

**CURRICULUM VITAE**

**Education:** B.S. Animal Science, University of California, Davis CA 1987  
 D.V.M. Individual Track: Laboratory Animal Medicine, U.C., Davis CA 1992  
 Ph.D. Pathology, University of Washington, Seattle, WA 2005

**Career/Academic Appointments:**

10/1991, 1/1994, & 9/1994 Visiting Investigator, The Jackson Laboratory, Bar Harbor, ME  
 1993 - 1995 Attending Laboratory Animal Veterinarian/Scientist, Oncology Group, BASF Bioresearch Corporation, Worcester, MA  
 1995 - 1998 Postdoctoral Fellow, Comparative Pathology, New England Primate Research Center, Harvard Medical School, Southborough, MA  
 1997 - 1998 Part-time Instructor, Becker College, Worcester/Leicester, MA  
 1999 - 2003 Postdoctoral Fellow, Cardiovascular Pathology, University of Washington, Seattle, WA  
 2004 - Present Assistant Professor, Section of Comparative Medicine, Yale University School of Medicine, New Haven, CT

**Administrative Positions:**

2004 - Present Co-director Mouse Research Pathology, Section of Comparative Medicine, Yale University School of Medicine, New Haven, CT

**Consulting Activities:**

1992 - Present Small Animal & Laboratory Animal Veterinarian  
 Bio breeders, Watertown, MA (1995-1998)  
 Twin City Animal Hospital, Fitchburg MA  
 American Fancy Rat & Mouse Association

1997 - Present Veterinary Pathologist  
 Old Lyme Veterinary Hospital, Old Lyme, CT  
 Quakertown Veterinary Clinic, Quakertown, PA  
 New England Chow Chow Club

2009 - Present WAG/RijYcb Hemophilia A rats  
 Temple University  
 University of Pennsylvania  
 Novartis  
 Bayer Animal Health

**Small Animal Clinical Veterinary Medicine:** Private House Call Practice & Relief Work  
 Preventative Medicine, Surgery, Behavioral Therapy, Hospice, Euthanasia

**Licensure & Certification:**

1988 Laboratory Animal Technician Certification, American Association for Laboratory Animal Science  
 1998 Board Eligible: American College of Veterinary Pathology (ACVP)  
 1992 - Present Licensed Veterinarian: Commonwealth of Massachusetts Lic. # 4046  
 USDA National Accreditation 03/24/2016, Category 1. MA. #078463  
 1999 - 2006 Licensed Veterinarian: Washington State Lic. # 6129

2004 - Present Licensed Veterinarian: State of Connecticut: Lic. # 3063  
USDA National Accreditation 03/24/2016, Category 1. MA. #078463  
2014 - Present Licensed Veterinarian: State of Maine Lic. # VT2081

**Professional Honors & Recognition:**

1991 Hill's Laboratory Animal Scholarship School of Veterinary Medicine, U.C., Davis, CA  
1987 Outstanding Senior, University of California, Davis CA

**Research Support:**

**ACTIVE**

1R01HL123949-01 (Liu, PI) 08/15/14 -04/30/19 1.2 calendar  
NIH

*Low-dose SPECT/CT for imaging chemotherapy-induced microvascular cardiotoxicity*

The goal of this project is to provide an early index of disruption of the microcirculation and vascular reserve and improve detection of cancer therapy induced cardiotoxicity.

\*Dr. Booth=s effort is for years 2-5

Year 2 B 5% Year 3 B 10% Year 4 B 10% Year 5 B 10%

Role: Co-Investigator

W81XWH-14-1-0308 (Yan, PI) 09/15/14-09/14/17 0.24 calendar

Department of Defense Breast Cancer Research Program

*Targeting an epigenetic regulator RBP2 to suppress breast cancer metastasis*

Goals: Aim 1: Evaluate the roles of RBP2 demethylase in regulating expression of miR-335 and its target genes important in breast cancer metastasis. Aim 2: Determine the requirement of RBP2 and its demethylase activity in tumor metastasis in mouse cancer models.

