

CURRICULUM VITAE

Jannette M. Dufour, Ph D

OFFICE ADDRESS

Cell Biology and Biochemistry
3601 4th St. STOP 6540
Texas Tech University Health Sciences Center
Lubbock, TX 79430
Phone: (806) 743-2616
email: jannette.dufour@ttuhsc.edu

EDUCATION

| Degree | Institute | Discipline | Year |
|--------|-------------------------------|------------------------------------|--|
| PhD | Washington State University | Genetics and Cell Biology | 1999 |
| BSc | Central Washington University | Chemistry (Biochemistry option) | 1994 (Summa Cum Laude, President's Scholar) |
| BA | Central Washington University | Biology | 1994 (Summa Cum Laude, President's Scholar) |
| AS | Olympic College | Science | 1992 (Honors) |

POSITIONS AND EMPLOYMENT

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| 2023-present | Department Chair , Cell Biology and Biochemistry, School of Medicine, Texas Tech University Health Sciences Center, Lubbock, TX. |
| 2019-present | Co-Director , Center of Excellence in Obesity and Cardiometabolic Research (2025-present), Obesity Research Institute (2019-2025), TTU System |
| 2018-present | Professor (with tenure) , Cell Biology and Biochemistry, School of Medicine and Graduate School of Biomedical Sciences, Texas Tech University Health Sciences Center, Lubbock, TX. |
| 2012-2018 | Associate Dean for Research , School of Medicine, Texas Tech University Health Sciences Center, Lubbock, TX. |
| 2012-2018 | Associate Professor (with tenure) , Cell Biology and Biochemistry, School of Medicine and Graduate School of Biomedical Sciences, Texas Tech University Health Sciences Center, Lubbock, TX. |
| 2005-2012 | Assistant Professor , Cell Biology and Biochemistry, School of Medicine and Graduate School of Biomedical Sciences, Texas Tech University Health Sciences Center, Lubbock, TX. |
| 2000-2005 | Co-Director of Islet Histology Laboratory , Surgical-Medical Research Institute, University of Alberta, Edmonton, AB. |

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| 1999-2005 | Director: Dr. Gregory S. Korbett Postdoctoral Fellow , Islet Transplantation Laboratory, Surgical-Medical Research Institute, University of Alberta, Edmonton, AB. Postdoctoral Mentors: Dr. Ray V. Rajotte, Dr. Gregory S. Korbett The Alberta Heritage Foundation for Medical Research Postdoctoral Fellow , 2004/10-2005/02 The Alberta Heritage Foundation for Medical Research Postdoctoral Fellow Incentive Award , 2003/10-2004/09 Canadian Institutes of Health Research Postdoctoral Fellow , 2003/10-2004/09 Canadian Diabetes Association Postdoctoral Fellow , 2003 (Declined) Juvenile Diabetes Research Foundation Postdoctoral Fellow , 2001/10-2003/09 Honorary Izaak Walton Killam Postdoctoral Fellow , 2001/09-2003/08 Izaak Walton Killam Postdoctoral Fellow , 2001 (Declined) Postdoctoral Fellow , Center for Reproductive Biology, School of Molecular Biosciences, Washington State University, Pullman, WA. |
| 1999-1999 | Postdoctoral Mentor: Dr. Kwan Hee Kim Graduate Research Assistant , Department Genetics and Cell Biology, Washington State University, Pullman, WA. |
| 1994-1999 | Graduate Assistant Mentor: Dr. Kwan Hee Kim Dissertation: Retinoid receptor expression and regulation in the testis. |
| 1991-1994 | Laboratory Assistant , Naval Supply Center, Fleet Industrial Supply Center, Manchester Fuel Depot, Manchester, WA. Supervisor: Ken Patterson |

CURRENT GRANT SUPPORT

Welch Endowed Chair, Promotion of basic and clinical research (\$120,000/year, 3/1/2023-no end date)

Dufour (Principal Investigator)

Institute for One Health Innovation Seed Funding, “Evaluation of the male reproductive tract as a viral sanctuary site using a humanized mouse model of HIV infection.” (\$100,000, 9/2025-3/2027)

Dufour (Principal Investigator), Fon Tacer (Co-PI), Almodovar (Co- Investigator)

CH Foundation Seed Grant, “A new experimental model for fatty liver-induced liver cancer.” (\$50,000, 1/2026-12/2026)

Dufour (Principal Investigator), Chilton, Martinez-Zaguilan, Kaur (Co- Investigator)

RH Pickering Family Foundation, Diabetes research (\$40,000, 12/17/2024-no end date)

Dufour (Principal Investigator)

Research and Extension Experiences for Undergraduates, Agriculture and Food Research Initiative, (NIFA, USDA), “Nutrition Bench-to-Community Engaged Scholars in Texas (Nutrition BEST) REEU Program.” (\$500,000, 5/2021 to 4/2026)

Dufour (Collaborating Mentor), Moustaid-Moussa (Director)

PAST GRANT SUPPORT

University of North Carolina, “Novel Mechanisms of Wnt Pathway Modulation.” (\$63,200, 5/1/2024-12/31/2024)

Dufour (Principal Investigator), Pruitt (Co- Investigator)

CH Foundation Seed Grant, “The role of TGF-Beta and retinoic acid in Sertoli cell induction of Tregs.” (\$72,400, 1/2022-12/2022)

Dufour (Principal Investigator), Kaur (Co- Investigator)

CBB Women’s Health and Sex and Gender Differences Seed Grant, “Sertoli cell induction of Tregs in female recipients.” (\$15,000, 12/01/2020-11/30/2021)

Dufour (Principal Investigator), Kaur (Co- Investigator)

CH Foundation Seed Grant, “Investigating Sertoli cell immune regulation to improve islet survival as a treatment for diabetes.” (\$60,000, 1/2021-12/2021)

Kaur (Principal Investigator), **Dufour** (Co- Investigator)

The Jasper L. and Jack Denton Wilson Foundation, “Genetically engineered Sertoli cells as a vehicle for cell based gene therapy.” (\$490,000, 12/01/2014-11/30/2020, no cost extension to 5/30/2021)

Dufour (Principal Investigator), Kaur (Co- Investigator)

Ted Nash Long Life Foundation, “Reducing cardiovascular risks using Sertoli cell-based gene therapy.” (\$300,000, 12/01/2016-11/30/2019)

Dufour (Principal Investigator), Kaur (Co- Investigator)

Laura W. Bush Institute for Women’s Health and University Medical Center Women’s Health Seed Grant Award, “Utilizing tocotrienols to prevent the formation of islet amyloid deposits – a novel treatment for diabetes mellitus.” (\$20,000, 11/1/2017-10/31/2019)

Kaur (Principal Investigator), **Dufour**, Shen, Cornwall (Co- Investigators)

NIH R15AI109398, “Regulatory T cells to improve Sertoli cell protection of transplanted islets.” (\$448,871, 07/01/2014 – 06/30/2017, no cost extension to 6/30/2018)

Dufour (Principal Investigator)

South Plains Foundation “Examining the mechanism of porcine Sertoli cell survival to improve xenotransplantation.” (\$15,0000 Total, 9/01/2017–08/31/2018)

Kaur (Principal Investigator), **Dufour** (Co- Investigators)

American River Nutrition, Inc. “Effects of Bioactive Compounds (Tocotrienols and Geranylgeraniol) on Type 2 diabetic rats.” (\$99,830, 4/2015 – 07/31/2017, no cost extension to 12/31/2017)

Shen (Principal Investigator), **Dufour**, Chung, Moustaid-Moussa (Co- Investigators)

Obesity Research Cluster Pilot and Feasibility Grant, “Identification of Novel Pathways and miRNA Targets Mediating Effects of Angiotensin in Obesity-related Diabetes pancreatic function” (\$8,000, 9/1/2016-7/31/2017)

Dufour (Principal Investigator), Ramalingam, Moustaid-Moussa and Kottapali (Co-

Investigators)

Laura W. Bush Institute for Women's Health and University Medical Center Women's Health Seed Grant Award, "Hlrf in gender biased neonatal survival." (\$20,000, 2/1/2016-1/31/2017)

Chilton (Principal Investigator), **Dufour**, Smith (Co- Investigators)

American Heart Association Predoctoral Fellowship, "Sertoli cells secreting processed proinsulin: A unique therapy for reducing cardiovascular risks in diabetes." (\$50,000, January 1, 2015-December 31, 2016)

Dufour (Mentor), Lea Ann Thompson, PhD Student

Obesity Research Cluster Pilot and Feasibility Grant, "Maternal supplementation of omega-3 poly unsaturated fatty acids alleviates obesity-associated inflammation in the offspring" (\$8,000, 10/1/2015-7/31/2016)

Ramalingam (Principal Investigator), **Dufour** and Dawson (Co- Investigators)

TTUHSC SOM Collaborative Research Grant Program, "Hlrf regulates the placental source of serotonin for fetal pancreas." (\$20,000, 3/15/2015-3/14/2016)

Chilton (Principal Investigator), **Dufour**, Smith and Wachtel (Co- Investigators)

Texas Tech University Transdisciplinary Research Academy, "System-based transdisciplinary approaches by "omics and bioinformatics" tools to identify biomarkers of at risk and progression of type I diabetes." (\$4,000, 4/2014-4/2015)

Dufour, J.M. (Team Member)

Diabetes Action Research & Education Foundation, "Importance of regulatory T cells in Sertoli cell immune protection of transplanted pancreatic islets." (\$10,000, 1/2014-12/2014)

Dufour (Principal Investigator)

NIH R01HD067400, "Transplantation of genetically modified, immune-privileged Sertoli cells." (\$681,462, 9/28/2010-6/30/2013, no cost extension to 6/30/2014)

Dufour (Principal Investigator)

Laura W. Bush Institute for Women's Health, "Sex and Gender-Based Medicine Triad - Diabetes." (\$19,200, 5/2013-5/2014)

Dufour (Principal Investigator)

CH Foundation Seed Grant, "A treatment for diabetes using immune-privileged Sertoli cells." (\$50,000, 12/2012-12/2013)

Dufour (Principal Investigator)

Laura W. Bush Institute for Women's Health and University Medical Center Women's Health Seed Grant Project, "Examining the immune-privileged abilities of Sertoli cells." (\$20,000, 02/2010-01/2011)

Dufour (Principal Investigator)

TTUHSC Preliminary Data Grant Program, “Transplantation of genetically modified immune-privileged Sertoli cells.” (\$20,000, 01/2010-12/2010)

Dufour (Principal Investigator)

American Diabetes Association, Junior Faculty Award “Harnessing the immunoprotective properties of Sertoli cells for islet transplantation” (\$412,254 Total, 01/2006–12/2008, no cost extension to 06/2009)

Dufour (Principal Investigator)

Texas Advanced Research Program “Genetically Engineered Sertoli Cells as a Vehicle for Gene Therapy.” (\$83,200 Total, 05/2006–05/2008, no cost extension to 01/2009)

Dufour (Principal Investigator)

TTUHSC Internal Medicine Department Seed Grant, “Autologous Buccal Keratinocytes to Promote Healing After Esophageal Mucosal Resection in Barrett’s esophagus.” (\$10,000 Total, 01/2008-12/2008)

Parupudi (Principal Investigator), **Dufour** (Co-investigator), Variyam (Co-investigator)

TTUHSC School of Medicine Clinical Basic Sciences Seed Grant, “Autologous cultured buccal keratinocyte cell sheets versus autologous buccal mucosal grafts after circumferential endoscopic mucosal resection to prevent stricture formation in Barrett’s esophagus.” (\$20,000 Total, 01/2008-12/2008)

Parupudi (Principal Investigator), **Dufour** (Co-investigator), Variyam (Co-investigator)

Helen Jones Foundation “Diabetes: Harnessing The Immunoprotective Properties of Sertoli Cells For Treatment.” (\$28,000 Total, 01/2006–12/2006)

Dufour (Principal Investigator)

South Plains Foundation “Harnessing The Immunoprotective Properties Of Sertoli Cells” (\$10,000 Total, 9/2005–08/2006)

Dufour (Principal Investigator)

Texas Tech University Health Sciences Center, School of Medicine Seed Grant “Genetically Engineered Sertoli Cells as a Vehicle for Gene Therapy.” (\$19,790 Total, 09/2005–08/2006)

Dufour (Principal Investigator)

Alberta Livestock Industry Development Fund, Ontario Hatching Egg Producers Association, Saskatchewan Chicken Industry Development Fund, Poultry Industry Council, and Aviagen “The impact of Growth Pattern on Reproductive Efficiency in Male Broiler Breeders.” (\$201,009 Total, 05/2004-04/2006)

Robinson (Principal Investigator), Renema, Fasenko, **Dufour**, Wilson, Inglis, Zuidhof (Co-Investigators).

Johnson & Johnson, Focused Giving Program “Creation of an ectopic site to co-localize Sertoli cells and islets for treatment of diabetes.” (\$200,000 Total, 04/2001-03/2003)

Korbutt (Principal Investigator), **Dufour** (Co-Investigator).

HONORS AND AWARDS

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| 2025 | President's Excellence in Teaching Award |
| 2025-2028 | American Society of Andrology Board of Directors Member, elected |
| 2025 | Susan Talkmitt Motivator Award, TTU Center for the Integration of STEM Education & Research (CISER) |
| 2024-2025 | Dean Steve Berk Block Teaching Award for Anatomy, Histology & Embryology |
| 2024 | Recognized by University Medical Center Health System for teaching excellence |
| 2024 | Cover Photo, <i>Journal of Molecular Biology</i> |
| 2024 | SOM Dean's Basic Science Teaching Award – Year 1 |
| 2023 | GSBS Dean's Teaching Award, Graduate Medical Education Sciences |
| 2023 | Cover Photo, <i>Biomedicines</i> |
| 2023 | Women in Andrology Lecture. American Society for Andrology |
| 2021 | Dr. Yves Clermont Lecture in Reproduction at the 12th Annual Research Day of the McGill Centre for Research in Reproduction and Development |
| 2020 | President's Excellence in Team Teaching Award, SOM COA course |
| 2019 | President's Team Teaching Award, SOM FMAT1 course |
| 2018 | Cover Photo, <i>DNA and Cell Biology</i> |
| 2018 | Research highlighted in <i>Nature Medicine</i> |
| 2018 | Keynote Lecture, GSBS Student and Faculty Retreat |
| 2018 | Clinical Research Institute Award |
| 2017 | SOM Dean's Basic Science Teaching Award |
| 2017 | TTUHSC SOM Teaching Academy membership |
| 2017 | President-Elect, TTUHSC Chapter Phi Kappa Phi Honor Society |
| 2016-2022 | President Elect, President and Past President, TTUHSC Chapter Phi Kappa Phi Honor Society |
| 2016-2017 | Block Teaching Award for Clinically Oriented Anatomy |
| 2016-present | University Distinguished Professor |
| 2015-2018 | American Society of Andrology Executive Council Member, elected |
| 2016 | Plenary Speaker, Texas Forum for Reproductive Sciences |
| 2015-2016 | Executive Leader in Academic Medicine (ELAM) Program |
| 2016 | Mentor, Trainee-Mentor Luncheon, Society for the Study of Reproduction |
| 2015 | Research highlighted in Pulse, TTUHSC Alumni magazine |
| 2014 | Research highlighted in a commentary in <i>Biology of Reproduction</i> |
| 2014 | Top Rated Educator, School of Medicine Teaching Award |
| 2013 | Dr. Harry M. Weitlauf Anatomy Teaching Award |
| 2013 | Closing Remarks, GSBS Convocation Ceremony |
| 2013 | Outstanding Women Leader (OWL), West Texas Association for Women in Science |
| 2012 | Cover Photo, <i>Spermatogenesis</i> |
| 2012 | Mentor, Trainee-Mentor Luncheon, Society for the Study of Reproduction |
| 2011 | President's Young Investigator Award, TTUHSC |
| 2011 | Unsung Hero Award, CBB, TTUHSC |
| 2011 | Nominated for Young Andrologist Award, American Society of Andrology |
| 2010 | Recognized at Board of Regents Meeting as an “up-and-coming” Investigator, TTU System |
| 2008 | Cover Photo, <i>Cell Transplantation</i> |
| 2006-2009 | American Diabetes Association, Junior Faculty Award |
| 2005 | Travel Grant Award, The Transplantation Society |
| 2004 | Travel Award, British Columbia Research Institute for Children's and Women's |

