, M.B., Chemokines and chemokine receptors in mucosal host defense, Research update seminar, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, 11/2002
- Dwinell, M.B., Chemokines and chemokine receptors in mucosal host defense, 10th Annual Wylie J. Dodds Research Lecture, Department of Medicine, Division of Gastroenterology, Digestive Diseases Center, Medical College of Wisconsin, 02/2003
- Dwinell, M.B., Chemokines and chemokine receptors in host defense of the human gastrointestinal mucosa, Research seminar, Department of Biochemistry, Medical College of Wisconsin, 03/2003
- Dwinell, M.B., Homeland security: Role for the intestinal epithelium in immune defense, Research update seminar, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, 12/2003
- Dwinell, M.B., CXCR4 in epithelial migration, Research seminar, Cancer Center Signaling and Gene Expression Research Group, Medical College of Wisconsin, 03/2004
- Dwinell, M.B., Chemokine regulation of epithelial barrier immunity: the best defense is a strong offense, Research update seminar, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, 03/2005
- Dwinell, M.B., Mucosal innate immunity: the epithelium strikes back, Research update seminar, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, 02/2006
- Dwinell, M.B., Chemokines at the great epithelial barrier reef, Research update seminar, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, 02/2007
- Dwinell, M.B., Mucosal integrity in the balance: Defining the roles for epithelial SDF1 and CXCR4, Research update seminar, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, 03/2008
- Dwinell, M.B., Couples That Work in Medicine and/or Science – How Do You Make It Work?, Medical Scientist Training Program Annual Retreat, Medical College of Wisconsin, Blue Harbor Resort & Conference Center, Sheboygan, WI, 11/2008
- Dwinell, M.B., Chemokines are key regulators of tumor metastasis, Invited research seminar, Children's Research Institute, Milwaukee, WI, 01/2009
- Dwinell, M.B., Chemokines: Ubiquitous immune regulators of epithelial restitution and tumor metastasis: The yin and yang of chemokine function, Research update seminar, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, 02/2009
- Dwinell, M.B., The yin and yang of chemokine function, Research seminar, Inflammation and Cancer Cell Biology Research Group, the Cancer Center, Medical college of Wisconsin, 08/2009
- Dwinell, M.B., Chemokines in human gastrointestinal disease, Research update seminar, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, 11/2009
- Dwinell, M.B., Roles for chemokines in inflammation and injury, Research seminar, Infectious Disease Research Conference, Department of Medicine, Division of Infectious Disease, Medical College of Wisconsin, 08/2010
- Dwinell, M.B., Chemokines in cancer metastasis, Research seminar, Inflammation and Cancer Cell Biology Research Group, the Cancer Center, Medical College of Wisconsin, 09/2010
- Dwinell, M.B., Shifting the paradigm: Chemokine inhibition of tumor metastasis, Invited research seminar, Committee on Immunology 2nd Annual Retreat, Blood Research Institute of Wisconsin, 10/2010
- Dwinell, M.B., Epithelial chemokines and chemokine receptors in mucosal injury and cancer, Research-in-progress seminar, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, 12/2010
- Dwinell, M.B., Roles for the chemokine CXCL12 in tumor malignancy, Invited research seminar, Children's Research Institute, Milwaukee, WI, 01/2011
- Dwinell, M.B., The Dwinell laboratory: A research update, Research-in-progress seminar, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, 11/2011

Dwinell, M.B., Chemokine regulation of cancer metastasis, Seminar Series, Cancer Cell Biology Research Program, the Medical College of Wisconsin Cancer Center, 12/2011

Dwinell, M.B., Roles for chemokines in malignant cancers, Cancer Cell Biology Research Forum Angiogenesis, Metastasis, & Tumor Microenvironment Research Program, Medical College of Wisconsin Cancer Center, 01/2013

Dwinell, M.B., A research update: Regulating cancer metastasis, Research-in-progress seminar, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, 02/2013

Dwinell, M.B., A research update: Chemokines in cancer, Research-in-progress seminar, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, 11/2013

Dwinell, M.B., Chemokines in cancer: The in-and-out of malignant cell movement, Hematologic Malignancy & Transplantation Program Research Forum, Medical College of Wisconsin Cancer Center, 11/2013

Dwinell, M.B., The pancreatic cancer preclinical research platform, Pancreas Club, Tumor Progression & Metastasis Program and the Department of Surgery, Medical College of Wisconsin Cancer Center, 11/2013

Dwinell, M.B., Introduction to the Signature Disease Team in Pancreatic Cancer Research and Translational Research: Preclinical and Culture Model Systems, Workshop Leader, Medical College of Wisconsin Cancer Center 2nd Annual Scientific Retreat, 06/2014

Dwinell, M.B., Anti-cancer properties of the chemokine CXCL12, 6th Annual Committee on Immunology Conference, Blood Research Institute, 09/2014

Dwinell, M.B., and B.D. Johnson, NIH Supported Team Science Opportunities: Pros & Cons for Young Investigators, Chair's K-Club Rounds, Children's Hospital of Wisconsin, 06/2015

Dwinell, M.B., Cancer Metastasis, Microenvironment and Mucosal Inflammation, Research-in-progress seminar, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, 10/2015

Dwinell, M.B., Chemokine receptor signaling in cancer progression, Cancer Cell Biology Research Forum, Molecular Cancer Therapeutics Research Program, Medical College of Wisconsin Cancer Center, 11/2015

Dwinell, M.B., An introduction to the MCW Drug Discovery and Development Program, Surgical Oncology Research Retreat, Department of Medicine, Division of Hematology / Oncology, Medical College of Wisconsin, 07/2017

Dwinell, M.B., Targeting mitochondrial energy pathways in cancer, Milwaukee Area Mitochondriacs, Department of Biochemistry and the Medical College of Wisconsin Cancer Center and the Department of Surgery, 10/2017

Dwinell, M.B., STING agonist obliterates mouse pancreatic cancer: Is there a potential to re-ignite anti-tumor immunity in patients?, Pancreas Club, Medical College of Wisconsin Cancer Center, 05/2018

Dwinell, M.B., and M.B. Johnson, Strategies to reignite suppressed cancer immunity: STINGing pancreatic cancer, 10th Annual Immunology Conference, Medical College of Wisconsin Center for Immunology, 10/2018

Johnson, B.D., and M.B. Dwinell, Treatment of PDAC with Combined Immunotherapy, Nox Inhibition and Altered Chemokine Signaling, A Healthier Wisconsin Research and Education Program Research Symposium: Changemakers in Science, Medical College of Wisconsin, 11/2018

Dwinell, M.B., Chemokines in cancer: Can we translate into the clinic?, Department of Biophysics, Medical College of Wisconsin, 01/2019

Dwinell, M.B., Reigniting immune suppressed pancreas cancer, Department of Physiology, Medical College of Wisconsin, 03/2019

Dwinell, M.B., Activating anti-pancreatic cancer immunity, Scientific Retreat, Medical College of Wisconsin Cancer Center, 04/2019

PEER REVIEWED WORKSHOPS/PRESENTATIONS:

International

Johanesen, P.A. and M.B. Dwinell, NF-kB regulates epithelial production of dendritic cell, neutrophil and T lymphocyte chemoattractants in invasive *Campylobacter jejuni* infection, 13th International Workshop on *Campylobacter*, *Helicobacter* and Related Organisms, Gold Coast, Queensland, AUSTRALIA, 09/2005