Role: Co-Investigator

Era of Hope Scholar Award BC141326 (Yan) 05/01/15 – 04/30/20

Department of Defense Breast Cancer Research Program

*Epigenetic mechanisms of breast cancer metastasis*

Goals: 1.) Develop a platform for identification of key epigenetic mechanisms of breast cancer metastasis. 2.) Dissect the role of ERBCMs in breast cancer metastasis. 3.) Develop small molecule modulators of ERBCMs for clinical use.

Role: Co-Investigator

ACS (Yan PI) 01/01/13-12/31/16 0.24 calendar  
*Functional analysis of histone demethylase RBP2 in breast cancer*

The goals of the project are: (1) Identify the roles of RBP2 in invasion and metastasis of breast cancer cells;(2) Determine the mechanisms by which RBP2 promotes tumor metastasis; (3) Determine the effects of RBP2 loss on mammary tumor formation in Rb1<sup>fl</sup>, MMTV-CRe model.  
 Role: Collaborator

*WAG/RijYcb Hemophilia A Rat Model* (Booth)

Combination of Institutional Funds and Sponsored Research: Bayer Animal Health, Baxter, Alnylam.

Dr. Booth discovered a spontaneous coagulopathy in the WAG/Rij inbred rat substrain and determined that the underlying defect was a point mutation in the factor VIII gene. She further characterized the defect and developed it into the first spontaneous rodent animal model for hemophilia A (WAG/RijYcb rat). It represents a significant refinement to the current large animal coagulopathy models. As the expert on this rat model, including its translational value, Dr. Booth consults with domestic and international collaborators, some of whom she has shared the rats with, to further development and use this model to improve the understanding, management and treatment of the corresponding human disease. This rat model has enormous potential to transform how coagulopathy drug development and testing are approached in both academia and industry.

*Research Veterinary Pathology: Phenotyping Service* (Zeiss & Booth)

The Section of Comparative Medicine's Research Pathology Core and Phenotyping Service is an important link between genotype and phenotype, which is often a critical step in a project's "bench side to bed side" progression. Dr. Booth works in collaboration with investigators throughout Yale and other universities to assist investigators in establishing and interpreting phenotypic changes in murine models and, ultimately, to help translate the findings into improving the health of humans. This includes meeting with investigators in advance to plan the experimental design, determine the specimens to be collected and evaluated/scored and if any specialized tissue processing or analysis is needed (e.g. immunohistochemistry). She has also recognized unexpected phenotypes from clinical material submitted during her diagnostic pathology service rotations and has worked with the investigators to further characterize these findings and exploit them for model development. Dr. Booth performs all levels of examination, including gross necropsy and histopathology and provides descriptions of the findings, interpretation of the results in the context of the project's goals, mechanistic insight, and publication quality photo documentation. Although the majority of the research samples are from genetically engineered mice, Dr. Booth also evaluates and scores human research tissue samples for some investigators. As co-director of this service, Dr. Booth provides veterinary and pathology expertise to numerous investigators supported by many funding sources including NIH and HHMI.

#### **COMPLETED**

1R01DE021088-01 (Eswarakumar PI) 07/01/10 - 06/30/15  
 NIH

*Mechanisms of FGFR2 Signaling in Salivary Gland Branching Morphogenesis*

The overall goal of this proposal is to obtain a comprehensive molecular picture of the signaling pathways that are activated in response to Fgfr2b stimulation, specifically the Frs2 $\alpha$ -mediated pathways essential for the development and branching morphogenesis of salivary glands.

Role: Collaborator

2013-0201 (Yan, PI) 05/01/13-04/30/15

CT DPH

*Roles of Histone Demethylase RBP2 in Breast Cancer Metastasis*

The goal of the project is to dissect the roles of histone demethylase RBP2 in breast cancer metastasis.

Role: Co-investigator

R21 AI109410-01A1 (Robek, PI)

02/12/14-01/31/16

NIH/NIAID

*A new humanized mouse model of chronic hepatitis B*

The goal of this project is to develop a new humanized transgenic mouse model of chronic HBV infection, and to study determinants of HBV-associated immunopathology using this model.

Role: Collaborator

Alnylam Pharmaceuticals (Booth PI)

02/02/14-05/31/14 4.8 calendar

Sponsored Research

*RNAi-mediated Modulation of Hemostasis: Analysis in WAG-F8-m1Ycb*

The aim of this work is to observe and characterize the bleeding phenotype in WAG-F8<sup>m1Ycb</sup> rats under conditions that mimic the daily activities of life (DAOL).