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| | Health |
| 2004 | Canadian Trainee Travel Award, Society for the Study of Reproduction |
| | Canadian Institutes of Health Research |
| 2004 | Larry Ewing Memorial Trainee Travel Award, Society for the Study of Reproduction |
| 2004-2005 | Alberta Heritage Foundation for Medical Research Postdoctoral Fellowship |
| 2003-2004 | Alberta Heritage Foundation for Medical Research Postdoctoral Fellowship, Incentive Award |
| 2003-2004 | Canadian Institutes of Health Research Postdoctoral Fellowship |
| 2003 | Canadian Diabetes Association Postdoctoral Fellowship, Declined |
| 2003 | Western Regional Islet Study Group Travel Award |
| 2003 | Transplantation Society Travel Award, International Pancreas and Islet Transplant Association |
| 2001-2003 | Postdoctoral Fellowship, Juvenile Diabetes Research Foundation International |
| 2002 | Canadian Trainee Travel Award, Society for the Study of Reproduction |
| | Canadian Institutes of Health Research |
| 2002 | Larry Ewing Memorial Trainee Travel Award, Society for the Study of Reproduction |
| 2002 | Winner Abstract Competition at ImmuNet Retreat, Department of Immunology, University of Alberta |
| 2001-2003 | Honorary Izaak Walton Killam Memorial Postdoctoral Fellowship, University of Alberta |
| 2001 | Izaak Walton Killam Memorial Postdoctoral Fellowship, University of Alberta, Declined |
| 2001 | Lalor Foundation Postdoctoral Travel Fellowship, Society for the Study of Reproduction |
| 2001 | Larry Ewing Memorial Trainee Travel Award, Society for the Study of Reproduction |
| 2000 | First Place in Poster Competition at ImmuNet Retreat, Department of Immunology, University of Alberta |
| 1998 | Summer Graduate Research Assistantship, Washington State University |
| 1997 | Larry Ewing Memorial Trainee Travel Award, Society for the Study of Reproduction |
| 1997 | R. A. Nilan Travel Award, Washington State University |
| 1994 | President's Scholar |
| 1993 | Financial Aid Office Scholarship, Central Washington University |

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

| | |
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| 2022-present | American Society of Reproductive Immunology |
| 2020-present | American Association for Anatomy |
| 2015-2022 | American Heart Association |
| 2013-present | American Society of Transplantation |
| 2005-present | American Diabetes Association |
| 2003-present | International Pancreas and Islet Transplant Association |
| 2002-present | American Association for the Advancement of Science |
| 2002-present | American Society of Andrology |
| 1997-present | Endocrine Society |
| 1996-present | Society for the Study of Reproduction |
| 1993-present | Phi Kappa Phi Honor Society (Inaugural TTUHSC President Elect 2016-2018, President 2018-2020, Past President 2020-2022) |
| 1993-1994 | Beta Beta Beta Biological Honor Society (Secretary 1994) |

PROFESSIONAL SERVICE

Grant reviewer

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| 2025 | ZRG1 EMS-K (11) B Small Business: Reproductive Sciences NIH Study Section |
| 2024 | ZRG1 EMS-K (10) B Small Business: Endocrinology, Metabolism and Reproductive NIH Study Section |
| 2024 | Cellular, Molecular and Integrative Reproduction (CMIR) NIH Study Section |
| 2023 | SBIR ZRG1 EMS-S (10) B Endocrinology and Metabolic Systems NIH Study Section (Fall) |
| 2023 | SBIR ZRG1 EMS-K (10) B Metabolic and Reproductive Sciences NIH Study Section (Spring) |
| 2022 | Deutsche Forschungsgemeinschaft (German Research Foundation), Grant Reviewer |
| 2022 | The Dutch Duchenne Parent Project Grant Reviewer |
| 2018 | National Health and Medical Research Council Australia Grant Reviewer |
| 2017, 2018, 2019 | Agriculture and Food Research Initiative Animal Reproduction Program, NIFA, USDA |
| 2016 | National Health and Medical Research Council Australia Grant Reviewer |
| 2016 | The Italian Parent Project Onlus |
| 2016 | Telethon Italy Grant Reviewer |
| 2015 | University of Michigan Pilot/Feasibility Grant Proposal Reviewer |
| 2015, 2017, 2019, 2023 | Czech Science Foundation Grant Reviewer |
| 2014 | American Diabetes Association Research Grant Review Committee |
| 2014 | Collaborative Faculty Research Investment Program Grant Reviewer, Baylor University |
| 2013 | LaLor Foundation Postdoctoral Fellow Grant Reviewer |
| 2013 | Istituto Pasteur Fondazione Cenci Bolognetti Grant Reviewer |
| 2011, 2013 | Association Francaise contre les Myopathies Grant Reviewer |
| 2011 | Allard Foundation, Review Alberta Diabetes Institute Projects |
| 2011-2013 | American Diabetes Association Research Grant Review Committee |
| 2010-2011 | Telethon Italy Grant Reviewer |
| 2009-2010 | National Sciences and Engineering Research Council of Canada Discovery Grant Reviewer |
| 2009 | Emtech Bio Collaborative Seed Grant Proposal Reviewer, Emory University and Georgia Tech |
| 2008-2010 | American Diabetes Association Research Grant Review Committee |
| 2008-2009 | American Diabetes Association, Outstanding Scientific Achievement Award Selection Committee |
| 2006 | Southwest Cancer and Treatment Center Seed Grants, TTUHSC |

External Reviewer

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| 2022 | Department of Animal, Dairy and Veterinary Sciences, College of Agriculture and Applied Sciences, Utah State University, External Reviewer for promotion to Professor |
| 2022 | Department of Medical Education, School of Medicine, Texas Tech University Health Sciences Center, Reviewer for promotion to Professor |
| 2021 | Neuromuscular Sertoli cell Application Review, TREAT-NMD Advisory Committee for Therapeutics, United Kingdom |
| 2021 | Department of Animal, Dairy and Veterinary Sciences, School of Veterinary Medicine, Utah State University, External Reviewer for tenure and promotion to Associate Professor |
| 2021 | Department of Biology, College of Sciences, The University of Texas at San Antonio, External Reviewer for promotion to Full Professor |
| 2020 | Department of Animal, Dairy and Veterinary Sciences, School of Veterinary Medicine, Utah State University, External Reviewer for promotion to Research Associate Professor |
| 2019 | Department of Tropical Medicine, Medical Microbiology and Pharmacology, John A Burns School of Medicine, University of Hawaii at Manoa, External Reviewer for promotion to Full Professor |
| 2019 | Paul Foster School of Medicine, TTUHSC El Paso, External Post-tenure Reviewer |
| 2017 | Monash University and Justus Liebig University Giessen, External PhD Thesis Reviewer |
| 2015 | University of Calgary, External PhD Thesis Reviewer |

Editorial Board Member

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| 2025-present | <i>OBM Transplantation</i> |
| 2024-present | <i>Frontiers in Transplantation</i> |
| 2023-2025 | <i>Nutrients</i> |
| 2017-present | <i>Annals of Diabetes Research</i> |
| 2013-present | <i>International Journal of Stem Cell Research and Transplantation</i> |
| 2012-present | <i>Tissue Barriers</i> |
| 2011-2017 | <i>Spermatogenesis</i> |
| 2011-2015 | <i>Journal of Pediatric Biochemistry</i> (Review Board Member) |

Ad hoc Reviewer

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| 2003-2026 | <i>Acta Neurobiologiae Experimentalis, American Journal of Reproductive Immunology, Andrologia, Andrology, Annals of Diabetes Research, Archives of Biochemistry and Biophysics, Biocell, Biology of Reproduction, Biotechnology Progress, BMC Gastroenterology, Cancer Immunology and Immunotherapy, Cell & Bioscience, Cell and Tissue Research, Cell Biochemistry and Function, Cell Communication and Signaling, Cell Cycle, Cell Proliferation, Cells, Cell Transplantation, Clinical and Translational Medicine, Current Diabetes Reviews, Domestic Animal Endocrinology, Endocrine, Endocrinology, Endocrinology and Metabolism, Environmental Epigenetics, European Journal of Immunology, Experimental Biology and Medicine, Expert Opinion On Biological Therapy, Expert Review of Clinical Immunology, Exploration of Immunology, Frontiers in Cell</i> |
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and Developmental Biology, Frontiers in Endocrinology, Frontiers in Immunology, Human Reproduction, Immunology, International Journal of Case Reports and Therapeutic Studies, Iranian Journal of Applied Animal Science, Journal of Andrology, Journal of Cell and Animal Biology, Journal of Cell Science, Journal of Clinical Medicine, Journal of Endocrinology, Journal of Immunology, Journal of Reproductive Immunology, Journal of Visualized Experiments, Molecular and Cellular Endocrinology, Molecular Reproduction and Development, Mucosal Immunity Nutrients, PLOS Pathogens, PNAS, Reproduction, Research and Reports in Urology, Scientific Reports, Seminars in Cell and Developmental Biology, The FASEB Journal, Tissue Barriers, Tissue Engineering, Tissue Engineering-Methods, Tissue Engineering and Regenerative Medicine, Toxicological Sciences, Transgenic Research, Trends in Molecular Medicine, Trends in Pharmacological Sciences, Ultrastructural Pathology, Xenotransplantation

National Service

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| 2025-2028 | Board of Directors (elected) , American Society of Andrology |
| 2025 | Abstract Reviewer for the North American Testis Workshop |
| 2024-2025 | Texas Food Protection Task Force Committee Member |
| 2024-present | Consortium for Precision Medicine in Male Reproduction |
| 2024-present | Program Committee, North American Testis Workshop |
| 2024-2025 | Program Organizing Committee, Joint Congress of the American Society of Andrology (50 th annual meeting) and the International Society of Andrology (13 th quadrennial meeting) |
| 2022-present | North American Testis Workshop Executive Committee |
| 2024 | Session Chair, Session 4 Gene Regulation: 56 th Gene Families and Isozymes Conference |
| 2024 | Abstract Reviewer for the American Society of Andrology and the International Society of Andrology joint conference, 2025 |
| 2024 | Session Chair, Benchmark Lecture II: Immunobiology of the Testis (Dr. Andreas Meinhardt). XXVII North American Testis Workshop |
| 2023-2024 | Program Committee, North American Testis Workshop |
| 2022-present | Journal Committee, American Society of Andrology |
| 2022-2024 | Nominating Committee (elected), American Society of Andrology |
| 2019-2022 | Constitution and By-laws Committee, American Society of Andrology |
| 2020-2022 | Program Committee, 55 th Annual Meeting of the Society for the Study of Reproduction |
| 2021 | Platform Session Judge, 2021 Texas Forum for Reproductive Sciences |
| 2019-2021 | Nominating Committee (elected), American Society of Andrology |
| 2018-2021 | Program Committee, 54 th Annual Meeting of the Society for the Study of Reproduction (Co-Chair) |
| 2021 | Abstract Reviewer for the 54 th Annual Meeting of the Society for the Study of Reproduction |
| 2020-2020 | Program Committee, 53 rd Annual Meeting of the Society for the Study of Reproduction (Co-Chair) |

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| 2020 | Abstract Reviewer for the 53 rd Annual Meeting of the Society for the Study of Reproduction |
| 2018-2019 | Program Committee, 52 th Annual Meeting of the Society for the Study of Reproduction |
| 2019 | Session Chair, Session 14: In and Out of the Testis Through the Blood-Testis Barrier. 52 th Annual Meeting of the Society for the Study of Reproduction |
| 2019 | Abstract Reviewer for the 52 th Annual Meeting of the Society for the Study of Reproduction, Lead Reviewer |
| 2018 | Session Chair, Session 5: 52 nd Gene Families and Isozymes Conference |
| 2017-2019 | Program Committee. XXV North American Testis Workshop |
| 2017 | Session Chair, Session 17: Immunobiology of Male Reproductive Function. 50 th Annual Meeting of the Society for the Study of Reproduction |
| 2017 | Abstract Reviewer for the 50 th Annual Meeting of the Society for the Study of Reproduction |
| 2017-2018 | Pubic Affairs and Policy Committee, American Society of Andrology (Co-Chair 2017-2018) |
| 2017-2018 | Communication and Media Committee, American Society of Andrology (Co-Chair 2017-2018) |
| 2017 | Session Chair, Women in Andrology Lecture, 42 nd Annual American Society of Andrology Meeting |
| 2017 | Session Chair, Session III: Testis Development & Differentiation. XXIV North American Testis Workshop |
| 2017 | Abstract Reviewer for XXIV North American Testis Workshop |
| 2015-2018 | Executive Council Member (elected) , American Society of Andrology |
| 2016-2018 | Women in Andrology, American Society of Andrology (Chair 2016-2017; Past Chair 2017-2018) |
| 2016-2017 | Program Committee, 50 th Annual Meeting of the Society for the Study of Reproduction |
| 2006-2017 | Constitution and By-laws Committee, American Society of Andrology (Chair 2012-2015; Co-Chair 2011, 2015-2017) |
| 2016 | Abstract Reviewer for Testicular Function for the 49 th Annual Meeting of the Society for the Study of Reproduction |
| 2006-2014 | Bylaws Committee, Society for the Study of Reproduction (Chair 2011-2014) |
| 2014 | Abstract Reviewer for the Reproductive Toxicology: Male category for the 47 th Annual Meeting of the Society for the Study of Reproduction |
| 2010-2013 | Awards Committee, Society for the Study of Reproduction |
| 2012 | Abstract Reviewer for the Testis Platform Session for the 45 th Annual Meeting of the Society for the Study of Reproduction |
| 2006 | Session Chair, Gametes and Embryo Development Platform Session, 39 th Annual Meeting of the Society for the Study of Reproduction |
| 2006 | Abstract Reviewer for the Fertilization and Early Embryogenesis Platform Session for the 39 th Annual Meeting of the Society for the Study of Reproduction |
| 2005 | Abstract Reviewer for the Genomics and Proteomics Platform Session for the 38 th Annual Meeting of the Society for the Study of Reproduction |
| 2004 | AHFMR Postdoctoral Representative for AHFMR International Board of Review |

TTUHSC University Service

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|--------------|--|
| 2022-2024 | West Texas Geriatrics Consortium (2023-2024) (Garrison Coordinating Council 2022-2023) |
| 2020-present | External Affairs Council, Supporting Council Member |
| 2022 | Community Engagement President's Award Committee |
| 2021 | Faculty Senate Faculty Awards Task Force, Evaluator |
| 2021 | TTUHSC Limited Submission Grant Reviewer |
| 2018-2022 | Phi Kappa Phi Honor Society, TTUHSC Past-President 2020-2022 |
| 2018-2020 | Phi Kappa Phi Honor Society, TTUHSC President 2018-2020 |
| 2017-2018 | SVP for Research, Research Council, Committee Member |
| 2017-2018 | Clinical Research Institute, Seed Grant Selection Committee |
| 2017 | TTUHSC Senior Vice President for Research Search Committee |
| 2016-2018 | Phi Kappa Phi Honor Society, TTUHSC President-Elect 2016-2018 |
| 2016-2018 | TTUHSC Limited Submission Committee |
| 2014-2018 | TTUHSC Institutional Research Grant Review Committee |
| 2014-2015 | SVP for Research, Research Council, Strategic Planning Committee |
| 2014-2015 | SVP for Research Core Facility Subcommittee, Chair |
| 2014-2015 | TTUHSC CORE Laboratory Advisory Committee, Chair |
| 2014 | SVP for Research, Animal Care Cost Committee |
| 2013 | SVP for Research, Research Advisory Committee |
| 2012-2013 | TTUHSC Senior Vice President for Research Search Committee |
| 2011 | TTU Task Force on Undergraduate Research |
| 2011 | TTUHSC Preliminary Data Grant Reviewer |