National

- Dwinell, M.B., and J.A. Oaks, Intestinal myoelectric activity in rats treated with the anthelmintic Praziquantel, Selected abstract, American Association of Veterinary Parasitologists 39th Annual Meeting, San Francisco, CA, 05/1994
- Dwinell, M.B., and J.A. Oaks, Removal of tapeworm-associated myoelectric activity in rats infected with *Hymenolepis diminuta* and treated with the anthelmintic Praziquantel, Selected abstract, American Society of Parasitologists, 69th Annual Meeting, Fort Collins, CO, 07/1994
- Dwinell, M.B., P. Bass, D.M. Schaefer, and J.A. Oaks, Interactions between *Hymenolepis diminuta* and the rat host: intestinal transit and endogenous bacterial populations, Selected abstract, American Society of Parasitologists 71st Annual Meeting, Tucson, AZ, 06/1996
- Dwinell, M.B., P. Bass, and J.A. Oaks, In vivo stimulation of *Hymenolepis diminuta*-specific intestinal myoelectric alterations in uninfected rats, Selected abstract, American Society of Parasitologists 72nd Annual Meeting, Nashville, TN, 06/1997
- Dwinell, M.B., L. Eckmann, J.D. Leopard and M.F. Kagnoff, Expression of chemokine receptors by human intestinal epithelial cells, Selected abstract, American Gastroenterological Association, Digestive Disease Week, Orlando, FL, 05/1999
- Dwinell, M.B., N. Lügering, L. Eckmann, and M.F. Kagnoff, Human intestinal epithelial cells secrete interferon-inducible T lymphocyte chemoattractants, Selected abstract, Keystone Symposia on Molecular and Cellular Biology, Innate and Acquired Immunity at Mucosal Surfaces, Taos, MN, 01/2000
- Dwinell, M.B., N. Lügering, L. Eckmann, and M.F. Kagnoff, Interferon (IFN)- γ regulated production of chemoattractants specific for CD4+ memory T cells by human intestinal epithelial cells, Selected abstract, American Gastroenterological Association, Digestive Disease Week, New Orleans, LA., 05/2000
- Heidemann, J., H. Ogawa, P. Rafiee, C. Maaser, W. Domschke, D.G. Binion and M.B. Dwinell, Mucosal angiogenesis regulated by human intestinal microvascular endothelial cell expressed CXCR4 and its cognate ligand stromal cell-derived factor-1, Selected abstract, Experimental Biology, San Diego, CA, 04/2003
- Hwang S. and M.B. Dwinell, CXCL12 stimulation strengthens paracellular tightening and E-cadherin localization during intestinal epithelial restitution, Selected abstract, Digestive Disease Week, American Gastroenterological Association, New Orleans, LA, 05/2010
- Agle, K.A., R.A. Vongsa, and M.B. Dwinell, CXCL12 stimulation leads to dynamic activation of laminin specific integrins promoting enterocyte adhesion and spreading, Selected abstract, Experimental Biology 2011, Washington DC, 04/2011
- Zimmerman, N.P., J.R. Turner and M.B. Dwinell, cAMP abrogates intestinal epithelial restitution through PKA-dependent inhibition of actin remodeling, Selected abstract, Digestive Disease Week, American Gastroenterological Association, Chicago, IL, 05/2011
- Hwang, S., and M.B. Dwinell, Chemokine signaling regulates E-cadherin localization through a ROCK and F-actin dependent mechanism during intestinal epithelial restitution, Selected abstract, Digestive Disease Week, American Gastroenterological Association, San Diego, CA, 05/2012
- Moussouras, N.A., C.T. Veldkamp, B.F. Volkman, and M.B. Dwinell, Structural studies into autoinhibition by CCL21, Selected Abstract, Chemotactic Cytokines Gordon Conference: The Chemokine System at the Crossroads of Physiology and Disease, Sunday River, ME, 05/2018

Local

- Dwinell, M.B., Is aerobic bacterial overgrowth a cause of intestinal myoelectric alterations in *Hymenolepis diminuta* infected rats?, Selected abstract, Annual Midwestern Conference of Parasitologists 47th Annual meeting, Milwaukee, WI, 06/1995
- Roy I, N.P. Zimmerman, A.C. Mackinnon, S. Tsai, D.B. Evans, M.B. Dwinell, CXCL12 is a multifunctional tumor suppressor of pancreatic cancer, Selected abstract, Medical College of Wisconsin Cancer Center Inaugural Annual Scientific Retreat, Milwaukee, WI, 05/2013

COMMITTEE SERVICE:

Medical College of Wisconsin

08/2001 - 07/2003 Member, Curriculum and Programs Committee, Graduate Studies Council, Graduate School of Biomedical Sciences

07/2004 - 06/2007 Member, Curriculum and Evaluation Committee, Faculty Council

10/2004 - 09/2006 Member, Faculty Credentials Committee, Graduate Studies Council, Graduate School of Biomedical Sciences

02/2005 - 06/2008 Dean's Appointee, Library Committee, Faculty Council

07/2005 - 06/2008 Chair, M1-M2 Subcommittee, Curriculum and Evaluation Committee, Faculty Council

12/2005 - 06/2008 Recruitment Committee, Interdisciplinary Program in Biomedical Sciences, Graduate School of Biomedical Sciences

04/2006 - 07/2006 Dean's Appointee, Educational Strategic Taskforce, Medical College of Wisconsin Strategic Planning Committee

08/2006 - 06/2011 Curriculum Committee, Interdisciplinary Program in Biomedical Sciences, Graduate School of Biomedical Sciences

07/2007 - 06/2008 Dean's Appointee, Curriculum and Evaluation Committee, Faculty Council

06/2008 - 06/2011 Chair, Recruitment Committee, Interdisciplinary Program in Biomedical Sciences, Graduate school of Biomedical Sciences

07/2009 - 06/2012 Member, Curriculum and Programs Committee, Graduate School of Biomedical Sciences

08/2009 - 01/2010 Member, Clinical Educator Planning Council, Deans Educational Innovation Advisory Committee

09/2009 - 06/2012 Member, Integration Advisory Council, Dean's Educational Innovation Advisory Committee

01/2010 - Present Member, Clinical & Translational Science Institute Clinical Scientist Mentoring Committee

07/2010 - 12/2011 Member, Discovery Curriculum Design, M1/M2 Workgroup, Medical College of Wisconsin

10/2010 - Present Member, M1/M2 Unit Directors Committee, Medical College of Wisconsin

01/2012 - 06/2018 Directors of Medical Student Education Committee Meeting

03/2013 - 12/2013 Chief's Appointee, Search Committee, MACC Fund Endowed Chair, Department of Pediatrics, Pediatric Hematology/Oncology/Bone Marrow Transplant

07/2015 - 07/2018 Chair, M1/M2 Unit Directors Committee, Medical College of Wisconsin

07/2015 - 08/2018 Member, Academic Standing Committee, Medical College of Wisconsin

MCW TEACHING ACTIVITIES:

Medical Student Education

08/2002 - 03/2013 201-Medical Microbiology, (6 lecture contact hours, 3 small group contact hours)

08/2002 - 12/2009 201-Medical Microbiology General Laboratory, (29 laboratory contact hours)

08/2006 - 06/2013 280-M48476, Graded Elective in Translational Mucosal Immunology and Cancer Research

11/2009 - Present Physician Scientist Pathway, Mentor

06/2010 - 03/2012 Course Director, Immunology & Infection Module, 6-weeks, 72 team-based learning contact hours

04/2011 Gastrointestinal/ Nutrition Module, Small Intestine Block, Pilot Integrated Curriculum (9 TBL contact hours)

12/2011 Hematology / Neoplasia Module, Metastasis & Angiogenesis, Pilot Integrated Curriculum (3 TBL contact hours Cancer Metastasis)