Role: PI

R01-AI089824-01 (Rothlin, PI)

09/01/10-08/31/14\*

NIH

*TAM receptor tyrosine kinases in inflammatory bowel disease*

The major goals of this project are to determine whether the TAM receptors and ligands function as biological anti-inflammatory agents in vivo in mouse models of inflammation, to examine the biological basis of TAM-mediated regulation of innate and adaptive immune responses and to evaluate if the expression level of TAM receptors and ligands correlates with induction/progression of inflammatory disease.

Role: Collaborator \*Dr. Booth's role ended on 8/31/13

R01 HD065200-01A1 (Rivkees, PI)

09/20/10-05/31/14\* 0.6 calendar

NICHD

*Graves' Disease Therapy Risks to Mother and Fetus*

The goals of the project are to assess the risks of ATD treatment during pregnancy on mother and fetus, and to assess teratogenic potential of PTU and MMI.

\*Dr. Booth's role ended on 8/31/13

Baxter Healthcare Corporation (Booth, PI)

01/01/11-12/31/11 2.4 calendar

Sponsored Research

The goal of this project is to determine the pharmacokinetics of human recombinant FVIII in the WAG/RijYcb Hemophilia A rats and develop reagents key for development of this experimental model for use in improving the understanding, management and treatment of the corresponding human disease.

Role: PI

5R01HD033937-14 (Lockwood, PI)

05/01/1995-06/30/12 0.6 calendar

*Progesterin Effects on Uterine Hemostasis & Angiogenesis*

The major goal of this project is to elucidate the mechanisms regulating uterine bleeding secondary to long-term progesterin-only contraception.

Role: Collaborator

CCFA # 2757 (MacMicking, PI) 07/01/10-06/30/13 0.24 calendar  
Crohn's & Colitis Foundation of America

*Functional Importance of Immunity-related GTPases in IBD Development*

The goal of this project is to examine whether specific members of the IRG superfamily are critical for IBD pathogenesis. Dr. Booth is responsible for histopathological analysis of the colons.

Role: Collaborator

CCFA# 2686 (Rothlin, PI) 01/01/10-12/31/12 0.06 calendar  
Crohn's & Colitis Foundation of America

*Role of TAM receptor signaling in intestinal mucosal homeostasis*

The major goal of this project is to obtain proof of principle for the pharmacological targeting of the TAM tyrosine kinases as a novel approach in the treatment of intestinal inflammation.

Role: Collaborator

**Other Extramural Funding**

2016

*Gravid Canine Uterine / Fetal Membrane Fluid Overload* Ongoing

2014

*Histopathologic Evaluation and Scoring: Mouse tissues, Multiple Projects* Complete

Julie R. Hens, PhD, Senior Scientist, Cell Biology Lab

Orentreich Foundation for the Advancement of Science

Cold Spring on the Hudson, NY 10516

2014

*Collaboration, WAG/RijYcb Hemophilia A Rat, Gene Therapy* Ongoing

Drew Weissman, MD, PhD, Professor of Medicine, University of Pennsylvania; Co-Director, Penn Center for Aids Research, Immunology Core, Philadelphia, PA

2014

*Histopathologic Evaluation and Scoring: Mouse Limbs and Heart* Ongoing

Juan C. Salazar, MD, MPH, Chair Department of Pediatrics and Professor of Pediatrics, University of Connecticut, School of Medicine, Hartford, CT

2014

*Histopathologic Evaluation and Scoring: Mouse Colon and Lung* \$3,887.73 Completed

Daniel Hawiger, MD, PhD, Assistant Professor, Department of Molecular Microbiology and Immunology, Saint Louis University School of Medicine, St. Luis, MO

2013

*Necropsy, Blood Collection, Gross Evaluation, Histopathologic Evaluation: Snai3 Null Mice* \$1,816.62 Published

Thomas Gridley, PhD Senior Scientist, Center for Molecular Medicine, Maine Medical Center Research Institute, Scarborough, ME