School of Medicine

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|--------------|--|
| 2023-2025 | LCME Administrative Leadership and Infrastructure Subcommittee |
| 2021-present | Introduction to Research, SOM Medical Student Elective, Course Director |
| 2021-2022 | Department of Cell Physiology and Biophysics Chair Search Committee |
| 2020-2022 | System Disorders I, Endocrine Unit Director |
| 2019-2022 | Faculty Appointments Committee |
| 2019-2022 | American Physician Scientist Association TTUHSC SOM Student Organization, Advisor |
| 2018-2019 | SOM Medical Student Summer Research Program, Co-Director |
| 2018 | Center of Host-Microbe Interactions in Health and Disease Evaluation Committee, Chair |
| 2017-2018 | Center for Integrative Health Evaluation Committee, Chair |
| 2016 | Center for Super Heroes Evaluation Committee, Chair |
| 2016-2018 | Continuous Improvement Committee |
| 2016-present | Dean's ELUM Advisory Committee |
| 2015-2016 | Diabetes and Endocrinology Center of Excellence Evaluation Committee, Chair |
| 2015-2017 | LCME Task Force on Faculty Affairs and Development Committee |
| 2014-2015 | SimCentral Center of Excellence Evaluation Committee, Chair |
| 2014 | Center for Translational Neuroscience and Therapeutics Evaluation Committee, Chair |
| 2014-2017 | LCME Assessment Team |

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| 2014-2016 | Faculty Networking Group, SOM mentoring program, Facilitator |
| 2014-2015 | Faculty Forward Task Force, Clinical Research Committee |
| 2013-2014 | Endocrinology Faculty Appointment Search Committee |
| 2013-2015 | Anesthesiology Faculty Search Committee |
| 2013 | Department of Pharmacology and Neuroscience Chair Search Committee |
| 2013 | Department of Cell Biology and Biochemistry Chair Search Committee |
| 2012-2018 | SOM Medical Student Summer Research Program, Director |
| 2012-2018 | Faculty Council Executive Committee, Ex-Officio |
| 2012-2018 | Faculty Research Committee, Ex-Officio |
| 2012 | Burn Research Center of Excellence Evaluation Committee, Chair |
| 2009 | LCME Site Visit, Junior Faculty Representative |
| 2008 | Permian Basin Diabetes Center Evaluation Committee |
| 2006 | Department of Physiology Chair Search Committee |
| 2006 | School of Medicine Seed Grants, TTUHSC |

Graduate School of Biomedical Sciences

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| 2013-present | Graduate Medical Education Sciences Program Committee, Associate Program Advisor, 2020-2023 |
| 2021-2023 | GSBS Graduate Council Faculty Chair |
| 2020-2023 | Graduate Council, GMES Representative |
| 2020 | Dean's Representative, Bojana Ristic, PhD defense |
| 2019 | Dean's Representative, C. Riccay Elizondo, PhD defense |
| 2013 | GSBS Dean Scholar Selection Committee |
| 2012 | GSBS Dean Search Committee |
| 2010-2012 | GSBS Graduate Faculty and Graduate Council Secretary |
| 2010-2011 | GSBS Dean Search Committee |
| 2010-2012 | GSBS Graduate Student Admissions Committee |
| 2009-2010 | Microbiology Program Review Committee |
| 2009 | MD/PhD Applicant Interviewer |
| 2009 | Dean's Representative, Heather Schultz, MS defense |
| 2008-2013 | Graduate Council, CMB Representative |
| 2007-2008, 2010 | Outstanding Graduate Student Selection Committee |
| 2005-2007, 2009- | Poster Judge for the Annual Student Research Week |
| 2012, 2014-2022 | at TTUHSC |
| 2005 | Physiology Preliminary Exam, Outside Grader, August 2005 |
| 2005 | Selection Committee, Distinguished Alumni Awards |

Departmental Service

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| 2022-2023 | CBB Mentoring Committee |
| 2009-2013 | CBB Seminar Series and Reproductive Seminar Series Coordinator |
| 2008-2013 | CMB Concentration Committee, Associate Program Advisor |
| 2007-2013 | Stipend Committee, Cell Biology and Biochemistry |
| 2007-2011 | Executive Committee, Cell Biology and Biochemistry |
| 2007-2011 | CBB Annual Departmental Party Coordinator |
| 2007-2010 | CBB Computer User Committee |
| 2005-2014 | Equipment Committee, Cell Biology and Biochemistry |
| 2006 | CBB Recruitment Brochure Committee |
| 2005-2006 | CBB Webpage Redesign Committee |

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| 2005, 2007 | Poster Judge for the Cell Biology and Biochemistry Student Research Day at Texas Tech University Health Sciences Center |
| Other Service | |
| 2025-present | Institute for One Health and Innovation Research Advisory Committee |
| 2025-present | Center of Excellence in Obesity and Cardiometabolic Research, Co-Director , TTU System |
| 2019-2025 | Obesity Research Institute, Associate Director , TTU System Organizer ORI Webinar “At the Intersection of Two Pandemics: COVID-19 & Obesity, July 16, 2020 Organizer ORI Webinar “Current Topics in Cancer Research” November 20, 2020 Organizer ORI 6 th Annual Meeting May 12, 2021 Organizer ORI Webinar “Human-Animal Interactions in Health & Disease” November 15, 2021 Organizer ORI Webinar “A Celebration of Women’s Health for Women’s Day 2022” March 8, 2022 Organizer ORI 7 th Annual Meeting May 11, 2022 Organizer ORI Fall Webinar series on Sustainable Agriculture & Nutrition Security, Fall 2022 Organizer ORI Webinar “A Celebration of Women’s Health for Women’s Day 2023” March 8, 2023 Organizer ORI 8 th Annual Meeting May 3, 2023 Organizer ORI Fall Webinar series on Neuroscience & Obesity, Fall 2023 Moderator One Health Innovation Workshop on Metabolic Health, December 1, 2023 Organizer ORI Webinar “Women’s Health Webinar” March 8, 2024 Organizer ORI 9 th Annual Meeting May 1, 2024 Organizer ORI Fall Webinar series, Balancing the Scale: Navigating the complex interplay of weight loss medications, timed eating, and physical activity, Fall 2024 Organizer ORI “Women’s Health Webinar” March 7, 2025 Organizer ORI 10 th Annual Meeting May 7, 2025 |
| 2019-2025 | Obesity Research Institute, Advisory Board, TTU System |
| 2019-2025 | Obesity Research Institute, Strategic Planning Committee, TTU System |
| 2020 | Department of Nutritional Sciences, Research Assistant/Associate Professor Search Committee Member, TTU |
| 2020 | American Diabetes Association, Lubbock Board Member |
| 2014-2019 | Obesity Research Cluster, Advisory Board, TTU System |
| 2013-2019 | Obesity Research Cluster, Strategic Planning Committee, TTU System |
| 2019-2020 | American Diabetes Association, Camp NoHiLo Volunteer |
| 2005-2020 | American Diabetes Association, Family Resource Network Volunteer |
| 2008-2017 | American Diabetes Association, Lubbock Board Member |
| 2007-2020 | American Diabetes Association, Step Out Walk for Diabetes (Team Captain 2007-2013, 2016, 2020) |
| 2010 | American Diabetes Association, Tour de Cure Bike Ride (Team Captain 2010) |
| 2005-2006 | American Diabetes Association, Walk for Diabetes (Team Captain 2005) |
| 2016 | 2016 Gender-Specific Medicine & Women’s Health Symposium Planning |

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| | Committee |
| 2002 | Immunet Retreat Selection Committee, Department of Immunology, University of Alberta |
| 1998-1999 | Graduate Student Representative, Department of Genetics and Cell Biology, Washington State University |
| 1996-1997 | Invited Lecturers Committee, Department of Genetics and Cell Biology, Washington State University |

SCIENTIFIC CONSULTANT

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| 2006-2013 | Scientific Advisory Board, Sernova Corp. |
| 1999-2005 | Sertoli Technologies, Inc. |
| 2004 | Alberta Heritage Foundation for Medical Research Review Board |
| 2000-2003 | Johnson & Johnson |

TEACHING EXPERIENCE

Educational Program Development

Sex and Gender-Based Medicine Education Curriculum: Interprofessional Web-based Student Module; “Diabetes” 2014 (access at www.sexandgenderhealth.org)

Texas Tech University, Lubbock, TX:

Chronic Disease Course – Diabetes/Obesity: Type 1 Diabetes and Islet Transplantation Lecture, Fall 2022

Chronic Disease Course – Diabetes, Nutrition: Diabetes, Islet Transplantation and Immune Privileged Sertoli Cells Lecture, Fall 2020

Science It’s a Girl Thing, Heart ultrasonography, (TTUHSC Simulation Center), Summer 2019

Lecturer, Texas Tech University Health Sciences Center, Lubbock, TX:

Clinically Oriented Anatomy, MSCI5201, Lab Section 1 (Back, Upper Limb, Thorax) – Fall 2010-2025

Clinically Oriented Anatomy, MSCI5201, Upper Extremity Lecture – Fall 2009-2025

Clinically Oriented Anatomy, MSCI5201, Unit 2 (Thyroid Ultrasound) – Fall 2019-2025

Clinically Oriented Anatomy, MSCI5201, Lab Section 3 (Abdomen, Pelvis/Perineum, Lower Limb) – Fall 2009-2025

Clinically Oriented Anatomy, MSCI5201, Muscles and Locomotion Lecture – Fall 2019-2025

FMAT, Endocrinology Block, FMAT6201, Diabetes – Summer 2011-2025

Organ Systems 5, Diabetes and Transplantation Immunology Lectures, Diabetes Case Studies, Transplantation Immunology Cases – Spring 2023-2026

P3 Small Group, Facilitator, 2018-2019, 2019-2020, 2020-2021, 2021-2022, 2022-2023, 2023-2024, 2024-2025, 2025-2026

Culinary Medicine Elective, SOM, Diabetes & Nutrition, Fall 2020-2025

Introduction to Research Elective, SOM, Overview of types of research, Fall 2021, 2022, 2024, 2025

Introduction to Research Elective, SOM, Project Development (Mentorship and Getting Started, hypothesis/objectives), Fall 2021, 2022, 2025

Introduction to Research Elective, SOM, Manuscript Preparation and Journal Selection, Spring 2025-2026

Special Topics, GBCM 5213, The nadventures of Sertoli cell immune regulation. Spring 2025, Course Director

Organ Systems 1, Facilitator for cardiac ultrasound – 2022

Organ Systems 3, Small group sessions on: Cases in Rheumatology – Fall 2022

Systems Disorders I, MSCII6104, Pancreatic Islets and Diabetes Review – Spring 2015-2022

Structure and Function of Major Organ Systems, Endocrine Section, Pancreatic Islets, Metabolism and Diabetes – Spring 2011-2021

Systems Disorders I, MSCII6013, Ultrasound facilitator for extended focused assessment by sonography of trauma (eFAST procedure) – Spring 2018, 2019, 2020

Systems Disorders I, MSCII6013 Simulation: Acute cardiovascular distress – Spring 2019, 2020

Systems Disorders I, MSCII6013 Facilitator for auscultation of heart sounds – Spring 2020

Structure and Function of Major Organ Systems, Cardio Section, Facilitator for cardiac ultrasound and auscultation of heart sounds – Spring 2019, 2020

Immunity, Multisystems Disorders and Cancer, Transplantation Immunology – Fall 2018-2021

Immunity, Multisystems Disorders and Cancer, Small group sessions on: Cases in Rheumatology and Unit 3 Review – Fall 2021

Select Topics in Immunology/Infectious Diseases, GIID 5281, Sertoli cell nadventures in testis immune privilege and transplantation. – Spring 2021, Course Director

Select Topics in Immunology/Infectious Diseases, GIID 5381, Sertoli cell immune regulation and relevance to diabetes. – Spring 2020 Course Director

The Human Microbiome in Health and Disease, GBTC 5210, The microbiome and diabetes. – Spring 2018-2022

Distinction in Medical Research, SOM, Research question and hypothesis, Spring 2022

The Diabetes Outreach and Counseling (DOC) club, SOM, Diabetes Mellitus, Fall 2021-2023

Host Defense, Transplantation Immunology – Spring 2012-2017

Molecular and Cellular Immunology, GMIB5340 – Spring 2007-2012, 2014, 2015

Structure and Function of Major Organ Systems, GI/Nutrition Section, Pancreatic Islets – Spring 2007-2010

P3 Honors Project, Faculty Mentor – 2013-2015, 2021-2024

Early Clinical Experience I Honors Project, Faculty Mentor – Spring 2009

Special Topics, GANM 5313- Fall 2008 (Cloning), Spring 2009 (Histology)

CBB Seminar Review Committee, GCMB 7101, Spring 2010-2013

CBB Seminar Evaluator, GANM 7101, Spring 2008

Introduction to Biotechnology, GBTC/BTEC 6301 - Fall 2005

Lecturer, University of Alberta, Edmonton, Alberta:

Surgery 520 - Fall 2004

Lecturer, Washington State University, Pullman, Washington:

General Genetics Laboratory, GenCB 402 - Fall 1998

General Genetics, GenCB 301 - Spring 1999

Teaching Assistant, Washington State University, Pullman, Washington:

General Genetics Laboratory, GenCB 402 - Fall 1998

General Genetics, GenCB 301 - Summer 1997, Fall 1997, Spring 1998, Spring 1999

Introductory Biology, Bio S 104 - Spring 1996

General Biology, Bio S 102 - Fall 1995

Chemistry Related to Live Sciences, Chem 102 - Spring 1995

Introduction to Chemistry, Chem 101 - Fall 1994

Teaching Assistant, Central Washington University, Ellensburg, Washington:

Introduction to Chemistry, Chem 112 - Winter 1994

Introduction to Chemistry, Chem 111 - Fall 1992, Winter, Spring, Fall 1993

STUDENTS SUPERVISED

Graduate Students

| | |
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| 2023-present | Graduate Student (PhD), Alexis Rodriguez, Wright Family ASCO Foundation Endowed Presidential Scholarship, 2022; Oral Presenter, Texas Forum for Reproductive Sciences Annual Meeting, 2024; Second Place Obesity Research Institute Poster Competition, TTU System, 2024; 2024 Dean's Scholar Recipient, TTUHSC Graduate School of Biomedical Sciences; Second Place, GSBS Graduate Student, TTUS Obesity Research Institute Poster Competition, 2025; Oral Presenter, North American Testis Workshop; Flashtalk, American Society of Andrology. |
| 2025-present | Graduate Medical Sciences Graduate Student (MS), Nathan Hoggatt |
| 2023-2025 | Graduate Medical Sciences Graduate Student (MS), Brady Miller, Student Lightning Talk Speaker, TTUHSC Student Research Week, 2025; First Place, GSBS Graduate Student, TTUS Obesity Research Institute Poster Competition, 2025. |
| | Master's Project: Addressing Diabetes Early: Integrating Comprehensive Education Across Preclinical Organ Systems. |
| 2023-2025 | Graduate Medical Sciences Graduate Student (MS), Megan McCoy, Anatomy Connected Student Travel Award 2025. |
| | Master's Project: Reel Quick Reviews: From Distraction to Development. |
| 2019-2023 | Graduate Student (PhD), Rachel Washburn, Wright Family ASCO Foundation Endowed Presidential Scholarship, 2019; SALUTE Gold Tier Scholarship, 2019; Second Place First and Second Year Graduate Student Division, TTUHSC Student Research Week Poster Competition, 2020; Mary Lou Clements Award, 2020; Third Place First and Second Year Graduate Student Division, TTUHSC Student Research Week Poster Competition, 2021; Mary Lou Clements Award, 2021; 2021 GSBS Dean's Scholar Awardee; Student Speaker, TTUHSC Student Research Week, 2022; Phi Kappa Phi Love of Learning Award, 2022; Mary Lou Clements Award, 2022; Phi Kappa Phi Dissertation Fellowship, 2023. |
| | PhD Dissertation: The Sertoli Cell-Complement Landscape In A Graft Protective Environment: Preventing Transplant Rejection One Testicle At A Time. |
| 2019-2023 | Graduate Student (PhD), Taylor Hibler, Mary Lou Clements Award, 2020; Second Place in the Third and Fourth Year Graduate Student Division, TTUHSC Student Research Week Poster Competition, 2021; 2021 American Association of Immunologists Trainee Abstract Award; Second Place 2021 |