01/2012 - 06/2019 Course Director, Gastrointestinal & Nutritional Pathophysiology, 3.8-weeks – oversee 80 - education hours 4 contact hours

01/2012 Hematology / Neoplasia Module, Immunology Block Director, Pilot Integrated Curriculum Team-based learning: 15 contact hours

01/2012 - 06/2014 Expert Panel Member, M2-Foundations of Pathological Processes Immunology Block Director

07/2012 - 06/2014 Expert Panel Member, M2-Endocrine and Reproductive Unit

07/2012 - 06/2014 Expert Panel Member, M2-Hematology/Lymphatic Unit

08/2012 200-Medical Pathology, (1 lecture contact hour)

02/2013 - Present Infectious Agents and Host Immunity, Immunology Block Director (coordinate 13 lecture hours) -Lecture: 8 contact hours -Small Group Team-Based Learning (TBL): 3 contact hours

04/2014 Instructor, Symptoms, Lecture: 2 contact hours

08/2014 - Present Instructor, Foundations of Pathological Processes, Lecture: 1 contact hour

07/2019 - Present Lecturer, Gastrointestinal & Nutritional Pathophysiology

Graduate Student Education

09/2001 - Present 05-230 - Lecturer, Current Topics in Microbiology & Immunology, Department of Microbiology and Molecular Genetics
11/2001 - 06/2007 05-242 - Lecturer, Techniques of Molecular and Cellular Biology, Department of Microbiology and Molecular Genetics
08/2002 - 05/2009 05-234 - Lecturer, Cellular and Molecular Immunology, Department of Microbiology and Molecular Genetics
08/2003 - 2010 05-236 - Lecturer, Cellular Microbiology, Department of Microbiology and Molecular Genetics
02/2006 - 12/2008 07-254 - Lecturer, Cellular Signal Transduction, Department of Pharmacology
08/2006 - 06/2007 05-242 - Course Director, Techniques of Molecular and Cellular Biology, Department of Microbiology and Molecular Genetics
06/2007 - 2009 16-242 - Co-course Director and Lecturer, Techniques of Molecular and Cellular Biology, Interdisciplinary Biomedical Graduate Program
07/2008 - 06/2017 25-251 - Lecturer, Advanced Molecular Genetics of Cancer, Department of Microbiology and Molecular Genetics
01/2009 16-300 - Lecturer, Biomedical Sciences Seminar, Interdisciplinary Biomedical Graduate Program
06/2009 - Present 25-234 - Course Director and Lecturer, Cellular and Molecular Immunology, Department of Microbiology and Molecular Genetics
08/2009 - Present 05-259 - Course Director and Lecturer, Mucosal Immunity Department of Microbiology and Molecular Genetics
10/2009 - 2011 05-260 - Lecturer, Mucosal Pathogenesis, Department of Microbiology and Molecular Genetics
12/2009 - Present 05-266, Clinical Immunology, Coordinator
12/2009 - Present 05-265, Immunological Tolerance, Coordinator
12/2009 - Present 05-263, Signaling in the Immune System, Coordinator / Lecturer
12/2009 - Present M05-264, Developmental Immunology, Coordinator
12/2009 - Present 05-262, Tumor Immunology, Coordinator
07/2010 - 09/2011 16-242 - Lecturer, Techniques of Molecular and Cellular Biology, Interdisciplinary Biomedical Graduate Program
07/2018 - Present 07-226 - Lecturer, Current Concepts in Cancer Biology, Department of Pharmacology and Toxicology (reverse classroom)

Resident and Fellow Education

08/2003 - 06/2005 Advisory Committee, Pediatric Residency Research, Darryl Fish, MD, Children's Hospital of Wisconsin
10/2012 - 06/2013 Scholarship Oversight Committee, Hematology/Oncology/Bone Marrow Transplant Fellowship, Sam Milanovich, MD, Department of Pediatrics, Children's Hospital of Wisconsin

Continuing Medical Education

04/2006 "Mucosal Immunity", Allergy and Immunology Grand Rounds, Children's Hospital of Wisconsin, Medical College of Wisconsin
05/2011 Pancreas Club 45th Annual Meeting, May 6-7, 2011, Chicago, IL

Community/Lay Public

03/2002 Advisory Board, Digestive Disease Center, Title: "Role of the Intestinal Epithelium in Mucosal Immunity"
09/2004 Advisory Board, Digestive Disease Center, Title: "Regulation of Gut Inflammation"
02/2005 Cub Scout Pack 281, Wauwatosa, WI
06/2006 - 11/2006 Laboratory Tour & Colon Cancer Research Brief, Bobbie Nick Voss Charitable Funds Board, Digestive Disease Center
07/2007 Videograph and Correspondent, Bobbie Nick Voss Charitable Funds, Medical College of Wisconsin Newsletter
09/2007 Videograph, Medical College of Wisconsin Annual Report, Graduate School of Biomedical Sciences

01/2008 Laboratory Tour & Colon Cancer Research Brief, Mr. S.D. Fisher, Digestive Disease Center Advisory Board, Medical College of Wisconsin

04/2008 Videograph Bobbie Nick Voss Charitable Funds 2008 Golf Classic

05/2008 Laboratory Tour & Research Brief, President's Breakfast, Digestive Disease Center

09/2008 Eureka Alert, AAAS, New synthetic form of protein holds promise to stop cancer spread

09/2008 Television Interview, "Lighting Up Cancer", Julie Feldman, WITI, Fox6 News, Milwaukee, WI

11/2008 Laboratory Tour & Research Brief, Mr. D.S. Lex, Digestive Disease Center Advisory, Medical College of Wisconsin

01/2009 President's Breakfast, Colon Cancer Research, Digestive Disease Center and the Cancer Center, Medical College of Wisconsin

05/2009 Videograph Bobbie Nick Voss Charitable Funds, 2009 Golf Classic

09/2009 Laboratory Tour and Research Brief, Mr. Kevin Conroy, President and CEO, Exact Sciences Corp., Madison, WI

10/2009 Article, Pancreatic Tissue Bank, Pilot Biospecimen Tissue Repository, Dr. Dwinell, Dr. Suster, Dr. Evans, Medical College of Wisconsin Annual Report 2009

2009 Science Daily, Natural Protein May Halt Colorectal Cancer's Spread

09/2010 Laboratory Tour and Research Brief, Mrs. Susan Selig, Ms. Ann and Katie Heil, Medical College of Wisconsin Cancer Center

08/2011 Laboratory Videograph, Bob Uecker Introduces the Medical College of Wisconsin's We Care Fund, Milwaukee Brewers Pregame

09/2011 VIP Laboratory Tour, Research Investigations Brief and Demonstration, Mr. J. Hovel, Department of Surgery, Medical College of Wisconsin

09/2011 Laboratory Tour and Research Brief, Mr. Brian Wroblewski, Invitee, We Care Fund Board of Trustees, Department of Surgery, Medical College of Wisconsin

11/2011 We Care Fund, Research Update, Department of Surgery, Medical College of Wisconsin

06/2013 Presentation, Cancer Research at MCW, Honoring the Lorax, The Triumph Fund, Milwaukee, WI

06/2014 Preventing Cancer Metastasis, MCW YouTube Channel
(<https://www.youtube.com/watch?v=vuH2hGQFSD4>)

07/2014 Milwaukee Journal Sentinel, Business Section (<http://www.jsonline.com/business/protein-foundry-first-start-up-in-medical-college-of-wisconsins-incubator-program-b99316416z1-268726481.html>)

07/2014 WTMJ Wisconsin Weekend Morning News "For Your Health" with Steve Daniels. Recorded On – Air discussion: Starving pancreas Cancer Cells of Energy as a New Therapy (<http://www.jrn.com/wtmj/shows/wisconsins-weekend-morning-news/Dr-Michael-Dwinell-267847011.html>)