2012

*Histopathologic Evaluation: Mouse Phenotyping* \$334.62 Completed

Terry Hubec, DVM, PhD Associate Professor of Anatomy and Embryology College of Osteopathic Medicine, Virginia Campus; Research Assistant Professor, VA-MD Regional College of Veterinary Medicine, Virginia Tech, Blacksburg, VA

2011 - 2012 \$10,853.79 Published  
*Necropsy, Blood Collection, Gross Evaluation, Histopathologic Evaluation and Screening for Microthrombi: Mice Expressing FIX , FDA Studies*

Paul E. Monahan, MD Associate Professor, Department of Pediatrics, Division of Hematology/Oncology; Attending Physician, Comprehensive Hemophilia Diagnostic and Treatment Center; University of North Carolina at Chapel Hill, NC

2011 \$2,198.8 Published  
*Necropsy, Blood Collection, Gross Evaluation, Histopathologic Evaluation: Malat1 KO Mouse*  
 Bin Zhang, Laboratory of David L. Spector, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.

2010 - Present \$12,000 On going  
*Histopathologic Evaluation and Scoring: Rat Limbs*  
 Byung-Chul Oh, PhD Associate Professor, Lee Gil Ya Cancer and Diabetes Institute  
 Gachon University of Medicine and Science, Incheon, Korea

2009 \$1,495.50 Completed  
*Necropsy, Blood Collection, Gross Evaluation, Histopathologic Evaluation*  
 Christine Richardson, PhD Associate Professor and Graduate Program Coordinator  
 Dept. of Biology and Bioinformatics Research Center, University of North Carolina Charlotte, Charlotte, NC

2008 \$1,760.00 Completed  
*Histopathologic Evaluation: Mouse Phenotyping*  
 Ken Irvin, PhD Professor of Molecular Biology and Biochemistry and Investigator Howard Hughes Medical Institute, Waksman Institute, Rutgers, The State University of New Jersey, Piscataway, NJ

2006 - 2009 \$4,310.00 Completed  
*Histopathologic Evaluation: Mouse Phenotyping*  
 Peter W. Laird, PhD Director, USC Epigenome Center, Professor of Surgery, Professor of Biochemistry & Molecular Biology, Keck School of Medicine,  
 University of Southern California / Norris Comprehensive Cancer Center, LA, CA

#### **Posters, Abstracts, Lectures, Courses:**

2015: Middlesex Community College Veterinary Technician Student Training at Yale  
 Blood collection and necropsy of the mouse

#### On going

2009: Presentations: Tales from a Veterinary Pathologist (even)  
 Every year Tales from a Clinical Veterinarian (odd). Yale School of Medicine, Bring Your Child to Work Day program.

2010: Lecturer: The Mouse Biomedical Research: Pathologic Phenotyping and  
 Even years Histopathology. Yale University School of Medicine, Genetics 703 01. Yale University School of Medicine.

2005: Seminar: NHP Hemoparasitic Diseases. Section of Comparative Medicine.  
 Odd years