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| | Texas Forum for Reproductive Sciences Platform Competition Award; Mary Lou Clements Award, 2021; Second Place Third and Fourth Year Graduate Student Division, TTUHSC Student Research Week Poster Competition, 2022; 2022 American Association of Immunologists Trainee Poster Award; Mary Lou Clements Award, 2022. PhD Dissertation: A Treg A Day Keeps Rejection At Bay: The Role Of Regulatory T Cells And Dendritic Cells In The Immunoprotection Of Sertoli Cell Allografts At Early Timepoints. |
| 2022-2023 | Graduate Medical Sciences Graduate Student (MS), Emily Bernstein, Sandy C. Marks Jr. Poster Award (Med Ed Category), 40th Annual Meeting of the American Association of Clinical Anatomists, 2023. Master's Project: Connecting the layers: Enhancing Medical Students Knowledge of Male and Female Perineum Anatomy. |
| 2020-2021 | Graduate Medical Sciences Graduate Student (MS), Kenneth Hardy Master's Project: The Effectiveness of High Yield Post-Lecture Quizzes on Preclinical Medical Student Study Efficiency and Stress Reduction. |
| 2020-2021 | Graduate Medical Sciences Graduate Student (MS), Riley Reich Master's Project: Focusing Medical Student Learning by Adding Lecture-Based Questions and a High-Yield Fact Sheets in Respiratory Physiology. |
| 2020-2021 | Graduate Medical Sciences Graduate Student (MS), Austin Rodgers Master's Project: Medical Education Through Differential Diagnosis: An Algorithmic Approach to Instructing Medical Students. |
| 2019-2020 | Graduate Medical Sciences Graduate Student (MS), Kenna Provost Master's Project: Studying the Effectiveness of "Bite-Size" Review Modules on Gastrointestinal Physiology Concepts in Medical School. |
| 2019-2020 | Graduate Medical Sciences Graduate Student (MS), Roald Credo Master's Project: Efficacy of learning modules with video clinical vignettes on diabetes for first year medical students. |
| 2015-2019 | Graduate Student (MD/PhD), Karl Mueller, Poster selected for display at TTUHSC Student Research Week Banquet, 2016; Student Speaker, TTUHSC Student Research Week, 2019. PhD Dissertation: Using genetically engineered immune privileged Sertoli cells secreted C-peptide to treat endothelial cell metabolic imbalances in hyperglycemic environments. |
| 2015-2019 | Graduate Student (MD/PhD), Kandis Wright, Third Place Medical Student Category, Student Research Week Poster Competition, 2015; First Place Sex- and Gender-Based Medicine and Women's Health Symposium Poster Competition, 2015; Third Place Obesity Research Cluster Poster Competition, TTU, 2016; Mary Lou Clements Award, 2016. Platform Presentation, Society for Study of Reproduction, San Diego, California, 2016; Student Speaker, TTUHSC Student Research Week, 2017; Platform Presentation, Experimental Biology Meeting, Chicago, Illinois, 2017; Platform Presentation, Society for Study of Reproduction, Washington, D.C., 2017; GSBS Dean's Scholar Award, 2017; Phi Kappa Phi National Dissertation Fellowship, 2018; Best Poster Southern Regional Conference of the American Physician Scientist Association, 2018; Outstanding Student in Biochemistry Molecular and Cellular Biology, 2019; Student Speaker, TTUHSC Student Research Week, 2020; Second Place Third and Fourth Year Medical Student Division, TTUHSC Student Research Week Poster Competition, 2020. |

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| | PhD Dissertation: Macrophages and Tregs are important mediators of allogeneic and xenogeneic Sertoli cell survival. |
| 2018-2019 | Graduate Medical Sciences Graduate Student (MS), Rony Diaz Master's Project: Interactive online module to review topics of diabetes for the USMLE Step 1 exam. |
| 2012-2016 | Graduate Student (PhD), Lea Ann Thompson, Awarded Doctor of Philosophy Degree in Cell and Molecular Biology; AT&T Chancellor's Award 2012-2016; Second Place Basic Science Category, LWBWHI, Gender Specific Women's Health Symposium, TTUHSC, 2012; First Place, LWBWHI, Gender Specific Women's Health Symposium, TTUHSC, 2013; Awarded American Heart Association Predoctoral Fellowship, 2015-2016. PhD Dissertation: Immune privileged Sertoli cells: Vehicles for the delivery of insulin. |
| 2014-2015 | Graduate Medical Sciences Graduate Student (MS), Lillian (Ene) Cole, Awarded Master of Science Degree in Graduate Medical Sciences; Dean's Recognition Award, 2015. Second Place Graduate Medical Education Category, Student Research Week Poster Competition, 2015. Master's Project: Improving the effectiveness of USMLE Step 1 preparation through the development of a one-stop preparatory module on the pancreas and diabetes. |
| 2009-2013 | Graduate Student (PhD), Payal Mital, Awarded Doctor of Philosophy Degree in Cell and Molecular Biology; Platform Presentation, Cell Transplantation Society and International Xenotransplantation Association Joint Conference, Miami, 2011; Third Place, Health Sciences Category 1, 10 th Annual Graduate Student Research Poster Competition, Texas Tech University, 2011; Phonathon/Thankathon Scholarship, 2011; First Place, Basic Science Category, 11 th Annual Graduate Student Research Poster Competition, Texas Tech University, 2012; Platform Presentation and Travel Award, Testis Workshop, San Antonio, 2013 PhD Dissertation: A mechanisms for Sertoli cell survival of xenotransplantation: modulating the macrophages from cytotoxic to regulatory. |
| 2008-2012 | Graduate Student (PhD), Gurvinder Kaur, Awarded Doctor of Philosophy Degree in Cell and Molecular Biology; Dean Finalist Abstract, Student Research Week, 2009; First Place, Basic Science Category 1, 9 th Annual Graduate Student Research Poster Competition, Texas Tech University, 2010 and Poster selected for display at Plains Capital Bank, 2010; Platform Presentation, Society for Study of Reproduction, Milwaukee, Wisconsin, 2010; Lalor Award, Society for Study of Reproduction, Milwaukee, Wisconsin, 2010; Mary Lou Clements Award, 2010; Cell Transplantation Society Travel Award (only 5 awards given), 2011; Platform Presentation, Cell Transplantation Society and International Xenotransplantation Association Joint Conference, Miami, 2011; First Place Basic Science Senior Category, Student Research Week Poster Competition, 2012; Outstanding Graduate Student Award, 2013 PhD Dissertation: Immune Privileged Sertoli cells survive allotransplantation by inhibiting adaptive immune response. |
| 2011-2012 | Graduate Student (MS), Lea Ann Thompson, Awarded Master of Science Degree in Cell and Molecular Biology |

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| 2008-2009 | Graduate Student (MS), Payal Mital, Awarded Master of Science Degree in Biotechnology |
| 2007-2009 | Graduate Student (MD/PhD), James Stocks |
| 2007-2008 | Graduate Student (MS), Saroja Putrevu, Awarded Master of Science Degree in Cell and Molecular Biology, Dean's Recognition Award, 2009. Master's Thesis: Investigation of a Sertoli cell line, MSC-1, to elucidate the immune-privileged properties of Sertoli cells. |
| 2005-2006 | Graduate Student (PhD), Sherry Swift |

Medical Students

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| 2026 | MD student, Mentor, Tristin Chaudhury Project: Point-of-care lung ultrasound for the evaluation of dyspnea in internal medicine. |
| 2024-present | MD/PhD Student, Jasmine Dushime |
| 2022-present | Medical Student Research Assistant (MD) 2023-present, Graduate Medical Education Sciences Graduate Student (MS) 2022-2023, Hannah Curtis |
| 2021-2022 | Medical Student Research Assistant (MD), Lewis Kelly |
| 2021-2022 | Medical Student Research Assistant (MD), Anna Sabu-Kurian |
| 2020 | Medical Student Research Assistant (MD), Arham Siddiqui |
| 2019-2020 | Medical Student Research Assistant (MD), Michelle Harris |
| 2018-2021 | Medical Student Research Assistant (MD), Tanir Moreno |
| 2018-2019 | Medical Student Research Assistant (MD), Bhargavesh Gottam |
| 2017-2018 | Medical Student Research Assistant (MD), Alan Gonzalez |
| 2016 | Medical Student Research Assistant (MD), Colton McCoy |
| 2015-2017 | Medical Student Research Assistant (MD), Lillian (Ene) Cole, Texas Medical Association Minority Scholarship, 2015. |
| 2015-2016 | Medical Student Research Assistant (MD), Brian Mallory |
| 2015-2016 | Medical Student Research Assistant (MD), Scott Vadala |
| 2013-2015 | Medical Student Research Assistant (MD), Karl Mueller |
| 2012-2013 | Medical Student Research Assistant and Medical Student Summer Research Fellowship (MD), Joanne Thambuswamy |
| 2012-2013 | Medical Student Research Assistant and Medical Student Summer Research Fellowship (MD), Avinash Alexander |
| 2011-2012 | Medical Student Volunteer and Medical Student Summer Research Fellowship (MD), William Barret Bowlin |
| 2009-2010 | Medical Student Volunteer and Research Assistant (MD), Peter Uong |
| 2008-2010 | Medical Student Volunteer and Medical Student Summer Research Fellowship (MD/MBA), William McCunniff, Buessler Award 2012 |

Rotation Students

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| 2024, 2025 | MD/PhD Rotations Student, Jasmine Dushime |
| 2022 | PhD Rotation Student, Iffat Jahan |
| 2022 | PhD Rotation Student, Alexis Rodriguez |
| 2019 | PhD Rotation Student, Rachel Washburn |
| 2019 | PhD Rotation Student, Emily Vanderpool |
| 2019 | PhD Rotation Student, Taylor Hibler |
| 2017 | PhD Rotation Student, Josue Enriquez |
| 2017 | MD/PhD Rotation Student, Rebecca Gabrlska |

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| 2014 | MD/PhD Rotation Student, Kandis Wright |
| Fall 2014 | Biotechnology MS Rotation Student, Zeno Yeates |
| Spring 2014 | Biotechnology MS Rotation Student, Jasper Nyandoto |
| Fall 2013 | Biotechnology MS Rotation Student, Sangama Vemulapally |
| Spring 2011 | MS Rotation Student, Lea Ann Thompson |
| Fall 2009 | Biotechnology MS Rotation Student, Payal Mital |
| Summer 2008 | PhD Rotation Student, Gurvinder Kaur |
| Summer 2007 | PhD Rotation Student, Saroja Putrevu |
| Fall 2006 | PhD Rotation Student, Tammy Carter |
| Summer 2006 | MD/PhD Rotation Student, James Stocks |
| Winter 2006 | MS Rotation Student, Aya Ito |
| Fall 2005 | PhD Rotation Student, Sherry Swift |

Undergraduate Students

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| 2025-present | TrUE Scholar, Abid Miah |
| 2024-2025 | USDA REEU Scholar, CISER Undergraduate Research Scholar, Elizabeth Jeffery, First Place Undergraduate Division, TTUHSC Student Research Week Poster Competition, 2025. First Place Undergraduate Division, TTUS Obesity Research Institute Poster Competition, 2025. |
| 2023 | Undergraduate Thesis: Wnt signaling and immune regulation in Sertoli cells. |
| 2022-2023 | UTSA NIH Summer Undergraduate Research Student, Mariana Suarez-Martinez |
| 2022 | TTU Undergraduate Student, Sarah White |
| 2022 | Undergraduate Volunteer, Bridger Sparks (University of Wyoming, National Bio-Agro Defense Facility National Laboratory Training Program Fellowship) |
| 2022 | SABR student, Deanna Hopkins |
| 2021 | SABR student, Alissa Landefeld |
| 2019 | SABR student, Nabeela Manal |
| 2018-2019 | TTU Undergraduate Student Scholar, Taru Bharadwaj |
| 2017-2019 | TTU Undergraduate Student Scholar, Hannah Daniel |
| | Undergraduate Thesis: The beneficial effects of tocotrienol in a type 2 diabetes model. |
| 2017 | TTU Undergraduate Student Research Assistant, Cimron Kashyap |
| 2017 | TTU Undergraduate Student Research Assistant, Karishma Kashyap |
| 2014-2018 | TTU Undergraduate Student Scholar, Hannah Robin Greer, First Place Undergraduate Division, Student Research Week Poster Competition, 2017. Presented at the Texas Undergraduate Research Day at the Capital in Austin, 2017. |
| | Undergraduate Thesis: Effects of early type 2 diabetes and obesity on testicular health in mice. |
| 2014 | Wind Engineering and Medicine Summer Student, Nelson Ugobor |
| 2013-2016 | HHMI Undergraduate Student Research Assistant and SABR Student, Rachel Dziuk, presented at the Texas Undergraduate Research Day at the Capital in Austin, 2015; The Julie Isom WE Fund Research Presentation Award (April 2015: TTU University Research Conference); Dr. Richard Blanton Endowment for Undergraduate Researchers (April 2015: TTU CISER Program); Barry Goldwater Honorable Mention, 2015; Christopher Rodrigues Research Presentation Award (October 2015: TTU Research Forum 2015); The Directors Award, CISER SSO (May 2016: TTU CISER Program); Dr. Allie Clinton-Smith Scholarship for Women in Sciences (March 2016: TTU CISER Program); Dr. Richard L. Blanton |

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| | Endowment for Undergraduate Researchers (March 2016: TTU CISER Program) |
| | Undergraduate Thesis: Loss of cell-cell contact induces Sertoli cells to transiently reinitiate proliferation after ectopic transplantation. |
| 2012-2014 | NIH Bridges Program Undergraduate Student Research Assistant, Nick Paniagua |
| 2012-2013 | Undergraduate Student Research Assistant, Cullen Rudine |
| 2011-2012 | SABR student, Kandis Wright |
| 2011 | HHMI Undergraduate Student Research Assistant, Christina Rodriguez |
| 2010-2012 | Undergraduate Microbiology Student Research Assistant, Matthew Saadidin, First Place Undergraduate Division, Student Research Week Poster Competition, 2011 |
| 2007 | SABR Student, Allison Eudy |
| 2005-2006 | Undergraduate Biochemistry Student Research Assistant and SABR Student, Katelyn Halley |
| 2005 | SABR Student, Tanuja Majeti |
| 2005 | SABR Student, Meredith Hamilton |