08/2014 Laboratory Tour, Drive Fore a Cure "Cancer Researcher for a Day", David Castaneda (Market Development Consulting Group, Inc), Nicolas Castaneda, Raymond Juranitch, Trish Juranitch

04/2015 VIP Laboratory Tour, Research Investigations Brief and Demonstration, Mr. John Couvillon, Department of Surgery, Pancreas Cancer Research Program, Medical College of Wisconsin

05/2015 Biology of Breast Cancer, Wisconsin Breast Cancer Research and Advocacy Boot Camp, A project of the Wisconsin Breast Cancer Symposium: Innovation and Action to End Breast Cancer, CTSI of Southeastern Wisconsin, Medical College of Wisconsin

07/2015 Milwaukeean of the Week, Milwaukee Journal Sentinel, Business Blogs On Ramp (<http://www.jsonline.com/blogs/business/milwaukeean-of-the-week-michael-dwinell-582884731535-315523541.html>)

04/2016 Cancer Biology: The World within a Cancer Cell. Interactive lecture as part of the Conversations with Scientists: Cancer: Past, Present, and Future lecture series, Advancing a Healthier Wisconsin and the Medical College of Wisconsin Cancer Center

04/2016 Protein Stops Spread of Pancreatic Cancer, Offers Hope for Treatment for 20 Types of Cancer, (<http://www.froedtert.com/blogs/possible/chemokine-protein>) Froedtert & The Medical College of Wisconsin

10/2018 Introducing your Immune System. Interactive lecture part of the Conversations with Scientists: Immunology: The Best Offense is a Good Defense lecture series, Advancing a Healthier Wisconsin and the Medical College of Wisconsin Center for Immunology

EXTRAMURAL TEACHING:

Graduate Student Education

1994 University of Wisconsin - Madison, 934-501, Teaching Assistant: Veterinary Histology, School of

- Veterinary Medicine, University of Wisconsin, Madison, WI.
 1995 University of Wisconsin - Madison, 703-514, Laboratory Assistant: Veterinary Parasitology Laboratory, School of Veterinary Medicine, University of Wisconsin, Madison, WI.
 1995 - 1996 University of Wisconsin - Madison, 970-351, Laboratory Assistant: Parasitology Laboratory, Department of Zoology, University of Wisconsin, Madison, WI.
 03/1996 University of Wisconsin - Madison, 934-506, Lecturer: Veterinary Physiology-Gastrointestinal Physiology, School of Veterinary Medicine, University of Wisconsin, Madison, WI.
 01/2006 University of Wisconsin - Madison, NS-881, Guest Lecturer, The Immune System in the Gastrointestinal Tract. Interdepartmental Graduate Program in Nutritional Sciences, University of Wisconsin, Madison, WI.

Community/Lay Public

- 04/1998 - 04/2001 University of California, San Diego, BISP-199, Instructor, Ms. Seung-eun Lee, Biology Special Studies: Independent Study, Department of Biology, University of California, San Diego, La Jolla, CA. Graduate: Master's of Public Health, Johns Hopkins Bloomberg School of Public Health, Baltimore MD (12/2006). Current: Seung-eun Lee, MPH, U.S. Army Center for Health Promotion and Preventive Medicine, Silver Spring MD.

MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:

Medical Students

- 02/2006 - 12/2008 Amanda N. Cooper, M.D., Medical College of Wisconsin, Honors Thesis, Medical Student Summer Research Program, National Cancer Institute Fellowship. 2008-2013 Residency Dermatology University of Illinois-Chicago, Chicago, IL. Current: Private Practice, Dermatology, Germantown, WI.
 09/2006 - 10/2006 Eric A. Luedke, M.D., Medical College of Wisconsin, M4-Graded Elective in Microbiology / Mucosal Immunology Research. 2007-2014, Residency General Surgery, The Ohio State University School of Medicine, Columbus, OH. 2014-2017, Clinical Instructor, General Surgery, Stanford School of Medicine, Palo Alto, CA. Current: General Surgery, Sharp Memorial Hospital, Stanford Health Care-Stanford Hospital, San Diego, CA.
 01/2011 - 09/2011 Yana Thaker, M.D., Medical College of Wisconsin, Alpha Omega Alpha Carolyn L. Kuckein Student Research Fellow. 2014-2019 Residency Gastroenterology, University of Washington. Current: General Internal Medicine, Gastroenterology, University of Washington, Seattle, WA.
 01/2012 - 04/2015 Joanne P. Boisvert (Hayes), M.D., Medical College of Wisconsin, Physician Scientist Pathway and Medical Student Summer Research Program, Honor's in Research, National Heart, Lung & Blood Institutes Fellowship. 2016-2019 Residency Family Medicine, Washington State University. Current: Family Medicine Practice, Madras, OR.
 01/2013 - 01/2016 Egal I. Gorse, M.D., Medical College of Wisconsin, Physician Scientist Pathway and Medical Student Summer Research Program, Honor's in Research, NHLBI Summer Research Program to Increase Diversity in Health-Related Research Fellow. 2016-2018 Residency Internal Medicine – Hematology / Oncology, Department of Medicine, Johns Hopkins University School of Medicine. Current: 2018- Fellowship Hematology and Medical Oncology, Emory University School of Medicine 2020 Recipient Nell W. and William Simpson Elkin Fellowship.

Graduate Students

Committees

- 04/2003 - 08/2007 Monica Mann, Medical College of Wisconsin, PhD Awarded. Interdisciplinary Biomedical Graduate Program Department of Microbiology & Molecular Genetics and the Blood Research Institute of Wisconsin. Mentor, Bonnie Dittel, PhD
 06/2003 - 12/2006 Chris Veldkamp, Medical College of Wisconsin, PhD Awarded. Interdisciplinary Biomedical Graduate Program Department of Biochemistry. Mentor, Brian Volkman, PhD Current: Assistant Professor, University of Wisconsin-Whitewater.
 12/2004 - 07/2009 M. Eric Kohler, Medical College of Wisconsin, PhD Awarded - Medical Student Training Program, Department of Microbiology & Molecular Genetics and Department of Pediatrics. Mentor, Rimas J. Orentas, PhD
 12/2004 - 03/2009 Lance Relland, Medical College of Wisconsin, PhD Awarded. Medical Student Training Program, Department of Microbiology & Molecular Genetics and Department of Pediatrics.

Mentor, Calvin A. Williams, MD, PhD

06/2006 - 10/2008 Dharini Van der Hoeven, Medical College of Wisconsin, PhD Awarded. Interdisciplinary Biomedical Graduate Program Department of Pharmacology. Mentor, John A. Auchampach, PhD

08/2006 - 07/2009 Chrystalla Demetriadou, Medical College of Wisconsin, MS Awarded. Interdisciplinary Biomedical Graduate Program Department of Microbiology & Molecular Genetics. Mentor, Thomas C. Zahrt, PhD

08/2006 - 08/2009 Rachel Becker, Medical College of Wisconsin, Interdisciplinary Biomedical Graduate Program Department of Microbiology & Molecular Genetics. Mentor, Dara Frank, PhD

10/2006 - 05/2010 James Schuman, Medical College of Wisconsin, PhD Awarded. Interdisciplinary Biomedical Graduate Program Department of Microbiology & Molecular Genetics and the Blood Research Institute of Wisconsin. Mentor, Demin Wang, PhD

05/2007 - 03/2009 Kathryn Marshall, Medical College of Wisconsin, PhD Awarded. Interdisciplinary Biomedical Graduate Program, Department of Cell Biology, Neurobiology & Anatomy. Mentor, Allan Mayer, MD, PhD