## Previous:

- 2014: Presentation/Abstract: Krause D, Halene S, Booth CJ, Jim H, Sou S, Teixeira AM, Zhang PX. Epithelial (E)-Cadherin Is a Novel Regulator of Platelet Function. American Society of Hematology, Dec. 2014.
- 2014: Seminar: Hemophilia A in Inbred WAG/RijYcb Rats & Diagnostic and Collaborative Research Veterinary Pathology. Research in Progress, Pathology Department, Yale University School of Medicine.
- 2014: Abstract: Monahan PE, Sun J, Hu G, Booth CJ, Walsh CE, McPhee SW, Samulski RJ. Expression of a gain of function factor IX variant from adeno-associated virus (AAV) serotype 8 in a human clinical trial of gene therapy. *Haemophilia*; 20:57.
- 2014: Seminar: Update on the WAG/RijYcb Hemophilia A Rat Project. Research in Progress, Section of Comparative Medicine.
- 2013: Abstract: Gu X, Booth CJ, Liu Z, Strout MP. Activation Induced Cytidine Deaminase-Associated DNA Repair Pathways Influence Germinal Center B Cell Lymphomagenesis. *Blood*;122.
- 2004 - 2016 Seminar: Neoplasia in Rabbits. Section of Comparative Medicine.
- 2012: Abstract: Sun J, Gui T, Wichlan D, Booth CJ, Hannah WB, McPhee SW, Samulski RJ, Monahan PE. Preclinical Evaluation of an Aav Gene Therapy Vector Engineered to Advance Efficacious Factor IX Expression with Decreased Vector Capsid Exposure. *American Journal of Hematology*;87:S162-3.
- 2012: Poster/Abstract: Caporizzo D, Booth CJ, Chen M, Scholz JAC, Smith PC, Wilson SR. Use of FDG PET/CT to Support a Diagnosis of Intestinal Adenocarcinoma in a Rhesus Macaque. *Journal of the American Association for Laboratory Animal Science*;51:657.
- 2012: Poster/Abstract: Grove TA, Smith PC, Booth CJ, Compton SR. Assessment of Age Susceptibility of Swiss Webster Females to Excluded Murine Pathogens. *Journal of the American Association for Laboratory Animal Science*;51:634.
- 2011: Poster/Abstract: Gu X, Booth CJ, Schatz DG, Strout MP. The Role of DNA Repair in the Pathogenesis of Activation Induced Cytidine Deaminase Dependent B Cell Lymphoma. *Blood*;118:182-3.
- 2011: Poster/Abstract: Krikun G, Booth CJ, Buchwalder L, Schatz F, Lockwood CJ. Differential Effects of Etonogestrel vs Medroxyprogesterone Acetate Treatment in Non-Oophorectomized Guinea Pigs. *Reproductive Sciences*;18:83A.
- 2010: Poster/Presentation: Factor VIII Deficiency in inbred WAG/RijYcb Rats, A New Model of Hemophilia A. Gordon Research Conference & Seminar on Hemostasis, Waterville, New Hampshire.
- 2010: Poster/Presentation: Factor VIII Deficiency in inbred WAG/RijYcb, A New Model of Hemophilia A. 5<sup>th</sup> Symposium on Hemostasis. University of North Carolina,

Chapel Hill, NC.

- 2010: Speaker: Specialized Histopathological Techniques Used in Mouse Research Pathology. The Connecticut Society of Histotechnologists 2010 Region I Histotechnology Conference and Symposium. Mystic, CT.
- 2005-20010: Section of Comparative Medicine, Weekly slide training, Armed Forces Institute of Pathology Training Slides, continuing education for CMED virology technicians
- 2005-2009: Section of Comparative Medicine, Weekly Armed Forces Institute of Pathology Slides, Training for Laboratory Animal Veterinarian Residents.
- 2009: Poster/Abstract: Wellington DA, Carlson JA, Smith PC, Wilson SR, Williams MJ, Booth CJ. Disseminated Mycobacteriosis in a Giant Elephant Shrew (*Rhynchocyon petersi*). Journal of the American Association for Laboratory Animal Science, 48:5 p 572.
- 2009: Poster/Abstract: Williams-Fritze, MJ; Scholz, JAC; Booth, CJ. Use of p63, a Myoepithelial Cell Marker, in Determining the Invasiveness of Spontaneously Occurring Mammary Neoplasia in a Rhesus Macaque (*Macaca mulatta*). Journal of the American Association for Laboratory Animal Science, 48:5 p 572.
- 2009: Fill in Seminar: Hematology and Cytology in Laboratory Animals. Section of Comparative Medicine.
- 2009: Poster/Abstract: Walker, WE; Booth, CJ; Goldstein, DR. ATR9 and IRF3-Dependent Pathways Synergize To Induce Mortality in Response to a Liposome: DNA Vector@. Molecular Therapy;17 p S243.
- 2004-2009: Yale University/Quinnipiac College, Veterinary Technician Student Training Lecture and Laboratory: Fall and Spring Semesters:  
Blood collection and necropsy of the mouse  
Overview of histology and comparative veterinary pathology  
Veterinary Case Presentations  
Necropsy of the Rabbit
- 2008: Poster/Abstract: Ravishankar, V; Buhimschi, CS; Booth, CJ. Nucleated red blood cells are a direct response to mediators of inflammation in newborns with early-onset neonatal sepsis (vol 198, art no 426.e1, 2008). American Journal of Obstetrics and Gynecology;198:6 p 728.
- 2008: Lectures: Yale University School of Medicine, Genetics 703 01, The Mouse in Biomedical Research. Lectures: Pathologic phenotyping: Principles of sample size selection, variability of the phenotype, effect of background pathology, clinical chemistry, when is pathology indicated. Histology practical: Overview of major histologic features of normal mouse tissues.