Graduate Student Advisory Committee Member

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| 2026-present | Zheyun Niu, PhD Thesis Committee Member |
| 2026-present | Courtney Mayo, PhD Thesis Committee Member |
| 2025-present | Garrett Welch, PhD Thesis Committee Member |
| 2025-present | Anthony Rudd, PhD Thesis Committee Member |
| 2024-present | Sofia Altamirano, PhD Thesis Committee Member |
| 2024-2025 | Sara Ranjbar, PhD Thesis Committee Member |
| 2023-2025 | Benjamin Madura, PhD Thesis Committee Member |
| 2023-present | Iffat Jahan, PhD Thesis Committee Member |
| 2023-present | Marjan Ramezan, PhD Thesis Committee Member |
| 2023-present | Hamed Khedmatgozar, PhD Thesis Committee Member |
| 2023-present | Farzana Poppy, PhD Thesis Committee Member |
| 2023-2025 | Ganesh Acharya, PhD Thesis Committee Member |
| 2023-present | Alexis Rodriguez, PhD Thesis Committee Chairperson |
| 2022-2025 | Flavia Sardela de Miranda, PhD Thesis Committee Member |
| 2022-2025 | Geetha Boligala, PhD Thesis Committee Member |
| 2022-2024 | Marilyn Mathews, PhD Thesis Committee Member |
| 2021-2024 | Dalia Martinez-Marin, PhD Thesis Committee Member |
| 2021-2024 | Shadi Nejat, PhD Thesis Committee Member |
| 2020-2024 | Sarah Miller, PhD Thesis Committee Member (Qualifying Exam Chair) |
| 2019-2023 | Rachel Washburn, PhD Thesis Committee Chairperson |
| 2019-2020 | Rownock Afruza, PhD Thesis Committee Member |
| 2019-2021 | Bimba Goonapienewala, Thesis Committee Member |
| 2019-2023 | Taylor Hibler, PhD Thesis Committee Chairperson |
| 2018-2021 | Jonathan Kopel, PhD Thesis Committee Member |
| 2018-2019 | Saju Akheruzzaman, PhD Thesis Committee Member |
| 2017-2020 | Kalhara Menikdiwela, PhD Thesis Committee Member |
| 2017-2019 | Megan Barnett, MS Thesis Committee Member |
| 2015-2019 | Kandis Wright, MD/PhD Thesis Committee Chairperson |
| 2015-2019 | Karl Mueller, MD/PhD Thesis Committee Chairperson |
| 2015-2018 | Yujiao Zu, PhD Thesis Committee Member |
| 2015-2018 | Zahid Khurshidul, PhD Thesis Committee Member |

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| 2014-2017 | Cynthia Reinoso, PhD Thesis Committee Member |
| 2013-2015 | Michael Rogowski, PhD Thesis Committee Member |
| 2013-2016 | Shannon Dunn, PhD Thesis Committee Member |
| 2012-2016 | Lea Ann Thompson, PhD Thesis Committee Chairperson |
| 2012-2016 | Eric Edwards, PhD Thesis Committee Member |
| 2012-2017 | Monish Mokena, PhD Thesis Committee Member |
| 2012-2018 | Sumit Mukherjee, PhD Thesis Committee Member |
| 2011-2015 | Jill Wright, PhD Thesis Committee Member |
| 2011-2012 | Lea Ann Thompson, MS Thesis Committee Chairperson |
| 2010-2013 | Chase Waters, PhD Thesis Committee Member |
| 2009-2013 | Payal Mital, PhD Thesis Committee Chairperson |
| 2009-2011 | Jeffrey McDonald, MS Thesis Committee Member |
| 2008-2012 | Gurvinder Kaur, PhD Thesis Committee Chairperson |
| 2006-2009 | Aruna Jahoor, MD/PhD Thesis Committee Member |
| 2008-2009 | Neha Kumari, MS Thesis Committee Member |
| 2008 | Patrick Dennis, PhD Thesis Committee Member |
| 2007-2009 | James Stocks, MD/PhD Thesis Committee Chairperson |
| 2007-2008 | Saroja Putrevu, MS Thesis Committee Chairperson |
| 2006-2007 | Aya Ito, MS Thesis Committee Member |
| 2006-2007 | Yi Seok Chang, MS Thesis Committee Member |
| 2005-2006 | Sherry Swift, PhD Thesis Committee Chairperson |

Technicians

| | |
|--------------|-------------------|
| 2017-present | Jonathan Miranda |
| 2017-2019 | Bilkis Mitu |
| 2016-2018 | Roger Quintana |
| 2014-2015 | Jennifer Bright |
| 2010-2013 | Mithun Pasham, MS |
| 2006-2009 | Emily Dyson, MS |
| 2006-2008 | Patricia Frisbie |
| 2007-2008 | Katelyn Halley |
| 2005-2006 | Brent Fossum |

Postdoctoral Fellows/Senior Research Associate

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| 2023-present | Rachel Babcock, PhD, First Place Postdoctoral Division, TTUS Obesity Research Institute Poster Competition, 2024; Abstract Travel Award, North Carolina RNA Society Symposium, 2024; First Place Postdoctoral Division, TTUS Obesity Research Institute Poster Competition, 2025; Flashtalk, American Society of Andrology. |
| 2023-2025 | Joao Pedro Torres Guimaraes, PhD |
| 2023-2024 | Anand Chakroborty, PhD |
| 2012-2016 | Gurvinder Kaur, PhD, First Place Postdoctoral Fellow Category, Student Research Week Poster Competition, 2013; Platform Presentation, Society for Study of Reproduction, Grand Rapids, Michigan, 2014 (Postdoctoral Fellow 2012-2015; Senior Research Associate 2015-2016). |

Visiting Professor

2013, 2014 Martha Patricia Nava Hernandez, PhD, Department of Biology of Reproduction, Faculty of Medicine, Universidad Autonoma de Coahuila, Torreon, Coahuila, Mexico.

PEER REVIEWED PUBLICATIONS

1. Akmal KM, **Dufour JM**, Kim KH. 1996 Region-specific localization of retinoic acid receptor- α expression in the rat epididymis. *Biology of Reproduction* 54:1111-1119.
2. Akmal KM, **Dufour JM**, Kim KH. 1997 Retinoic acid receptor α gene expression in the rat testis: potential role during the prophase of meiosis and in the transition from round to elongating spermatids. *Biology of Reproduction* 56:549-556.
3. *Akmal KM, ***Dufour JM**, Vo M, Higginson S, Kim KH. 1998 Ligand-dependent regulation of retinoic acid receptor α in rat testis: *In vivo* response to depletion and repletion of vitamin A. *Endocrinology* 139:1239-1248.
4. Cupp AS, **Dufour JM**, Kim G, Skinner MK, Kim KH. 1999 Action of retinoids on embryonic and early postnatal testicular development. *Endocrinology* 140:2343-2352.
5. **Dufour JM**, Kim KH. 1999 Cellular and subcellular localization of six retinoid receptors in rat testis during postnatal development: identification of potential heterodimeric receptors. *Biology of Reproduction* 61:1300-1308.
6. Binette TM, **Dufour JM**, Korbutt GS. 2001 *In vitro* maturation of neonatal porcine islets: A novel model for the study of islet development and xenotransplantation. *Annals of the New York Academy of Sciences* 944: 47-61.
7. **Dufour JM**, Rajotte RV, Korbutt GS. 2002 Development of an *in vivo* model to study testicular morphogenesis. *Journal of Andrology* 23:635-644.
8. Kin T, Rajotte RV, **Dufour JM**, Korbutt GS. 2002 Development of an immunoprivileged site to prolong islet allograft survival. *Cell Transplantation* 11:547-552.
9. ***Dufour JM**, *Vo MN, Bhattacharya N, Okita J, Okita R, Kim KH. 2003 Peroxisome proliferators disrupt retinoic acid receptor alpha signaling in the testis. *Biology of Reproduction* 68:1215-1224.
10. **Dufour JM**, Rajotte RV, Korbutt GS, Emerlich D. 2003 Harnessing the immunomodulatory properties of Sertoli cells to enable xenotransplantation in type 1 diabetes. *Immunological Investigations* 32:275-297.
11. **Dufour JM**, Rajotte RV, Kin T, Korbutt GS. 2003 Immunoprotection of rat islet xenografts by co-transplantation with Sertoli cells and a single injection of antilymphocyte serum. *Transplantation* 75:1594-1596.
12. Rayat GR, Rajotte RV, Lyon J, **Dufour JM**, Korbutt GS. 2003 Immunization with streptozotocin-treated NOD mouse islets inhibits the onset of autoimmune diabetes in NOD mice. *Journal of Autoimmunity* 21:11-15.
13. **Dufour JM**, Rajotte RV, Seeberger K, Kin T, Korbutt GS. 2003 Long-term survival of neonatal porcine Sertoli cells in non-immunosuppressed rats. *Xenotransplantation* 10:577-586.

14. **Dufour JM**, Hemendinger R, Halberstadt CR, Gores P, Emerich DF, Korbutt GS, Rajotte RV. 2004 Genetically engineered Sertoli cells are able to survive allogeneic transplantation. *Gene Therapy* 11:694-700.
15. **Dufour JM**, Gores P, Hemendinger R, Emerich DF, Halberstadt CR. 2004 Transgenic Sertoli cells as a vehicle for gene therapy. *Cell Transplantation* 13:1-6.
16. Bhattacharya N, **Dufour JM**, Vo MN, Okita J, Okita R, Kim KH. 2005 Differential effects of phthalates on the testis and the liver. *Biology of Reproduction* 72:745-754.
17. Kin T, Korbutt GS, Kobayashi T, **Dufour JM**, Rajotte. 2005 Reversal of diabetes in pancreatectomized pigs after transplantation of neonatal porcine islets. *Diabetes* 54:1032-1039.
18. **Dufour JM**, Hamilton M, Rajotte RV, Korbutt GS. 2005 Neonatal porcine Sertoli cells inhibit human natural antibody mediated lysis. *Biology of Reproduction* 72:1224-1231.
19. **Dufour JM**, Rajotte RV, Zimmerman M, Rezania A, Kin T, Dixon DE, Korbutt GS. 2005 Development of an ectopic site for islet transplantation using biodegradable scaffolds. *Tissue Engineering* 9/10:1323-1331.
20. Seeberger K, **Dufour JM**, Shapiro AMJ, Lakey JRT, Rajotte RV, Korbutt GS. 2006 Expansion of mesenchymal stem cells from human pancreatic ductal epithelium. *Laboratory Investigation* 86:141-153.
21. Sipione S, Simmen KC, Lord SJ, Motyka B, Ewen C, Shostak I, Rayat GR, **Dufour JM**, Korbutt GS, Rajotte RV, Bleackley RC. 2006 Identification of a novel human granzyme B inhibitor secreted by cultured Sertoli cells. *Journal of Immunology* 177:5051-5058.
22. Harb G, Toreson J, **Dufour J**, Korbutt G. 2007 Acute exposure to streptozotocin but not human proinflammatory cytokines impairs neonatal porcine islet insulin secretion in vitro but not in vivo. *Xenotransplantation* 14:580-590.
23. ***Dufour JM**, *Lord SJ, Kin T, Rayat GR, Dixon DE, Bleackley RC, Korbutt GS, Rajotte RV. 2008 Comparison of successful and unsuccessful islet/Sertoli cell co-transplant grafts in streptozotocin induced diabetic mice. *Cell Transplantation* 16:1029-1038.
24. **Dufour JM**, Dass B, Halley K, Korbutt GS, Dixon DE, Rajotte RV. 2008 Sertoli cell line lacks the immunoprotective properties associated with primary Sertoli cells. *Cell Transplantation* 17:525-534. *Cover photo*
25. *Mital P, *Kaur G, **Dufour JM**. 2010 Immunoprotective Sertoli cells: Making allogeneic and xenogeneic transplantation feasible. *Reproduction* 139:495-504.
26. *Halley KR, *Dyson EL, Kaur G, Mital P, Uong P, Dass B, Crowell SN, **Dufour JM**. 2010 Delivery of a therapeutic protein by immune privileged Sertoli cells. *Cell Transplantation* 19:1645-1657.

27. Mital P, Hinton BT, **Dufour JM**. 2011 The blood-testis and blood-epididymal barriers are more than just their tight junctions. *Biology of Reproduction* 84:851–858.
28. *Doyle TJ, *Kaur G, Putrevu SM, Dyson EL, Dyson M, McCunniff WT, Pasham MR, Kim KH, **Dufour JM**. 2012 Immunoprotective properties of Sertoli cells in mice: potential functional pathways that confer immune privilege. *Biology of Reproduction* 86:1-14.
29. Kaur G, Long CR, **Dufour JM**. 2012 Genetically engineered immune privileged Sertoli cells – a new road to cell based gene therapy. *Spermatogenesis* 2:23-31. *Cover photo*
30. Kaur G, **Dufour JM**. 2012 Editorial: Cell lines – Valuable tools or useless artifacts. *Spermatogenesis* 2:1-5.
31. Franca LR, Auharek SA, Hess RA, **Dufour JM**, Hinton BT. 2012 Blood-Tissue Barriers: Morphofunctional and immunological aspects of the blood-testis and blood-epididymal barriers, *Advances in Experimental Medicine and Biology*, 763:237-259.
32. Kaur G, Mital P, **Dufour JM**. 2013 Testis immune privilege- Assumptions versus facts. *Animal Reproduction* 10:3-15.
33. *Mital P, *Kaur G, Bowlin B, Paniagua NJ, Korbutt GS, **Dufour JM**. 2014 Nondividing, post-pubertal rat Sertoli cells resumed proliferation after transplantation. *Biology of Reproduction* 90:1, 13.
34. Kaur G, Thompson LA, **Dufour JM**. 2014 Sertoli cells: Immunological sentinels of spermatogenesis. *Seminars in Cell and Developmental Biology* 30:36-44.
35. Kaur G, Thompson LA, Pasham M, Tessanne K, Long CR, **Dufour JM**. 2014 Sustained expression of insulin by a genetically engineered Sertoli cell line after allotransplantation in diabetic BALB/c mice. *Biology of Reproduction* 90:5, 109. *Selected for a Commentary* (Cupp AS, Sertoli cell based gene therapy. 2014 *Biology of Reproduction*)
36. *Kaur G, *Thompson LA, **Dufour JM**. 2015 Therapeutic potential of immune privileged Sertoli cells. *Animal Reproduction* 12:105-117.
37. Franca LR, Hess RA, **Dufour JM**, Hofmann MC, Griswold MD. 2016 The Sertoli cell: one hundred fifty years of beauty and plasticity. *Andrology* 4:189-212.
38. *Wright K, *Dziuk R, Mital P, Kaur G, **Dufour JM**. 2016 Xenotransplanted neonatal pig Sertoli cells inhibit both alternative and classical pathways of complement mediated cell lysis. *Cell Transplantation* 25:2027-2040.
39. Ramalingam L, Menikdewella K, LeMieux M, **Dufour JM**, Kaur G, Kalupahana N, Moustaid-Moussa N. 2017 The renin angiotensin system, oxidative stress and mitochondrial function in obesity and insulin resistance. *Biochim Biophys Acta (BBA) Molecular Basis of Disease* 1863(5): 1106-1114.

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41. Allen L, Ramalingam L, Menikdiwela K, Scoggin S, Shen CL, Tomison MD, Kaur G, **Dufour JM**, Chung E, Kalupahana NS, Moustaid-Moussa N. 2017 Effects of delta-tocotrienol on obesity-related adipocyte hypertrophy, inflammation, and hepatic steatosis in high fat fed mice. *The Journal of Nutritional Biochemistry* 48:128-137.
42. Kaur G, Vadala S, **Dufour JM**. 2017 An overview of a Sertoli cell transplantation model to study testis morphogenesis and the role of the Sertoli cell barrier in testis immune privilege. *Environmental Epigenetics* 3: <https://doi.org/10.1093/EEP/DVX012>.
43. Kaur G, Wright K, Greer RH, Mueller K, Haynes A, **Dufour JM**. Chapter 6: Sertoli cell immune regulation within in the testis. In: C. Yan Cheng (Ed.) *Spermatogenesis: Biology and Clinical Implications*. CRC Press, Boca Raton, Florida. 2018
44. Kaur G, Thompson LA, Babcock RL, Mueller K, **Dufour JM**. 2018 Sertoli cells engineered to express insulin lower blood glucose in diabetic mice. *DNA and Cell Biology* doi: 10.1089/dna.2017.3937. *Cover photo*
45. Kaur G, **Dufour JM**. 2018 An update on the School of Medicine's Medical Student Research Program at Texas Tech University Health Sciences Center. *The Southwest Respiratory and Critical Care Chronicles* doi: 10.12746/swrccc.v6i24.471.
46. Kaur G, Helmer RA, Smith LA, Martinez-Zaguilan R, **Dufour JM**, Chilton BS. 2018 Alternative splicing of helicase-like transcription factor (Hlft): intron retention-dependent activation of immune tolerance at the feto-maternal interface. *PLOS One* 13(7) doi: 10.1371/journal.pone.0200211
47. Shen CL, Kaur G, Wanders D, Sharma S, Tomison MD, Ramalingam L, Chung E, Moustaid-Moussa N, Mo H, **Dufour JM**. 2018 Annatto-extracted tocotrienols improve glucose homeostasis and bone properties in high-fat diet-induced type II diabetic mice by decreasing the inflammatory response. *Scientific Reports* 8(1):11377 doi:10.1038/s41598-018-29063-9.
48. Chung E, Campise SN, Joiner HE, Tomison MD, Kaur G, **Dufour JM**, Cole L, Ramalingam L, Moustaid-Moussa N, Shen CL. 2019 Effect of annatto-extracted tocotrienols and green tea polyphenols on glucose homeostasis and skeletal muscle metabolism in obese male mice. *Journal of Nutritional Biochemistry* 67:36-43. doi: 10.1016/j.jnutbio.2019.01.021.
49. Kaur G, **Dufour JM**. 2019 Highlighting the importance of medical research: School of Medicine medical student research program. *The Southwest Respiratory and Critical Care Chronicles* doi: 10.12746/swrccc.v7i29.550.