03/2008 - 10/2008 Alec (Oleg) Vishnevsky, Medical College of Wisconsin, Medical Student Training Program, Department of Microbiology & Molecular Genetics and Department of Pediatrics. Mentor, William Grossmann, MD, PhD

07/2008 - 04/2011 Alicia Castonguay, Medical College of Wisconsin, PhD Awarded. Interdisciplinary Biomedical Graduate Program Department of Biochemistry. Mentor, Nancy Dahms, PhD

10/2008 - 03/2012 Katherine Schmalzer, Medical College of Wisconsin, PhD Awarded. Interdisciplinary Biomedical Graduate Program Department of Microbiology & Molecular Genetics. Mentor, Dara Frank, PhD

01/2009 - 12/2012 Erica Treslley-Schmitt, Medical College of Wisconsin, PhD Awarded. Medical Student Training Program, Department of Microbiology & Molecular Genetics and Department of Pediatrics. Mentor, Calvin A. Williams, MD, PhD

01/2009 - 01/2012 Sreemanti Basu, Medical College of Wisconsin, PhD Awarded. Interdisciplinary Biomedical Graduate Program Department of Microbiology & Molecular Genetics and the Blood Research Institute of Wisconsin. Mentor, Bonnie Dittel, PhD

02/2009 - 08/2012 Tyce Kearn, Medical College of Wisconsin, PhD Awarded. Medical Student Training Program, Department of Microbiology & Molecular Genetics and Department of Pediatrics. Mentor, Bryon Johnson, PhD

02/2009 - 04/2012 Ty Molitor, Medical College of Wisconsin, PhD Awarded. Interdisciplinary Biomedical Graduate Program, Department of Microbiology & Molecular Genetics. Mentor, Paula Traktman, PhD

04/2009 - 11/2010 Krista E. Asp, Medical College of Wisconsin, Medical Student Training Program, Department of Microbiology & Molecular Genetics. Mentor, Thomas Zahrt, PhD

05/2009 - 05/2012 Adam Gastonguay, Medical College of Wisconsin, PhD Awarded. Interdisciplinary Biomedical Graduate Program Department of Pharmacology & Toxicology. Mentor, Carol Williams, PhD

08/2009 - 10/2012 Amy J. Beres, Medical College of Wisconsin, – PhD Awarded. Interdisciplinary Biomedical Graduate Program Department of Microbiology & Molecular Genetics and Department of Medicine. Mentor, William Drobyski, MD

10/2009 - 11/2011 Joshua J. Ziarek, Medical College of Wisconsin, PhD Awarded. Interdisciplinary Biomedical Graduate Program Department of Biochemistry. Mentor: Brian Volkman, PhD. Current: Postdoctoral Research, Harvard Univ.

06/2011 - 05/2013 Andrew D. Hauser, Medical College of Wisconsin, PhD Awarded. Interdisciplinary Biomedical Graduate Program Department of Pharmacology & Toxicology. Mentor: Carol Williams, PhD. Current: Postdoctoral Associate, New York University, Mentor: Dafna Bar-Sagi, MD

09/2011 - 03/2014 Ya Zhuo, Medical College of Wisconsin, PhD Awarded. Interdisciplinary Biomedical Graduate Program, Department of Biophysics. Mentor: Candice Klug, PhD.

01/2012 - 01/2014 Nathan J. Schuld, Medical College of Wisconsin, – PhD Awarded. Interdisciplinary Biomedical Graduate Program, Department of Pharmacology & Toxicology. Mentor: Carol Williams, PhD. Current: Postdoctoral Fellow, University of Minnesota. Mentor: Deborah Ferrington, PhD

05/2012 - 05/2016 Anthony E. Getschman, Medical College of Wisconsin, PhD Awarded. Interdisciplinary Biomedical Graduate Program, Department of Biochemistry. Mentor: Brian Volkman, PhD

- 08/2012 - 01/2017 Amy Rymaszewski, Medical College of Wisconsin, PhD Awarded. Interdisciplinary Biomedical Graduate Program, Department of Pharmacology & Toxicology. Mentor: Haris Vikis, PhD / Carol L. Williams, PhD
- 02/2013 - 07/2017 Matthew Forsberg, Medical College of Wisconsin, – PhD Awarded. Interdisciplinary Biomedical Graduate Program, Department of Department of Microbiology & Molecular Genetics. Mentor: Yi-Guang Chen, PhD
- 02/2013 - 06/2017 Jonathan Jeschke, Medical College of Wisconsin, PhD Awarded. Medical Student Training Program, Department of Microbiology & Molecular Genetics and Department of Pediatrics. Mentor, Calvin A. Williams, MD, PhD
- 02/2013 - 06/2015 Aye Mon, Medical College of Wisconsin, Interdisciplinary Biomedical Graduate Program, Department of Department of Microbiology & Molecular Genetics. Mentor: Paula Traktman, PhD. student moved with her advisor to Medical University of South Carolina
- 12/2014 - 2019 Kathleen Dixon, Medical College of Wisconsin, - PhD Awarded. Interdisciplinary Biomedical Graduate Program, Department of Department of Microbiology & Immunology. Mentor: Subramaniam Malarkannan, PhD
- 03/2015 - Present Vanessa (Cheng-Yin) Yuan, Medical College of Wisconsin, Interdisciplinary Biomedical Graduate Program, Department of Department of Microbiology & Molecular Genetics. Mentor: William Drobyski, MD
- 04/2015 - 05/2018 Sarah Riutta, Medical College of Wisconsin, PhD Awarded. Interdisciplinary Biomedical Graduate Program, Department of Biochemistry. Mentor, Brian Volkman, PhD
- 04/2015 - 04/2019 Andrew Kleist, Medical College of Wisconsin, PhD Awarded. Medical Student Training Program, Ruth L. Kirschstein National Research Service Fellow (CA196040), National Cancer Institute, NIH, Department of Biochemistry. Mentor, Brian Volkman, PhD
- 04/2015 - 05/2018 Monica Thomas, Medical College of Wisconsin, PhD Awarded. Medical Student Training Program, Ruth L. Kirschstein National Research Service Fellow (F30 HL134253), National Heart, Lung, and Blood Institute, NIH, Department of Biochemistry. Mentor, Brian Volkman, PhD.
- 11/2017 - 05/2020 Peter Volberding, Medical College of Wisconsin, PhD Awarded. Interdisciplinary Biomedical Graduate Program, Department of Department of Microbiology & Immunology. Mentor: Weiquo Cui, PhD
- 12/2018 - Present Paytsar Topchyan, Medical College of Wisconsin, Medical Student Training Program, Department of Microbiology & Immunology. Mentor: Weiquo Cui, PhD
- 12/2018 - 05/2020 Ammar Alsheikh, Medical College of Wisconsin, PhD Awarded. Physiology Graduate Program, Department of Physiology. Mentor: David Mattson, PhD
- 12/2019 - Present Kyler Crawford, Medical College of Wisconsin, Medical Student Training Program, Department of Biochemistry. Mentor: Brian F. Volkman, PhD
- 08/2020 - Present Joseph Crecelius, Medical College of Wisconsin, Interdisciplinary Biomedical Graduate Program, Department of Biochemistry. Mentor: Adriano Marchese, PhD
- 08/2020 - Present Jian Shen, Medical College of Wisconsin, Interdisciplinary Biomedical Graduate Program, Department of Microbiology & Immunology. Mentor, Weiquo Cui, PhD.