- 2007: Abstract/ Poster: Beiler RJ, Booth CJ. Atypical presentation of mycobacteriosis in a zebrafish (*Danio rerio*). Journal of the American Association for Laboratory Animal Science; 46:4 p 107.
- 2007: Seminar: Comparative Clinical Chemistry. Section of Comparative Medicine.
- 2006: Presentation: Tales from a Veterinary Pathologist. Yale School of Medicine, Bring Your Child to Work Day.
- 2006: Seminar, Blood Parasites in Nonhuman Primates. Section of Comparative Medicine.
- 2006: Seminar: Phenotyping Mice and Viral Diseases of Mice. Harvard Medical School, New England Primate Research Center, Southborough, MA.
- 2005: Presentation: Tales from a Veterinary Pathologist. Yale School of Medicine, Bring Your Child to Work Day.
- 2005: Seminar: Viral Diseases of Rats and Mice Part 1 and Part 2. Section of Comparative Medicine.
- 2004: Presentation: Tales from a Veterinary Pathologist. Yale School of Medicine, Bring Your Child to Work Day.
- 2002: Pathology Case Presentation: Booth, CJ. (Presenter), Westmoreland, S. SIV infected Rhesus Macaque with cerebellar and pulmonary amebiasis. Primate Pathology Workshop: Monterey, CA.
- 2002: Seminar: Canine Reproduction verses reproduction in the Chow. Chow Chow Club Inc. National Specialty, Olympia, WA.
- 2002: Seminar: Diseases of the Chow. Chow Chow Club Inc. National Specialty, Olympia, WA.
- 2001: Poster: Testing the role of platelet derived growth factor receptor (PDGR $\beta$ ) in stellate cell response to hepatic injury. Frontiers in Cardiovascular Research Conference. University of Washington, Seattle, WA.
- 1998: Adjunct Instructor: VS 322 Veterinary Histology, a 4 unit semester course. Veterinary Science Program, Becker College, Leister, MA.
- 1997: Adjunct Instructor: VS 412 Laboratory Animal Diseases, a 3 unit semester course. Becker College, Leister, MA.
- 1997: Pathology Case Presentation: Multiple opportunistic infections in the lung of an SIV infected rhesus macaque. Northeastern Veterinary Pathology Conference.

1997: Platform Presentation /Poster: Renal cell carcinomas in two DSH cats: histologic, ultrastructural, and clinical pathologic features. American College of Veterinary Pathologists, Albuquerque, NM.

1995: Presentation: The importance of using restricted flora mice in anticancer research. National Meeting American Association for Laboratory Animal Science. Baltimore, MD.

**Professional Service:**

**Journal Service**

2006 – Present Reviewer for Journal of the American Association for Laboratory Animal Science

2006 – Present Reviewer for Comparative Medicine

2011 – Present Reviewer for Veterinary Pathology

2014 – Present Reviewer for the Molecular Cancer Therapeutics

**Book Reviews**

2010:

**Elsevier/Academic Press**

Boorman Pathology of the Rat

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Preface

Introduction

Chapter 16 - Eye and Associated Glands

Chapter 22 - Spleen, Lymph Nodes and Thymus

**Internships:**

2009 – present

One to two week unpaid internships for high school, undergraduate, or graduate students interested in finding out more about a career in laboratory animal veterinary medicine, veterinary pathology, or science/research. Students learn to do rodent euthanasia, blood collection and necropsy. Other activities may include job shadowing with a veterinary technician, laboratory animal veterinarian resident, research technician, or research postdoctoral candidates.