50. Chung E, Grue KA, Kaur G, Mallory B, Serrano CR, Ullevig SL, Kottapalli KR, Lee SC, **Dufour JM**, Shen CL, Umeda M. 2019 Maternal exercise before and during pregnancy alleviates metabolic dysfunction associated with high-fat diet in pregnant mice, without significant changes in gut microbiota. *Nutrition Research* 69: 42-57.
DOI: 10.1016/j.nutres.2019.08.002
51. Chung E, Elmassry MM, Kottapalli P, Kottapalli KR, Kaur G, **Dufour JM**, Wright K, Ramalingam L, Moustaid-Moussa N, Wang R, Hamood AN, Shen CL. 2020 Metabolic benefits of annatto-extracted tocotrienol on glucose homeostasis, inflammation, and gut microbiome. *Nutrition Research* 77:97-107. *Selected for an Open Access Award* (\$3,000 for Special Issue of Nutrition Research).
52. Washburn RL, Kaur G, **Dufour JM**. 2020 Sertoli cells and complement inhibitors: a possible mechanism to increase pancreatic islet viability. *Annals of Diabetes Research* 4:1013.
53. Kaur G, Wright K, Mital P, Hibler T, Miranda JM, Thompson LA, Halley K, **Dufour JM**. 2020 Neonatal pig Sertoli cells survive xenotransplantation by creating an immune modulatory environment involving CD4 and CD8 regulatory T cells. *Cell Transplantation* 29:963689720947102. doi: 10.1177/0963689720947102.
54. Menikdiwela KR, Ramalingam L, Rasha F, Wang S, **Dufour JM**, Kalupahana NS, Sunahara KKS, Martins JO, Moustaid-Moussa N. 2020 Autophagy in metabolic syndrome: Breaking the wheel by targeting the renin angiotensin system. *Cell Death and Disease* 11:87.
55. Kaur G, Wright K, Verma S, Haynes A, **Dufour JM**. 2021 The good, the bad and the ugly of testicular immune regulation: a delicate balance between immune function and immune privilege. In: C. Yan Cheng (Ed.) *Molecular Mechanisms in Spermatogenesis*, Springer Nature, Basingstoke, United Kingdom. *Adv Exp Med Biol.* 1288:21-47. doi: 10.1007/978-3-030-77779-1_2.
56. Sivaprakasam S, Sikder MOF, Ramalingam L, Kaur G, **Dufour JM**, Moustaid-Moussa N, Wachtel MS, Ganapathy V. 2021 SLC6A14 deficiency is linked to obesity, fatty liver, and metabolic syndrome but only under conditions of a high-fat diet. *BBA - Molecular Basis of Disease* 1867(5):166087. doi: 10.1016/j.bbadi.2021.166087
57. Helmer BA, Martinez-Zagulian R, Kaur G, Smith LA, **Dufour JM**, Chilton BS. 2021 Helicase-like transcription factor-deletion from the tumor microenvironment in a cell line-derived xenograft model of colorectal cancer reprogrammed the human transcriptome-S-nitroso-proteome to promote inflammation and redirect metastasis. *PLOS ONE* doi.org/10.1371/journal.pone.0251132.
58. Washburn RL, Mueller K, Kaur G, Moreno T, Ramalingam L, Moustaid-Moussa N, **Dufour JM**. 2021 C-peptide as a therapy for type 1 diabetes. *Biomedicines* 9(3):270. doi: 10.3390/biomedicines9030270.

59. Shen CL, Ramamoorthy S, Kaur G, **Dufour JM**, Wang R, Mo H, Watkins BA. 2021 Dietary annatto-extracted tocotrienol reduces inflammation and oxidative stress, and improves macronutrient metabolism in obese mice: a metabolic profiling study. *Nutrients* 13(4):1267. doi: 10.3390/nu13041267.
60. Menikdiwela KR, Guimaraes JPT, Ramalingam L, Kalupahana NS, **Dufour JM**, Washburn RL, Moustaid-Moussa N. 2021 Mechanisms Linking Endoplasmic Reticulum (ER) Stress and microRNAs to Adipose Tissue Dysfunction in Obesity. *Critical Reviews in Biochemistry & Molecular Biology* 56(5):455-481. doi: 10.1080/10409238.2021.1925219.
61. Chung E, Elmassry MM, Cao JJ, Kaur G, **Dufour JM**, Hamood AN, Shen CL. 2021 Beneficial effect of dietary geranylgeraniol on glucose homeostasis and bone microstructure in obese mice is associated with suppression of proinflammation and modification of gut microbiome. *Nutrition Research* 93:27-37. doi: 10.1016/j.nutres.2021.07.001.
62. Washburn RL, Hibler T, Thompson LA, Kaur G, **Dufour JM**. 2022 Therapeutic application of Sertoli cells for treatment of various diseases. *Seminars in Cell and Developmental Biology* 121: 10-23. doi: 10.1016/j.semcdb.2021.04.007.
63. Washburn RL, Hibler T, Kaur G, **Dufour JM**. 2022 Sertoli cell immune regulation: a double-edged sword. *Frontiers in Immunology* 13:913502. doi: 10.3389/fimmu.2022.913502
64. Wang R, Santos JM, **Dufour JM**, Stephens E, Miranda JM, Washburn RL, Hibler T, Kaur G, Lin D, Shen CL. 2022 Ginger root extract improves GI health in diabetic rats via improving intestinal integrity and mitochondrial function. *Nutrients* 4:4384. doi: 10.3390/nu14204384
65. Washburn RL, Kaur G, **Dufour JM**. 2022 Mouse Sertoli cells inhibit humoral-based immunity. *International Journal of Molecular Sciences* 23:12760. doi.org/10.3390/ijms232112760
66. **Dufour JM**. 2022 What are the multiple roles of the Sertoli cell? Supporting spermatogenesis and immune regulation. *Handbook of Andrology*, American Society of Andrology.
67. Washburn RL, Hibler T, Kaur G, Sabu-Kurian A, Landefeld A, **Dufour JM**. 2022 Immunoregulatory Sertoli cell allografts engineered to express human insulin survive humoral-mediated rejection. *International Journal of Molecular Sciences* 23(24), 15894; <https://doi.org/10.3390/ijms232415894> **Highlighted by ABclonal** (ABclonal in Action: Diabetes, Insulin, and Resisting Graft Rejection, Kin Leung).
68. Shen CL, **Dufour JM**, Miranda JM, Kaur G, Chung E, Ramalingam L, Moustaid-Moussa N, Cao JJ. 2023 Effect of dietary geranylgeraniol and green tea polyphenols on glucose

homeostasis, bone turnover biomarkers and bone microstructure in obese mice. International Journal of Molecular Sciences 24:979 doi.org/10.3390/ijms24020979

69. Washburn RL, Martinez-Marin D, Korac K, Sniegowski T, Hibler T, Rodriguez AR, Chilton BS, Pruitt K, **Dufour JM**. 2023 The Sertoli cell complement signature: A suspected mechanism in xenograft survival. International Journal of Molecular Sciences 24:1890. doi: 10.3390/ijms24031890.

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74. Washburn RL, **Dufour JM**. 2023 Regulation of complement by Sertoli cells may contribute to the immune protective environment within the blood-testis barrier. Tissue Barriers Jul 13:2233385. doi: 10.1080/21688370.2023.2233385.

75. Washburn RL, **Dufour JM**. 2023 Gene expression profiles of neonatal porcine Sertoli cells at baseline and after incubation in normal human serum as determined by RNA sequencing. Tissue Barriers Jul 30:2242060. doi: 10.1080/21688370.2023.2242060.

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77. Martinez-Marin D, Helmer BA, Kaur G, Washburn RL, Martinez-Zaguilan R, Sennoune SR, **Dufour JM**, Chilton BS. 2023 Helicase-like transcription factor (HLTF)-deleted CDX/TME model of colorectal cancer increased transcription of oxidative phosphorylation genes and diverted glycolysis to boost S-glutathionylation in lymphatic

intravascular metastatic niches. PLoS One Sep 8;18(9):e0291023. doi: 10.1371/journal.pone.0291023.

78. Miller SC, Tikhonova EB, Hernandez SM, **Dufour JM**, AL Karamyshev. 2024 Loss of preproinsulin interaction with signal recognition particle activates protein quality control, decreasing mRNA stability. *Journal of Molecular Biology* <https://doi.org/10.1016/j.jmb.2024.168492> *Cover Photo*

79. Shen CL, Wankhade U, Shanker K, Najjar RS, Feresin RG, Elmassry MM, **Dufour JM**, Kaur G, Chintapalli SV, Piccolo BD, Dunn DM, JJ Coa. 2024 Effects of statin and annatto-extracted tocotrienol supplementation on glucose homeostasis, bone microstructure, and gut microbiota composition in obese mice. *In vivo* 38(4):1557-1570. doi: 10.21873/invivo.13606.

80. Deshmukh H, Santos JM, Bender M, **Dufour JM**, Lovett J, Shen CL. 2024 Peanut shell extract improves mitochondrial function in db/db mice via suppression of oxidative stress and inflammation. *Nutrients* 16(13), 1977; <https://doi.org/10.3390/nu16131977>

81. Bender M, Santos JM, **Dufour JM**, Deshmukh H, Trasti S, Elmassry MM, Shen CL. 2024 Peanut shell extract improves markers of glucose homeostasis in diabetic mice by modulating gut dysbiosis and suppressing inflammatory immune response. *Nutrients* 16(23):4158. doi: 10.3390/nu16234158.

82. Rodriguez A, Babcock RL, Tôrres Guimarães JP, Kaur G, **Dufour JM**. 2025 Immune Regulation in the Testis and Epididymis. *Adv Exp Med Biol* 2025:1469:25-47. doi: 10.1007/978-3-031-82990-1_2.

83. Li T, Li W, **Dufour JM**, Walker WH, Yuan S, Zhang Z. 2025 Mouse SPAG6L, a key cytoskeleton modulator essential for male germ cell development, is not required for Sertoli cell function. *Cells* 14(11):783. doi: 10.3390/cells14110783

84. Rodriguez A, Tôrres Guimarães JP, Chakroborty A, Babcock RL, Miranda JM, Kaur G, **Dufour JM**. 2025 Isolation of pig or rodent Sertoli cells for use in transplantation. In: Prabhakara P. Reddy (Ed.) *Spermatogenesis: Methods and Protocols*. Springer Nature, New York, USA. *Methods in Molecular Biology*. 163-182.

85. Deshmukh H, Mendóza R, Santos JM, Sivaprakasam S, Elmassry MM, Miranda JM, Pham PQ, Driver Z, Bender M, Dufour JM, Shen CL. 2025 Effect of Peanut Shell Extract and Luteolin on Gut Microbiota and the Inflammatory Continuum in a Murine Model of Metabolic Syndrome. *Nutrients* 17(14):2290 doi: 10.3390/nu17142290

86. Nejat S, Menikdiwela KR, Iskander O, Scoggin S, Zu Y, **Dufour JM**, Chakroborty A, Vandamagsar B, Thornally PJ, Dehbi M, Kalupahana SK, Moustaid-Moussa N. 2025 DNAJB3 Deficiency in Mice, Sex-Dependently, Exacerbates High-fat Diet Induced Metabolic Dysfunctions. *Obesity* <https://doi.org/10.1002/oby.70063>

87. ShenCL, Liu X, Cao JJ, Neugebauer V, Miranda JM, Elmassry MM, Dunn DM, **Dufour JM**. 2025 Dietary geranylgeraniol mitigates pain-associated behaviors via mitochondrial function and colon integrity and suppressing neuroinflammation in male diabetic neuropathy rats. *International Journal of Molecular Sciences* 26(24):12133. doi: 10.3390/ijms262412133.
88. Guimarães, J, Babcock, R, Rodriguez, A, **Dufour, J**, and Kaur, G. (2026) The Blood-Testis Barrier: An Overview of the Physical, Physiological, and Immunological Functions. In: Skinner, Michael K. (ed.) *Encyclopedia of Reproduction*, 3e, vol. 1, pp. 197–21. <https://doi.org/10.1016/B978-0-443-21477-6.00323-0>
89. Babcock, R, **Dufour, J**. Testicular immune privilege revisited: When protection fails. *Fertility and Sterility* (submitted)
90. Shen CL, Beal J, Stroever S, **Dufour JM**, Dunn DM, Jones B. Curriculum development of a novel long-form student research elective, distinction in medical research program, at a large rural Texas medical school: Preliminary report. (in prep)
91. Shen CL, Stroever S, Lovett J, Rudder J, **Dufour JM**, B Schackmuth, Dunn DM, Jones B. The Medical Student Summer Research Program (MSSRP) at Texas Tech University Health Sciences Center: Identifying Barriers and Providing Solutions to Build Research Foundations. *Medical Science Educator* (in prep)

***Co-First Authors**

BOOKS

1. Dufour JM, Kaur G, Kruczak C, Mittal N, Peiris AN, Sleeper RB, Agrimor J, Calara A, Jaroudi S, Moon J, Raju S, Rice S, Wright K. 2018 *Interesting Clinical Vignettes: 101 Ice Breakers for Medical Rounds*. Texas Tech University Health Sciences Center, Lubbock, TX.