PhD Students Advised

- 06/2003 - 10/2007 Michael K. Wendt, Ph.D., Interdisciplinary Biomedical Graduate Program, Department of Microbiology & Molecular Genetics, Medical College of Wisconsin, Recipient, Doctor of Philosophy Outstanding Dissertation Award. Postdoc: Research Scientist, American Cancer Society Postdoctoral Fellow, NCI Temin K99/R00 Award recipient, Case Western Reserve University, Cleveland, OH. Mentor: William Schiemann, Ph.D. Current (01/2014-): Associate Professor, Purdue University, Lafayette, IN
- 06/2004 - 12/2008 Rebecca A. Vongsa (nee Moyer), Ph.D., Interdisciplinary Biomedical Graduate Program, Department of Microbiology & Molecular Genetics, Medical College of Wisconsin, Current (01/2009-): Scientist-III, Kimberly-Clark Corp., Skin Health and Infection Control Health Care Division, Appleton, WI.
- 06/2006 - 05/2011 Luke J. Drury, Ph.D., Interdisciplinary Biomedical Graduate Program, Department of Microbiology & Molecular Genetics, Medical College of Wisconsin, Postdoc: NHLBI Postdoctoral Fellow, University of Iowa Holden Comprehensive Cancer Center Mentor: Adam Dupuy, Ph.D. Current (11/2013 -): Human Molecular Geneticist, Prevention Genetics, Marshfield Clinic, Marshfield, WI.
- 06/2007 - 05/2012 Soonyean Hwang, Ph.D., Interdisciplinary Biomedical Graduate Program, Department of Microbiology & Molecular Genetics, Medical College of Wisconsin, Current:

- Postdoctoral Fellow, Dana-Farber Cancer Institute, Harvard Cancer Center, Mentor: Martin E. Hemler, PhD.
- 06/2008 - 04/2012 Kimberle A. Agle, Ph.D., Interdisciplinary Biomedical Graduate Program, Department of Microbiology & Molecular Genetics, Medical College of Wisconsin, Current: Scientist-II, Immucor, Inc, Waukesha, WI.
- 01/2009 - 10/2009 Hong Guan, Ph.D., Interdisciplinary Biomedical Graduate Program, Department of Microbiology & Molecular Genetics, Medical College of Wisconsin, Current: Doctoral Candidate, Department of Chemistry and Biochemistry, University of South Carolina.
- 10/2009 - 06/2014 Ishan Roy, M.D., Ph.D., Medical Scientist Training Program, Department of Microbiology & Molecular Genetics, Medical College of Wisconsin, Current (2016): Clinical Instructor & Chief Resident Physician; Department of Physical Medicine & Rehabilitation, Northwestern University/Shirley Ryan Ability Lab.
- 01/2015 - 06/2016 Jonathan D. Van Wickle, Medical Scientist Training Program, Department of Microbiology & Immunology, Medical College of Wisconsin, Current: Resident, Radiation Oncology, University of Iowa.
- 04/2015 - 06/2020 Natasha A. Moussouras, Ph.D., Medical Scientist Training Program, Ruth L. Kirschstein National Research Service Fellow (F30 CA210587), National Cancer Institute, NIH, Department of Microbiology & Immunology, Medical College of Wisconsin
- 02/2016 - 06/2020 Emily Vonderhaar, Ph.D., Medical Scientist Training Program, CTSA TL1 Mentored Clinical Research Training Fellow (TR001437), National Center for Advancing Translational Sciences, NIH, Department of Microbiology & Immunology, Medical College of Wisconsin
- 05/2018 - Present Mahmoud Abu Eid, Interdisciplinary Biomedical Graduate Program, Department of Microbiology & Immunology, Medical College of Wisconsin

Postdoctoral Researchers

- 09/2001 - 08/2002 Jan Heidemann, MD, Medical College of Wisconsin, Postdoctoral Scientist, Co-mentor with David G. Binion MD. Current: Assoc. Dr. med, Director, Department of Gastroenterology, University Hospital Bielefeld, GERMANY.
- 05/2002 - 02/2007 Priscilla A. Johanesen, PhD, Medical College of Wisconsin, Postdoctoral Fellow, Mucosal Immunology, Department of Microbiology & Molecular Genetics Current: Associate Professor (Tenured), Deputy Head of Department (Education), Department of Microbiology, Monash University, Melbourne, AUSTRALIA.
- 05/2002 - 07/2004 Jennifer M. Boardman (nee Smith), PhD, Medical College of Wisconsin, , Postdoctoral Fellow, Mucosal Immunology. Current: Assistant Dean for Academic Affairs for the School of Graduate Studies, Associate Professor, Microbiology and Immunology, Department of Basic Sciences, Geisinger Commonwealth School of Medicine, Scranton, PA.
- 07/2006 - 06/2007 W. Martin Floer, MD, Medical College of Wisconsin, Postdoctoral Scientist, Co-mentor with David G. Binion MD. Current: Department of Gastroenterology, HELIOS Albert-Schweitzer-Hospital Northeim, GERMANY.
- 08/2006 - 11/2010 Noah P. Zimmerman, PhD, Medical College of Wisconsin, NIDDK Postdoctoral Fellow, Mucosal Immunology. 02/2012-12/2012. Instructor, Departments of Medicine and Microbiology and Molecular Genetics, the Medical College of Wisconsin Cancer Center. Current: Research Manager, Arm and Hammer, Waukesha, WI

Residents

- 06/2014 - 06/2015 Sridevi Ramalingam, MD, Research Mentor, Medical College of Wisconsin, Froedtert Lutheran Hospital, Department of Medicine, Division of Hematology & Oncology
- 02/2017 - 06/2018 Andres Yarur, MD, Research Mentor, Medical College of Wisconsin, Froedtert Lutheran Hospital, Department of Medicine, Division of Gastroenterology & Hepatology
- 07/2019 - Present Michael Halyko, MD, Research Mentors, Medical College of Wisconsin, Children's Hospital of Wisconsin, Department of Pediatrics, Division of Hematology & Oncology,

Faculty

- 12/2011 - 07/2014 Haris Vikis, PhD, Assistant Professor, Medical College of Wisconsin, Department of Pharmacology, Medical College of Wisconsin Cancer Center
- 02/2012 - 07/2014 Jay Tichelaar, PhD, Assistant Professor, Medical College of Wisconsin, Department of Pharmacology, Medical College of Wisconsin Cancer Center

08/2013 - 06/2017 Laura Kresty, PhD, Associate Professor, Medical College of Wisconsin, Department of Medicine, Division of Hematology & Oncology,
01/2014 - Present Anna Huppler, MD, Assistant Professor, Medical College of Wisconsin, Department of Pediatrics, Division of Infectious Disease
08/2014 - Present Scott R Welak, MD, Assistant Professor, Medical College of Wisconsin, Department of Pediatrics, Division of Neonatology
08/2014 - Present Michael James, PhD, Assistant Professor, Medical College of Wisconsin, Department of Surgery, Division of Surgical Oncology
08/2018 - Present Robert Lochhead, PhD, Medical College of Wisconsin, Assistant Professor, Department of Microbiology & Immunology,
01/2019 - Present Jacek Ziekonka, PhD, Assistant Professor, Medical College of Wisconsin, Department of Biophysics
09/2020 - Present Brian Craig, MD, Medical College of Wisconsin, Assistant Professor, Department of Surgery, Division of Pediatric Surgery, Children's Wisconsin, Medical College of Wisconsin

Clinical Staff

12/2014 - 06/2015 Christy Barrios, PhD, Research Scientist-I, Medical College of Wisconsin, Department of Microbiology & Molecular Genetics,
07/2015 - 02/2019 Kathleen Boyle, PhD, Research Scientist-II, Medical College of Wisconsin, Department of Microbiology & Immunology. Current: Assistant Professor, Mt. Mary University, Milwaukee, WI