**Professional Organizations:**

1991 - Present Member, The American Veterinary Medical Association

2005 - Present Member, Yale Society of Women in Science

2014 - Present Member, The American Association for Laboratory Animal Science

**August 2016**

**Carmen Jane Booth, D.V.M., Ph.D.**

**Community Service:**

- 2012 June - Present Certified Pet Partner's Therapy Dog Handler, Madison CT
- 2012 - Present B-flat Clarinetist, Connecticut Symphonic Winds, Stratford, CT
- 2012 - Present Tenor Saxophonist, Guilford Town Band, Guilford, CT
- 2012 May  
2013 June Invited Exhibitor: Women in Careers in Science and Technology for Girls In Technology Expo. Housatonic College, Bridgeport, CT
- 2012 March Invited Exhibitor: Women in Careers in Science, Technology, Engineering, and Math for Celebrating Visionary Women and Extraordinary Leadership. Women's History Month, Discovery Museum, Bridgeport, CT
- 2010 - Present Guest speaker, assist with microcopy laboratory: Anatomy & Physiology F, W, S Trimester Course, Daniel Hand High School, Madison, CT,
- 2009 - 2015 Chair, Steering Committee, Yale School of Medicine Bring Your Child to Work Day
- 2008 - 2012 Co-chair, Youth Religious Education Committee, Shoreline Unitarian Universalist Society, Madison CT
- 2009 - 2012 Member, Board of Trustees, Shoreline Unitarian Universalist Society, Madison, CT
- 2010 - 2012 Senior High School Youth Group Leader, Shoreline Unitarian Universalist Society, Madison CT
- 2008 - 2014 Madison Interfaith Youth Coalition Youth Leader, Shoreline Unitarian Universalist Society, Madison CT
- 1991 - Present Contributor to Selected Topics in Health Care for: Rat and Mouse Tails, Newsletter of the American Fancy Rat and Mouse Association

**BIBLIOGRAPHY:**Peer-Reviewed Manuscripts:

1. **Booth CJ**, Sundberg JP. Hemangiomas and hemangiosarcomas in inbred laboratory mice. *Laboratory Animal Science*.1995;45: 497-502. PMID: 8569146
2. **Booth CJ**, Sundberg JP. Spontaneous neoplasms in a large colony of BALB/cJ and BALB/cByJ mice. In *ILSI Monographs on the Pathology of Aging Animals: Pathobiology of the Aging Mouse*. 1996;51-61.
3. **Booth CJ**, Sundberg JP. Hemangiomas and hemangiosarcomas. In *ILSI Monographs on the Pathology of Aging Animals: Pathobiology of the Aging Mouse*. 1996; 393-401.
4. Goodyear RJ, Legan PK, Wright MB, Marcotti W, Oganessian A, **Booth CJ**, Kros CJ, Seifert RA, Bowen-Pope DF, Richardson GP. A receptor-like inositol lipid phosphatase is required for the maturation of developing cochlear hair bundles. *Journal of Neuroscience*. 2003;23: 9208-19. PMID: 14534255
5. Seifert RA, Coats SA, Oganessian A, Wright MB, Dishmon M, **Booth CJ**, Johnson RJ, Alpers CE, Bowen-Pope DF. PTPRQ is a novel phosphatidylinositol phosphatase that can be expressed as a cytoplasmic protein or as a subcellularly localized receptor-like protein. *Experimental Cell Research*. 2003;287: 374-386. PMID: 12837292
6. Reuter JD, Fowles K, Terwilliger G, **Booth CJ**. Latrogenic tension pneumothorax in a rabbit (*Oryctolagus cuniculus*). *Contemporary Topics in Laboratory Animal Science*. 2005;44:22-5. PMID: 16050663
7. Zhang HZ, Degarb BA, Rogoulina S, Resor C, **Booth CJ**, Sinning J, Gage P J and Forget, BG. Hematopoiesis following disruption of the Pitx2 homeodomain gene. *Experimental Hematology*. 2006;34:167-78. PMID: 16459185
8. Lakhani SA, Masud AA, Kuida K, Porter G, **Booth CJ**, Mehal BZ, Inayat I, Flavell R A. Caspases 3 and 7: key mediators of mitochondrial events of apoptosis. *Science*. 2006;311:847-51. PMID: 16469926
9. Lu J, Hou R, **Booth CJ**, Yang S, Snyder M. Defined culture conditions of human embryonic stem cells. *Proceedings of the National Academy of Science, U. S. A*. 2006;103:5688-93. PMID: 16595624
10. Canaan A, Yu X, **Booth CJ**, Lian J, Kohya N, Eynon E, Flavell R, Weissman SW. FAT10/Diubiquitin-Like Protein-Deficient Mice Exhibit Minimal Phenotypic Differences. *Molecular and Cellular Biology*. 2006;26:5180-9. PMID: 167829011132. PMID: 16964266
11. Lalioti MD, Zhang J, Volkman H, Kahle KT, Hoffmann KE, Toka HR, Nelson-Williams C, Ellison DH, Flavell RA, **Booth CJ**, Lu Y, Geller DS, Lifton RP. Wnk4 controls blood pressure and potassium homeostasis via regulation of mass and activity of the distal convoluted tubule. *Nature Genetics*. 2006;38:1124-1132. PMID: 16964266