INVITED SPEAKER

2002

1. From Sertoli cells to pancreatic islet transplantation.
Department of Animal Science, University of Nebraska (Lincoln, Nebraska, February 5, 2002)
2. Sertoli cells: Creation of an immunoprivileged site.
Department of Animal Science, University of Nebraska (Lincoln, Nebraska, February 6, 2002)

2003

1. Spermatogenesis.
Department of Agricultural, Food and Nutritional Science, University of Alberta (Edmonton, Alberta, August 25, 2003)
2. Creation of an immunoprivileged site with Sertoli cells.
Department of Agricultural, Food and Nutritional Science, University of Alberta (Edmonton, Alberta, August 26, 2003)

2004

1. Creation of an immunoprivileged site with Sertoli cells.
Department of Physiology, University of Alberta (Edmonton, Alberta, February 13, 2004)
2. Harnessing the immunoprotective properties of Sertoli cells.
Diabetes Research Group, University of British Columbia (Vancouver, British Columbia, August 3, 2004)
3. Harnessing the immunoprotective properties of Sertoli cells.
Department of Cell Biology and Biochemistry, Texas Tech University Health Sciences Center (Lubbock, Texas, August 12, 2004)

2005

1. Harnessing the immunoprotective properties of Sertoli cells to prevent islet graft rejection.
Helen Jones Foundation (Lubbock, Texas, March 23, 2005)
2. Development of an immune privileged site for islet transplantation.
American Diabetes Association Regional Group (Lubbock, Texas, March 31, 2005)
3. Islet transplantation: Past, present and future.
American Diabetes Association Family Resource Network (Science Spectrum, Lubbock, Texas, May 15, 2005)
4. Harnessing the immunoprotective properties of Sertoli cells for cancer treatment.
Southwest Cancer Group Seminar Series (Lubbock, Texas, October 28, 2005)

2006

1. Diabetes and islet transplantation.
Lyon's Club South Plains (Lubbock, Texas, January 12, 2006)
2. The use of Sertoli cells to improve islet transplantation.
Department of Biology, New Mexico Highlands University (Las Vegas, New Mexico, March 31, 2006)
3. Sertoli cells and xenotransplantation.
Department of Pathology and Cell Biology, University of South Florida (Tampa, Florida, August 23, 2006)
4. Creation of an immunoprivileged site for islet transplantation.
Children's Research Institution, University of South Florida (St. Petersburg, Florida, August 24, 2006)
5. Sertoli cells and xenotransplantation.
Department of Physiology, Texas Tech University Health Sciences Center (Lubbock, Texas, November 2, 2006)
6. Clinical islet transplantation.
Medical Student Biotechnology Club, Texas Tech University Health Sciences Center (Lubbock, Texas, December 12, 2006)

2007

1. Transplantation and Sertoli cells.
Scientific Advisory Board Meeting Sernova Corp. (Toronto, Ontario, January 31, 2007)
2. Extra-testicular Sertoli cell: Immunobiology and role in transplantation.
Symposium V – Intramural and extramural testis cell biology, 32nd Annual American Society of Andrology Meeting (Tampa, Florida, April 24, 2007)

3. Islet transplantation: An update.
American Diabetes Association Family Resource Network (Science Spectrum, Lubbock, Texas, April 28, 2007)
4. Genetically engineered Sertoli cells as a vehicle for gene therapy.
Scientific Advisory Board Meeting, Sernova Corp. (Toronto, Ontario, October 31, 2007)

2008

1. Transplantation of immune privileged Sertoli cells.
School of Molecular Biosciences, Washington State University (Pullman, Washington, February 8, 2008)
2. Transplantation of immune privileged Sertoli cells.
Center for Animal Transgenesis and Germ Cell Research, New Bolton Center, University of Pennsylvania (Philadelphia, Pennsylvania, February 26, 2008)
3. Transplantation of immune privileged Sertoli cells.
Center for Research on Reproduction and Women's Health, University of Pennsylvania (Philadelphia, Pennsylvania, February 27, 2008)
4. Immune privileged Sertoli cells: Role in Transplantation.
Department of Cell Biology and Biochemistry, Texas Tech University Health Sciences Center (Lubbock, Texas, April 23, 2008)
5. Use of immunoprotective Sertoli cells for islet transplantation
Reproductive Tract Biology, Gordon Research Conference, Proctor Academy (Andover, New Hampshire, August 5, 2008)
6. Explaining the mystery of biomedical research: Type I diabetes mellitus
Community Medical School, Texas Tech University Health Sciences Center (Lubbock, Texas, September 30, 2008)

2009

1. How to succeed as a junior faculty member
Postdoctoral Association, Texas Tech University (Lubbock, TX, January 29, 2009)
2. Understanding Sertoli cell transplantation
College of Agriculture and Life Sciences, Department of Animal Science, Texas A&M University (College Station, TX, February 27, 2009)
3. Sertoli cells: Immune privilege and role in transplantation
5th International Workshop Molecular Andrology (Altes Schloss Giessen, Germany, May 9, 2009)
4. Transplantation of immune privileged Sertoli cells.
Biotechnology Program, Department of Chemical and Biological Engineering, Northwestern University (Evanston, IL, November 6, 2009)

2010

1. Transplantation of Sertoli cells: Mechanism of immune-privilege and potential for gene therapy.
Alberta Diabetes Institute, University of Alberta (Edmonton, AB, March 22, 2010)
2. Career in Medical Research.
Science: It's a Girl Thing 2010 for 5th and 6th Graders, Institute for the Development and Enrichment of Advanced Learners, Texas Tech University (Lubbock, TX, June 23, 2010)
3. Career in Medical Research.

Science: It's a Girl Thing 2010 for 7th to 11th Graders, Institute for the Development and Enrichment of Advanced Learners, Texas Tech University (Lubbock, TX, July 21, 2010)

4. Transplantation of immune-privileged Sertoli cells: Modification of immune response and potential for gene therapy.

Department of Biology, Indiana State University (Terre Haute, IN, December 7, 2010)

2011

1. Transplantation of immune-privileged Sertoli cells: Modification of cell-mediated immune response and potential for gene therapy.

Department of Biological Sciences, Texas Tech University (Lubbock, TX, February 16, 2011)

2. Career in Medical Research: Use of immune-privileged Sertoli cells to treat diabetes.

Science: It's a Girl Thing 2011 for 5th and 6th Graders, Institute for the Development and Enrichment of Advanced Learners, Texas Tech University (Lubbock, TX, June 22, 2011)

3. Career in Medical Research: Use of immune-privileged Sertoli cells to treat diabetes.

Science: It's a Girl Thing 2011 for 7th to 11th Graders, Institute for the Development and Enrichment of Advanced Learners, Texas Tech University (Lubbock, TX, July 20, 2011)

4. Immune privilege in the testis and epididymis.

Department of Immunology and Pharmacology, Federal University of São Paulo, University of São Paulo (São Paulo, Brazil, August 22, 2011)

5. Transplantation of immune-privileged Sertoli cells: Modification of cell-mediated immune response and potential for gene therapy.

Department of Morphology, Federal University of Minas Gerais. (Belo Horizonte, Brazil, August 23, 2011)

6. Transplantation of immune-privileged Sertoli cells: Use in cell therapy.

Federal University of Rio de Janeiro. (Rio de Janeiro, Brazil, August 26, 2011)

7. Creation of an immune privileged site with testicular Sertoli cells.

XXVI Annual Meeting of the Brazilian Federation of Experimental Biology Societies (Rio de Janeiro, Brazil, August 27, 2011)

8. Immune-privileged Sertoli cells: Modification of the immune response and potential for cell therapy.

Department of Cell Biology and Biochemistry, Texas Tech University Health Sciences Center (Lubbock, TX, September 14, 2011)

2012

1. Career in Medical Research: Choose a job you love and you will never have to work a day in your life.

Science: It's a Girl Thing 2012 for 5th and 6th Graders, Institute for the Development and Enrichment of Advanced Learners, Texas Tech University (Lubbock, TX, June 20, 2012)

2. Career in Medical Research: Choose a job you love and you will never have to work a day in your life.

Science: It's a Girl Thing 2012 for 7th and 11th Graders, Institute for the Development and Enrichment of Advanced Learners, Texas Tech University (Lubbock, TX, July 25, 2012)

3. Immune-privileged Sertoli cells: Induction of regulatory T cells and therapeutic potential.

Testis Immune Function Minisymposium, Dynamics of Testicular Function Module, Society for the Study of Reproduction 45th Annual Meeting (State College, PA, August 13, 2012)

4. Transplantation of immune-privileged Sertoli cells: Modification of cell-mediated immune response and therapeutic potential.
Toxicology Seminar Series, Division of Pharmacology & Toxicology University of Texas (Austin, TX, September 6, 2012)
5. SACNAS Tour of Dr. Dufour's Research Lab.
SACNAS, Texas Tech University (Lubbock, TX, October 24, 2012)
6. A cure for diabetes – Are we there yet?
Osher Lifelong Learning Institute, Texas Tech University (October 25, 2012)

2013

1. Creation of an immune-privileged site with testicular Sertoli cells.
Department Seminar Series, Department of Immunology and Molecular Microbiology (Lubbock, TX, March 13, 2013)
2. Clinical islet transplantation.
Nephrology Grant Rounds, Department of Internal Medicine (Lubbock, TX, May 21, 2013)

2014

1. Relevance of immunoregulatory Sertoli cells for obesity research.
Obesity Research Cluster Workshop, Texas Tech University (Lubbock, TX, May 14, 2014)
2. Exploring the therapeutic potential of immune privileged Sertoli cells.
Nephrology Fellowship Conference, Department of Internal Medicine (Lubbock, TX, June 17, 2014)
3. Therapeutic and Immunoregulatory Potential of Sertoli Cells.
Fertility: from gametogenesis to embryo development, V International Symposium on Animal Biology of Reproduction (Campinas, Sao Paulo, Brazil, October 11, 2014)
4. Genetically engineered Sertoli cells as a vehicle for cell based gene therapy.
Wilson Foundation (Dallas, TX, October 13, 2014)
5. Diabetes Research Update.
3rd Annual Kids Living Healthy in the Real World, American Diabetes Association Family Link (Lubbock, TX, October 25, 2014)
6. Exploring the therapeutic potential of immune privileged Sertoli cells.
Obesity Research Cluster, Texas Tech University (Lubbock, TX, November 12, 2014)

2015

1. A cure for diabetes – are we there yet?
Community Medical School, Texas Tech University Health Sciences Center (Lubbock, TX, January 20, 2015)
2. Sertoli cells- Immune privilege and novel roles in cell based gene therapy.
Session 5: Somatic Cells, "Healthy Sperm-Healthy Children" The XXIIIth North American Testis Workshop (Salt Lake City, Utah, April 17, 2015)
3. Exploring the therapeutic and immunoregulatory potential of immune privileged Sertoli cells.
Department of Comparative Biology & Experimental Medicine, University of Calgary (Calgary, Alberta, Canada, April 30, 2015)
4. Sertoli Cells: Therapeutic Potential in Cell Based Gene Therapy.

49th Annual Gene Families and Isozymes (GFI) Conference
(Roberts Grove Resort Placencia, Belize, December 11, 2015)

2016

1. Therapeutic potential of transplanted immune privilege Sertoli cells: unexpected revelations about Sertoli cell dogmas.
“Old Dogmas, New Ideas: The Changing Landscape in Andrology” American Society of Andrology 41st Annual Conference (New Orleans, LA, April 2-5, 2016)
2. Transplantation of Immune Privileged Sertoli cells: more than just testicular nurse cells.
Texas Forum for Reproductive Sciences, M.D. Anderson Onstead Auditorium (Houston, TX, April 21-22, 2016) (**Plenary Speaker**)
3. Sertoli cells – Master immune regulators.
Somatic cells and testicular function in the adult, Society for the Study of Reproduction 49th Annual Meeting (San Diego, CA, July 16-20, 2016)
4. Relevance of Sertoli Cell Immune Privilege to Cell Transplantation
“Epigenetics/Reproduction/Environment” 2016 Africa Conference (Kenya, Africa, October 15-24, 2016)
5. Transplantation of Immune Privileged Sertoli cells: more than just testicular nurse cells.
Department Seminar Series, Department of Immunology and Molecular Microbiology (Lubbock, TX, November 2, 2016)

2017

1. Transplantation of Immune Privileged Sertoli cells: more than just testicular nurse cells.
Department of Obstetrics and Gynecology, TTUHSC (Permian Basin, TX, February 13, 2017)
2. History, Accomplishments and the Future.
Women in Andrology Luncheon & Discussion, 42nd Annual American Society of Andrology Meeting (Miami, Florida, April 22-25, 2017).
3. Immune privileged Sertoli cells: More than just testicular nurse cells.
Department of Cell Biology and Biochemistry (Lubbock, TX, September 14, 2017)
4. Mechanisms of Sertoli cells immune privilege.
Molecular Mechanisms of Immune Consequences of Pathogen Reservoirs: Battling Unseen Enemies. National Institutes of Allergy and Infectious Disease (NIAID) (Rockville, MD, September 19-20, 2017)
5. Immune regulation by testicular Sertoli cells.
Advances in Andrology: The Basic Science Behind Fertility. National Institutes of Environmental Health Sciences (NIEHS) (Research Triangle Park, NC, October 13, 2017)

2018

1. How to Translate Your Research Question into a Hypothesis and Specific Aims.
Grant Writing Workshop for Physicians (TTUHSC at the Permian Basin, TX, September 13, 2018)
2. Using Sertoli Cells to Treat Diabetes.
Center of Emphasis in Diabetes and Metabolism, Biomedical Sciences, TTUHSC (El Paso, TX, September 12, 2018).
3. Using Sertoli Cells to Treat Diabetes.

Student and Faculty Retreat, Graduate School of Biomedical Sciences (Lubbock, TX, September 21, 2018) (**Keynote Lecture**)

4. Mechanisms of Sertoli Cell Immune Regulation.

52nd Annual Gene Families and Isozymes (GFI) Conference
(Bahia del Sol, Potrero, Costa Rica, December 6, 2018)

2019

1. Mechanisms of Sertoli Cell Immune Regulation.

“Fertility and Men’s Health” American Society of Andrology 44st Annual Conference
(Chicago, IL, April 6-9, 2019)

2021

1. Induction of Tregs and Complement Inhibition: Critical Components of Sertoli Cell Immune Regulation.

4th Dr. Yves Clermont Lecture in Reproduction at the 12th Annual Research Day of the McGill Centre for Research in Reproduction and Development. (Montreal, Quebec, Canada) (Moved due to COVID-19 from May 2020 to May 11, 2021)

2022

1. Immunosuppressive functions of Sertoli cells.

Male Reproductive Immunology. American Society for Reproductive Immunology.
(Nashville, TN, May 22-26, 2022).

2. The Sertoli cell immune microenvironment.

“Immune Function in Reproductive Biology” 2022 Mammalian Reproduction, Gordon Research Conference, Mount Snow, West Dover, Vermont (Moved due to COVID-19 from August 2020 to August 14-19, 2022)

3. Sertoli Cell Immune Regulation and Collaborations with Bioactive Molecules and Diabetes.
Obesity Research Institute Fall 2022 Seminar Series: Sustainable Agriculture & Nutrition Security, Texas Tech University, (Lubbock, Tx, October 28, 2022)

2023

1. Immunoprotective Sertoli Cells in Transplantation.

Women in Andrology Lecture, American Society for Andrology. (Boston, MA, April 19-23, 2023).

2. Sertoli cell Transplantation: An Innovative Way to Study Testis Immune Regulation.

“At the Interface of Tolerance and Defense”. 3rd Virtual Mini Symposium on Male Reproductive Immunology. Hosted by Justus-Liebig Universitat Giessen, Hessian Centre of Reproductive Medicine, Germany (November 29-30, 2023).

2024

1. Complement and Sertoli cell Immune Regulation.

The Immune Milieu of the Male Reproductive Tract. American Society for Reproductive Immunology. (Houston, TX, May 18-22, 2024).