EXTRAMURAL STUDENTS, FACULTY, RESIDENTS, AND CLINICAL/RESEARCH FELLOWS

MENTORED:

High School Students

06/2009 - 08/2009 N Ruth Marks, Supervisor, Student Hourly, Summer Undergraduate Trainee, American Recovery and Reinvestment Act of 2009 Undergraduate Fellow Brookfield Academy High School, Class of 2010. Current: Medical Student, Stanford University School of Medicine.
01/2013 - 04/2013 Olivia Gorman, Research Mentor, Nicolet High School Science and Engineering Fair, Class of 2016
01/2013 - 04/2013 Katya Opryshchenko, Research Mentor, Nicolet High School Science and Engineering Fair, Class of 2016
06/2016 - 06/2017 Hajira Fuad, Research Mentor, University School of Milwaukee, Class of 2017
12/2017 - 02/2019 Vaishnavi Gundamrai, Research Mentor, Brookfield Academy, Students Understanding Principles of Research Education through Medicine, Engineering, and Science (SUPREMES) program and CTSI 500 Stars Internship Program
06/2018 - 08/2019 Jada Mitchell, Research Mentor, CTSI 500 Stars Internship Program, Current: Ohio University

Undergraduate Students

07/1999 - 06/2000 Arash Izadpanah, Supervisor, Independent Study Project Committee Member, University of California, San Diego, School of Medicine, Howard Hughes Medical Institute Medical Student Fellow. Current: Dermatologist, Scripps's Clinic Carmel Valley, San Diego.
<http://www.scripps.org/Doctors.aspx?ID=9130>
04/2000 - 04/2001 Lisa Guerrettaz, Supervisor/Mentor, Work-Study Undergraduate Student, University of California, San Diego School of Medicine PhD awarded 2009, University of Colorado. Postdoctoral Fellow, Genomics Institute, Novartis Research Foundation, San Diego, CA. Current: Scientist II, Fate Therapeutics, Inc., San Diego, CA.
05/2001 - 08/2001 Michael K. Wendt, Preceptor, Summer Program for Undergraduate Research, St. Norbert College
07/2001 - 09/2001 Scott Teper, Supervisor, Student Hourly, University of Chicago. Graduate: Master's of Public Health (2004), Epidemiology and Public Health, Yale University, New Haven, CT. Current: Senior Associate, Homeland Security and Emergency Management Practice ICF International, Washington DC
05/2002 - 08/2002 Eric A Luedke, Preceptor, Summer Program for Undergraduate Research, Marquette University. Graduate: MD, Medical College of Wisconsin (2007) Surgical Resident, Department of Surgery, The Ohio State University College of Medicine, Columbus, OH. Current: General Surgeon,

- Sharp HealthCare, Stanford Hospital & Clinics, San Diego, CA.
- 05/2003 - 08/2003 Jeffrey M Gehl, Preceptor, Summer Program for Undergraduate Research, University of Wisconsin. Graduate: MD, Rush Medical College (2009) Current: Staff Physician, Internal Medicine & Pediatrics, Medical College of Wisconsin, Children's Hospital of Wisconsin, Milwaukee, WI.
- 05/2006 - 08/2006 Kristen Aicher, Preceptor, Summer Program for Undergraduate Research, Carroll College.
- 05/2009 - 08/2009 Cayla Thompson (nee Lillge), Preceptor, Summer Program for Undergraduate Research and Fellow of the American Recovery and Reinvestment Act of 2009, University of Wisconsin, Platteville. PhD (2017) Medical College of Wisconsin, Milwaukee, WI. Current (2017-): Scientist, Cellular Dynamics International, Madison, WI.

Graduate Students

Committees

- 05/2006 - 05/2007 Cynthia Opansky, MS Awarded, Thesis Committee, University of Wisconsin-Milwaukee, Clinical Laboratory Science Program Mentor: Robert S. Burlage, PhD Current: Research Scientist, Blood Research Institute, Milwaukee, WI.
- 04/2007 - 07/2007 Erica Lowthers, External Examiner, PhD Awarded, Department of Pharmacology, Faculty of Graduate Studies, Dalhousie University, CANADA. Mentor: Jonathan Blay, PhD
- 09/2009 - 02/2010 Angela O'Gorman, External Examiner, PhD Awarded, Department of Pharmacology & Therapeutics, National University of Ireland, Galway, IRELAND. Mentor: Laurence J. Egan, MD

PROGRAMMATIC DEVELOPMENTS:

Educational Programs

Student

- 09/13/2007 - 09/01/2009 M1-2 Curriculum Integration Action Plan, Learning Resource Subcommittee, Medical College of Wisconsin
- 02/19/2008 - 02/20/2009 M1 NBME Customized Examination, Learning Resource Subcommittee, Medical College of Wisconsin
- 01/01/2015 - 12/31/2015 Self-Directed Integrated Medical Immunology & Inflammation Curriculum

Faculty

- 05/01/2005 - 07/31/2007 A Strategic Planning Retreat for Identifying and Addressing the Hidden Professionalism Curriculum, Learning Resource Subcommittee, Medical College of Wisconsin
- 03/01/2006 - 11/01/2009 Integrating CEC Strategic Themes Across the Curriculum: Phase-1, Learning Resource Subcommittee, Medical College of Wisconsin

COMMUNITY SERVICE ACTIVITIES:

- 08/2003 Speaker, Research Alliance Reception, Crohn's and Colitis Foundation of America Wisconsin Chapter, David Barnett Gallery, Milwaukee, WI
- 02/2004 Speaker, February Family Conference, Laughter and Medicine 2004, Crohn's and Colitis Foundation of America Wisconsin Chapter, Wisconsin Dells, WI
- 09/2004 Speaker, Research Alliance Reception, Crohn's and Colitis Foundation of America Wisconsin Chapter, Allan Bradley Clocktower, Milwaukee, WI
- 07/2005 Speaker, American Cancer Society, Relay for Life 2005, Fort Atkinson, WI
- 09/2005 Discussant, Research Alliance Reception, Crohn's and Colitis Foundation of America Wisconsin Chapter, Allan Bradley Clocktower, Milwaukee, WI
- 09/2006 Discussant, Research Alliance Reception, Crohn's and Colitis Foundation of America Wisconsin Chapter, Allan Bradley Clocktower, Milwaukee, WI
- 07/2007 Invited Guest, Bobbie Nick Voss Golf Classic, North Hills Country Club, Menomonee Falls, WI
- 06/2008 Invited Guest, Bobbie Nick Voss Golf Classic, North Hills Country Club, Menomonee Falls, WI
- 06/2011 Invited Guest, 2011 Wisconsin Breast Cancer Showhouse Preview, Milwaukee, WI
- 06/2011 Invited Guest, Bobbie Nick Voss Golf Classic, North Hills Country Club, Menomonee Falls, WI

07/2011 Invited Guest, Annual Emmie S. Mikulay Tee Up for a Cure, the Wisconsin Breast Cancer Showhouse, Milwaukee, WI
 10/2011 Guest, Wisconsin Breast Cancer Showhouse annual Recognition Dinner, River Hills, WI
 01/2012 Guest Speaker, Delafield Chamber of Commerce and the Wisconsin Breast Cancer Showhouse Pink Tie Gala, Delafield, WI
 06/2012 Invited Guest, Annual Emmie S. Mikulay Tee Up for a Cure, the Wisconsin Breast Cancer Showhouse, Milwaukee, WI
 07/2012 Invited Guest, MCW Alumni Golf Outing
 05/2013 Invited Guest, 2011 Wisconsin Breast Cancer Showhouse Preview, Milwaukee, WI
 06/2013 Triumph Funding, "Metastasis — Hope Peeks Out From Behind Its Dark Shadows", (<http://thetriumphfund.wordpress.com/musings-5/>)
 07/2013 Invited Guest, Annual Emmie S. Mikulay Tee Up for a Cure, the Wisconsin Breast Cancer Showhouse, Milwaukee, WI
 07/2014 Invited Guest, Annual Emmie S. Mikulay Tee Up for a Cure, the Wisconsin Breast Cancer Showhouse, Milwaukee, WI
 10/2014 Turning the Table, The Medical College of Wisconsin Cancer Center is Committed to Curing Pancreatic Cancer. Article By Deborah R. Huso, pg 140, October 2014 usairwaysmag.com
 07/2018 "Let's Crush Cancer – Bella's Story" MCW Cancer Center signature fundraising campaign.