12. Walker WE, Nasr IW, Camirand G, Tesar BM, **Booth CJ**, Goldstein DR. Absence of innate MyD88 signaling promotes inducible allograft acceptance. *The Journal of Immunology*. 2006;177:5307-5316. PMID: 17015716
13. Eswarakumar VP, Ozcan F, Lew ED, Bae JH, Tome F, **Booth CJ**, Adams DJ, Lax I, Schlessinger J. Attenuation of signaling pathways stimulated by pathologically activated FGF-receptor 2 mutants prevents craniosynostosis. *Proceedings of the National Academy of Science U S A*. 2006;103:18603-8. PMID: 17132737
14. Montgomery RR, **Booth CJ**, Wang X, Blaho VA, Malawista SE, Brown CR. Recruitment of Macrophages and Polymorphonuclear Leukocytes in Lyme Carditis. *Infection and Immunology*. 2007;75:613-20. PMID: 17101663
15. Ravishankar V, Buhimschi CS, **Booth CJ**, Norwitz E, Copel J, Buhimschi IA. Fetal nucleated red blood cells in a rat model of intrauterine growth restriction and hemorrhagic diathesis induced by hypoxia and nitric oxide synthase inhibition. *American Journal of Obstetrics and Gynecology*. 2007;96:482:e1-8. PMID: 17466713
16. Narasimhan S, DePonte K, Marcantonio N, Liang X, Royce T, Nelson K, **Booth CJ**, Koski B, Anderson JF, Kantor F and Fikrig E. Immunity against *Ixodes scapularis* salivary proteins expressed within 24 h of attachment thwarts tick feeding and impairs *Borrelia* transmission. *Public Library of Science ONE*. 2007;16;2:e451:1-12. PMID: 17505544
17. Belperron AA, Dailey CM, **Booth CJ**, Bockenstedt LK. Marginal Zone B-Cell Depletion Impairs Murine Host Defense against *Borrelia burgdorferi* Infection. *Infection and Immunity*. 2007;75:3354-60. PMID: 17470546
18. Hawiger D, Tran E, Du W, **Booth CJ**, Wen L, Dong C, Flavell, RA. ICOS mediates the development of insulin-dependent diabetes mellitus in nonobese diabetic mice. *Journal of Immunology*. 2008;80:3140-7. PMID: 18292537
19. Kim H, **Booth CJ**, Pinus AB, Chen P, Lee A, Qiu M, Whitlock M, Murphy PS, Constable RT. Induced Hepatic Fibrosis in Rats: Hepatic Steatosis, Macromolecule Content, Perfusion Parameters, and Their Correlations - Preliminary MR Imaging in Rats. *Radiology*. 2008;247:696-705. PMID: 18403622
20. Jackson-Fisher AJ, Bellinger G, Breindel JL, Tavassoli FA, **Booth CJ**, Duong JK, Stern DF. ErbB3 is required for ductal morphogenesis in the mouse mammary gland. *Breast Cancer Research*. 2008;10:R96:e1-12. PMID: 19019207
21. Wang Y, **Booth CJ**, Kim H, Qiu M, Constable RT. Evaluation of Hepatic Fibrosis with Portal Pressure Gradient in Rats. *Magnetic Resonance in Medicine*. 2009;61:1185-92. PMID: 19253377
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