ENTREPRENEURSHIP:

04/2014 Co-Founder, Vice President, and Managing Member, Protein Foundry LLC, Milwaukee, WI
 03/2020 Co-Founder, Managing Member, Xlock Biosciences, LLC, Milwaukee, WI

PATENTS AND INTELLECTUAL PROPERTY:

06/2005 MCWRF #1371 "The Chemokine Stromal Cell-Derived Factor-1 (SDF1)/CXCL12 in therapeutic treatment of carcinoma" U.S. Patent 8,404,640 "Method of Diagnosing and Treating Colon Cancer – Dwinell et al" Issued: March 26, 2013
 08/2005 MCWRF#1377 "The chemokine receptor CXCR4 and its chemokine stromal cell-derived factor-1 (SDF1)/CXCL12 in therapeutic repair of the mucosal epithelium" Disclosed
 11/2006 MCWRF #1524 "Establishment and maintenance of a novel and unique intestinal epithelial cell line expressing human Paneth cell antimicrobial peptide human alpha defensins" Disclosed.
 11/2006 MCWRF #1506 "Chemokine Receptor CXCR4-Knockout Mouse" Disclosed
 04/2008 MCWRF #1574 "Floxed CXCL12 Mice" Disclosed.
 09/2015 MCWRF #C1890 "Chemokine Variants as Immune Stimulants" Disclosed. Patent Application Pending

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Dwinell, M.B., P. Bass, and J.A. Oaks. 1994. Intestinal myoelectric alterations in rats chronically infected with the tapeworm *Hymenolepis diminuta*. *American Journal of Physiology* 267 (Gastrointestinal & Liver Physiology 30): G851-G858. PMID: 7977747
2. Dwinell, M.B., P. Bass, and J.A. Oaks. 1995. Praziquantel treatment normalizes intestinal myoelectric alterations associated with *Hymenolepis diminuta* infected rats. *Journal of Parasitology*, 81(6): 979-984. PMID: 8544075
3. Rowell, D.L., L. Eckmann, M.B. Dwinell, S.P. Carpenter, J.L. Raucy, S-K. Yang, and M.F. Kagnoff. 1997. Human hepatocytes express a regulated array of proinflammatory cytokines following agonist stimulation or bacterial invasion. *American Journal of Physiology* 273 (Gastrointestinal & Liver Physiology 36): G322-G332. PMID: 9277410
4. Dwinell, M.B., P. Bass, D.M. Schaefer, and J.A. Oaks. 1997. Tapeworm infection decreases intestinal transit and enteric aerobic bacterial populations. *American Journal of Physiology* 273 (Gastrointestinal & Liver Physiology 36): G480-G485. PMID: 9277428
5. Dwinell, M.B., R.M. Wise, P. Bass, and J.A. Oaks. 1998. *Hymenolepis diminuta*: Mucosal mastocytosis and intestinal smooth muscle hypertrophy occurs in tapeworm-infected rats. (Cover Art) *Experimental Parasitology*, 89: 92-102. PMID: 9603494
6. Dwinell, M.B., P. Bass, and J.A. Oaks. 1998. *Hymenolepis diminuta*-fractions but not previous tapeworm

- infection stimulate intestinal myoelectric alterations in vivo in the rat. *Journal of Parasitology*, 84(4): 673-670. PMID: 9714192
7. Dwinell, M.B., L. Eckmann, J.D. Leopard, N.M. Varki, and M.F. Kagnoff. 1999. Chemokine receptor expression on human intestinal epithelial cells. (Cover Commentary) *Gastroenterology*, 117: 359-367. PMID: 10419917
 8. Merendino, N., M.B. Dwinell, N.M. Varki, L. Eckmann, and M.F. Kagnoff. 1999. Human intestinal epithelial cells express receptors for platelet activating factor. *American Journal of Physiology* 277 (Gastrointestinal & Liver Physiology 40): G810-G818. PMID: 10516147
 9. Eckmann, L., J.R. Smith, M.P. Housley, M.B. Dwinell, and M.F. Kagnoff. 2000. Analysis by high-density cDNA arrays of altered gene expression in human intestinal epithelial cells in response to infection with the invasive enteric bacteria *Salmonella*. *Journal of Biological Chemistry*, 275: 14084-14094. PMID: 10799483
 10. Dwinell, M.B., N. Lügering, L. Eckmann, and M.F. Kagnoff. 2001. Regulated production of interferon-inducible T cell chemoattractants by human intestinal epithelial cells. *Gastroenterology*, 120: 49-59. PMID: 11208713 Commentary: Luster AD (2001) Chemokines regulate lymphocyte homing to the intestinal mucosa. *Gastroenterology*. 120(1):291-4. PMID: 11208738
 11. Izadpanah, A., M.B. Dwinell, L. Eckmann, N.M. Varki, and M.F. Kagnoff. 2001. Regulated production MIP-3 α /CCL20 production by human intestinal epithelium: Mechanism for modulating mucosal immunity. *American Journal of Physiology Gastrointestinal and Liver Physiology*, 280: G710-G719. PMID: 11254498
 12. Berin, M.C., M.B. Dwinell, L. Eckmann, and M.F. Kagnoff. 2001. Production of MDC/CCL22 by human intestinal epithelial cells. *American Journal of Physiology Gastrointestinal and Liver Physiology*, 280: G1217-G1226. PMID: 11352815
 13. Heidemann, J., H. Ogawa, M.B. Dwinell, P. Rafiee, C. Maaser, H.R. Gockel, M.F. Otterson, N. Lügering, W. Domschke, and D.G. Binion. 2003. Angiogenic effects of interleukin 8 (CXCL8) in human intestinal microvascular endothelial cells are mediated by CXCR2. *Journal of Biological Chemistry*, 278: 8508-8515. Epub 2002 Dec 20. PMID: 12496258
 14. Rafiee, P., H. Ogawa, J. Heidemann, M.S. Li, M. Aslam, T.H. Lamirand, P.J. Fisher, S.J. Graewin, M.B. Dwinell, C.P. Johnson, R. Shaker, D.G. Binion. 2003. Isolation and characterization of human esophageal microvascular endothelial cells: Mechanisms of inflammatory activation. *American Journal of Physiology Gastrointestinal and Liver Physiology*, 285: G1277-1292. Epub 2003 Aug 14. PMID: 12919942
 15. Dwinell, M.B., H. Ogawa, K.E. Barrett, and M.F. Kagnoff. 2004. Stromal cell-derived factor-1/CXCL12 regulates cyclic AMP production and ion transport in intestinal epithelial cells via CXCR4. *American Journal of Physiology Gastrointestinal and Liver Physiology*, 286: G844-G850. Epub 2003 Dec 18. PMID: 14684377
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