2. Comprehensive Analysis of Sertoli Cell Resistance to Complement-Mediated Lysis:
Implications For Immune Modulation And Transplant Survival

56th Annual Gene Families and Isozymes (GFI) Conference
(San Pedro, Belize, December 8-14, 2024)

2025

1. Comprehensive Analysis of Sertoli Cell Resistance to Complement-Mediated Cell Lysis.
Texas Center for Comparative Cancer Research (TC3R) Seminar Series, School of Veterinary Medicine, TTU (Amarillo, TX, February 13, 2025)
2. TTUHSC updates.
TTUHSC Faculty Women's Club. (Lubbock, TX, September 9, 2025)
3. Complement Regulation by Sertoli Cells: Inhibition and Transcriptional Accommodation.
Distinguished Speaker, Eighth Annual Abilene Interdisciplinary Symposium on Cancer and Biomedical Research, (Abilene, TX October 24, 2025)
4. Evaluation of the male reproductive tract as a viral sanctuary site using a humanized mouse model of HIV infection
Institute for One Health Innovation Annual Meeting, (Lubbock, TX November 14, 2025)

2026

1. **Plenary Lecture**, Texas Forum for Reproductive Sciences, Houston TX (April 9-10, 2025)

ABSTRACTS

1. **Dufour JM**, Kim KH. 1995 Immunolocalization of retinoic acid receptor- α (RAR- α) in the rat testes. *Molecular Biology of the Cell* 6:316a (Abst. # 1838).
2. **Dufour JM**, Akmal KM, Vo M, Kim KH. 1997 Changes in the subcellular localization of RAR α during Vitamin A depletion and induction in rat testis. *Biology of Reproduction* 56:217 (Abst. # 538) (Supp 1).
3. **Dufour JM**, Kim KH. 1999 Expression of six retinoid receptors in rat testis during postnatal development: study of potential heterodimeric partners. *Biology of Reproduction* 60:145 (Abst. # 166) (Suppl 1). (**Platform Presentation**)
4. **Dufour JM**, Rajotte RV, Korbutt GS. 2001 Xenogeneic transplantation of neonatal porcine Sertoli cells: A strategy to immunoprotect islet grafts. 8th World Congress of the International Pancreas and Islet Transplant Association (Innsbruck, Austria, June 12-15). Programme and Abstract Book, page 58, Abst. #03-63. (**Platform Presentation**)
5. Vo M, **Dufour JM**, Holden TD, Okita JR, Okita RT, Kim KH. 2001 Inhibition of retinoic acid receptor-mediated signaling by phthalates in the testis. *Biology of Reproduction* 64:349 (Abst. # 618) (Supp 1).
6. Kim KH, Braun KW, **Dufour JM**. 2001 A molecular role of FSH in the testis of developing rats: Regulation of retinoic acid receptor function. *Biology of Reproduction* 64:102 (Abst. # M40) (Supp 1).
7. **Dufour JM**, Rajotte RV, Korbutt GS. 2001 Genetically engineered Sertoli cells as therapy: Green fluorescent protein expressing Sertoli cells are able to survive transplantation. *Biology of Reproduction* 64:272 (Abst. # 423) (Suppl 1).

8. **Dufour JM**, Rajotte RV, Korbutt GS. 2001 Xenogeneic transplantation of neonatal porcine Sertoli cells: A strategy to immunoprotect islet grafts. VI Congress of the International Xenotransplantation Association (Chicago, IL, September 29-October 3) Abstract presented at meeting - but not published in Xenotransplantation (Abst. #08). (**Platform Presentation**)
9. Rajotte RV, **Dufour JM**, Korbutt GS. Alginate microencapsulation: enhanced islet viability and co-encapsulation with Sertoli cells. Encapsulation& Immunoprotective Strategies of Islet Cell Workshop (Washington D.C., December 6-7, 2001).
10. **Dufour JM**, Rajotte RV, Korbutt GS. 2002 Development of a novel in vivo model to study porcine testicular morphogenesis. *Biology of Reproduction* 66:299 (Abst # 496) (Suppl 1).
11. **Dufour JM**, Rajotte RV, Kin T, Dixon D, Korbutt GS. 2003 Creation of an ectopic site for islet transplantation. 9th World Congress of the International Pancreas and Islet Transplant Association (Dublin, Ireland, July 8-11). Programme and Abstract Book, page 37, Abst. # 024. (**Platform Presentation**)
12. Kin T, Korbutt GS, Kobayashi T, **Dufour JM**, Lyon J, O'Hara J, Sekida S, Rajotte RV. 2003 Reversal of diabetes in totally pancreatectomized pigs after allografting neonatal porcine islets. 9th World Congress of the International Pancreas and Islet Transplant Association (Dublin, Ireland, July 8-11). Programme and Abstract Book, page 39, Abst. # 029.
13. **Dufour JM**, Rajotte RV, Harris CD, Korbutt GS. 2003 Neonatal porcine Sertoli cells do not express Gal \square (1,3)Gal and are resistant to human antibody/complement mediated lysis. 9th World Congress of the International Pancreas and Islet Transplant Association (Dublin, Ireland, July 8-11). Programme and Abstract Book, page 59, Abst. # 070. (**Platform Presentation**)
14. **Dufour JM**, Rajotte RV, Kin T, Dixon D, Korbutt GS. 2003 Creation of an ectopic site for islet transplantation using biodegradable scaffolds. Abstract presented at the Western Regional Islet Study Group Meeting (Seattle, WA, September 19-21). (**Platform Presentation**)
15. **Dufour JM**, Rajotte RV, Hamilton M, Eshpeter A, Korbutt GS. 2004 Neonatal porcine Sertoli cells prevent formation of the membrane attack complex and are therefore resistant to human antibody/complement mediated lysis. 37th Annual Meeting for the Society for the Study of Reproduction (Vancouver, British Columbia, August 1-4) Abst. # 731.
16. Seeberger K, **Dufour JM**, Shapiro J, Lakey J, Korbutt GS. 2005 Isolation of mesenchymal stem cells from adult human pancreas. Keystone Symposia on Molecular Regulation of Stem Cells (Banff, AB, February 10-15).
17. **Dufour JM**, Seeberger K, Korbutt GS. 2005 Neonatal porcine Sertoli cells survive human natural antibody-mediated lysis by inhibiting complement. 38th Annual Meeting for the Society for the Study of Reproduction (Quebec City, Quebec, July 24-27) Abst. # W552.
18. **Dufour JM**, Seeberger K, Hamilton M, Korbutt GS. 2005 Neonatal porcine Sertoli cells inhibit human natural antibody-mediated lysis by preventing formation of the membrane attack complex. 8th Congress of the International Xenotransplantation Association (Goteborg, Sweden, September 10-14) Xenotransplantation 12:408 Abst # P6:07.

19. **Dufour JM**, Rajotte RV, Dixon DE, Korbutt GS. 2006 Sertoli cell line lacks the immunoprotective properties associated with primary Sertoli cells. 31st Annual American Society of Andrology Meeting (Chicago, Illinois, April 8-11) Abst # 61.
20. **Dufour JM**, Rajotte RV, Griswold MD, Dixon DE, Korbutt GS. 2006 Examining the immunoprotective properties of Sertoli cells. 39th Annual Meeting for the Society for the Study of Reproduction (Omaha, Nebraska, July 29-August 1) Abst. # 15. (**Platform Presentation**)
21. Halley KR, **Dufour JM**. 2007 Transplantation of neonatal porcine Sertoli cells to Lewis rats. 40th Annual Meeting for the Society for the Study of Reproduction (San Antonio, Texas, July 21-25) Abst. # 192.
22. Halley KR, **Dufour JM**. 2007 Xenotransplantation of porcine Sertoli cells to non-immunosuppressed rats. Cell Transplantation Society, International Pancreas and Islet Transplant Association and International Xenotransplantation Association Joint Conference (Minneapolis, MN, Septemeber 15-20) Xenotransplantation 14, 460 Abst. # P830.
23. **Dufour JM**, Rajotte RV, Dixon DE, Korbutt GS. 2007 The immunoprotective properties of primary Sertoli cells compared with a mouse Sertoli cell line. Cell Transplantation Society, International Pancreas and Islet Transplant Association and International Xenotransplantation Association Joint Conference (Minneapolis, MN, Septemeber 15-20) Xenotransplantation 14, 548 Abst. # P1149.
24. Halley KR, **Dufour JM**. 2007 Genetically engineered Sertoli cells as a vehicle for gene therapy. Cell Transplantation Society, International Pancreas and Islet Transplant Association and International Xenotransplantation Association Joint Conference (Minneapolis, MN, Septemeber 15-20) Xenotransplantation 14, 548 Abst. # P1150.
25. **Dufour JM**, Halley KR. 2008 Mouse and porcine Sertoli cells can be altered to secrete insulin at levels that reverse diabetes in SCID mice. Keystone Symposia on Islet and Beta Cell Development and Transplantation. (Snowbird, Utah, April 6-11) Abst. # 108.
26. Putrevu SM, TJ Doyle, KH Kim, **JM Dufour**. 2008 Investigating the mechanism involved in the immune protective ability of Sertoli cells. Keystone Symposia on Islet and Beta Cell Development and Transplantation. (Snowbird, Utah, April 6-11) Abst. # 217.
27. **Dufour JM**, Halley KR. 2008 Expression of insulin by Sertoli cells reverses diabetes in SCID mice. 33st Annual American Society of Andrology Meeting (Albuquerque, New Mexico, April 12-15) Journal of Andrology Supplement, 44 Abst. # 50.
28. **Dufour JM**. 2009 Sertoli cells: Immune privilege and role in transplantation. 5th International Workshop Molecular Andrology (Altes Schloss Giessen, Germany, May 8-10) Abst. pg. 15. (**Invited Speaker**)
29. **Dufour JM**, Mital P, Dyson E, Kaur G. 2009 Can transplantation jump-start the proliferative ability of Sertoli cells? 42th Annual Meeting for the Society for the Study of Reproduction (Pittsburgh, Pennsylvania, July 18-22) Abst. # 681.

30. Kaur G, Putrevu SM, Doyle TJ, Kim KH, **Dufour JM**. 2010 Sertoli cells survive as allografts by inhibiting cell-mediated apoptosis. 43th Annual Meeting for the Society for the Study of Reproduction (Milwaukee, Wisconsin, July 30-August 3) Abst. # 23. (**Platform Presentation**)
31. **Dufour JM**, Kaur G, Putrevu SM. 2011 Immune-privileged Sertoli cells survive allotransplantation by altering the cellular immune response. 44th Annual Meeting for the Society for the Study of Reproduction (Portland, Oregon, July 31-August 4) Abst. # 73. (**Platform Presentation**)
32. **Dufour JM, Kaur G**. 2011 Creation of an immune-privileged site with testicular Sertoli cells. XXVI Annual Meeting of the Brazilian Federation of Experimental Biology Societies (Rio de Janeiro, Brazil, August 24-27). (**Mini-symposium**)
33. Mital P, **Dufour JM**. 2011 Role of immune modulation by Sertoli cells for surviving xenotransplantation. Cell Transplantation Society, and International Xenotransplantation Association Joint Conference (Miami, Florida, October 23-26). (**Platform Presentation**)
34. Kaur G, Saadidin M, Pasham M, Long CR, **Dufour JM**. 2011 Sustained expression of insulin by immune-privileged Sertoli cells. Cell Transplantation Society, and International Xenotransplantation Association Joint Conference (Miami, Florida, October 23-26).
35. Kaur G, Putrevu SM, **Dufour JM**. 2011 Immune-privileged Sertoli cells modulate the cellular immune response to survive as allografts. Cell Transplantation Society, and International Xenotransplantation Association Joint Conference (Miami, Florida, October 23-26). (**Platform Presentation**)
36. **Dufour JM**, Kaur G. 2012 Immune-privileged Sertoli cells: Induction of regulatory T cells and therapeutic potential. Testis Immune Function Minisymposium, Dynamics of Testicular Function Module, Society for the Study of Reproduction 45th Annual Meeting (State College, PA, August 13, 2012) Abst. # 26. (**Mini-symposium**)
37. Kaur G, Bowlin B, **Dufour JM**. 2012 Immune Privileged Sertoli cells Survive Allotransplantation by Increased Production of T Regulatory Cells. Society for the Study of Reproduction 45th Annual Meeting (State College, PA, August 14, 2012) Abst. # 614.
38. Mital P, Bowlin B, **Dufour JM**. 2012 Transplantation Can Reinitiate Proliferation of Terminally Differentiated Sertoli Cells, Society for the Study of Reproduction 45th Annual Meeting (State College, PA, August 14, 2012) Abst. # 612.
39. Kaur G, Bowlin B, **Dufour JM**. 2013 Immune privileged Sertoli cells survive as allografts by inducing an anti-inflammatory environment and regulatory T cells. XXIInd North American Testis Workshop “The Foundation of Male Fertility”(San Antonio, TX, April 10-13, 2013) Abst. # 67.
40. Thompson LA, Kaur G, Pasham P, **Dufour JM**. 2013 Optimized lentiviral vector carrying insulin cDNA can stably improve delivery of insulin by immune privileged

Sertoli cells. XXIInd North American Testis Workshop “The Foundation of Male Fertility”(San Antonio, TX, April 10-13, 2013) Abst. # 51.

41. Mital P, Wright K, **Dufour JM**. 2013 Sertoli cells survive xenotransplantation by modulating the macrophages at the graft site to be regulatory versus cytotoxic. XXIInd North American Testis Workshop “The Foundation of Male Fertility”(San Antonio, TX, April 10-13, 2013) Short Talk # 40. **(Platform Presentation)**
42. **Dufour JM**, Kaur G, Paniagua N. 2014 Terminally differentiated, post-pubertal rat Sertoli cells resumed proliferation after transplantation. 39th Annual American Society of Andrology Meeting (Atlanta, Georgia, April 5-8) Andrology Volume 2, Supplement 1, Abst # 112.
43. Kaur G, Mital P, Bowlin B, Paniagua N, **Dufour JM**. 2014 Sertoli cell transplantation- an in vivo model to study resumption in proliferation of nondividing post-pubertal Sertoli cells. Society for the Study of Reproduction 46th Annual Meeting (Grand Rapids, MI, July, 2014). **(Platform Presentation)**
44. **Dufour JM**, Kaur G. Therapeutic and Immunoregulatory Potential of Sertoli Cells. Fertility: from gametogenesis to embryo development, V International Symposium on Animal Biology of Reproduction (Campinas, Sao Paulo, Brazil, October 11, 2014). **(Mini-symposium)**
45. Chilton B, Kaur G, **Dufour JM**. Helicase-like Transcription Factor (Hltf) Is a Key Regulator of Trophoblast Lineage Determination and Transcription of Related Placental Hormones. Pregnancy-Related Reproductive Endocrinology. ENDO 2015 (San Diego, California, March 8, 2015). **(Platform Presentation)**
46. **Dufour JM**, Kaur G Thompson La. Sertoli Cells – Immune Privilege And Novel Roles In Cell Based Gene Therapy. Session 5: Somatic Cells, “Healthy Sperm-Healthy Children” The XXIIIth North American Testis Workshop (Salt Lake City, Utah, April 17, 2015) **(Mini-symposium)**
47. Kaur G, Thompson LS, Dziuk R, **Dufour JM**. Sertoli Cells - Therapeutic Potential In Cell Based Gene Therapy. 49th Annual Gene Families and Isozymes (GFI) Conference (Placencia, Belize, December 11, 2015). **(Mini-symposium)**
48. Grue KA, Joiner HE, Shen CL, Kaur G, Ramalingam L, **Dufour JM**, Moustaid-Moussa N, and Chung E. Effects of high fat diet and exercise intervention before and during pregnancy on the hearts of C57BL/6 mothers. Experimental Biology Meeting (San Diego, California, April 2-6, 2016).
49. Ramalingam L, Allen L, Scoggin S, Shen CL, Tomison MD, Kaur G, **Dufour J**, Chung E, Moustaid-Moussa N. Tocotrienols regulate lipid metabolism in livers of high fat fed mice. Experimental Biology Meeting (San Diego, California, April 2-6, 2016).
50. Allen L, Ramalingam L, Shen CL, Tomison MD, Kaur G, **Dufour J**, Chung E, Moustaid-Moussa N. Tocotrienol dose-dependently improves adiposity and inflammation and increased markers of lipid oxidation in high fat fed mice. Experimental Biology Meeting (San Diego, California, April 2-6, 2016).

51. Shen CL, Kaur G, Ramalingam L, Tomison MD, Chung E, Moustaid-Moussa N, Guo C, Reinoso C, Mo H, **Dufour J.** Dietary tocotrienols improve glucose homeostasis and benefit bone turnover biomarkers in high-fat-diet induced obese male mice. Experimental Biology Meeting (San Diego, California, April 2-6, 2016).
52. **Dufour JM**, Berk SL. Increasing medical student research participation in the SOM at TTUHSC. Executive Leadership in Academic Medicine Leaders Forum (ACE Conference Center, Lafayette Hill, PA, April 13, 2016).
53. Wright K, Dziuk R, Kaur G, **Dufour JM**. Neonatal pig Sertoli cells inhibit complement mediated cell lysis after xenotransplantation in rats . 49th Annual Meeting for the Society for the Study of Reproduction (San Diego, CA, July16-20, 2016). (**Platform Presentation**)
54. Thompson LA, Chastain L, Hilliard T, Swartz L, Lado J, **Dufour JM**. Sex and Gender – Based Medicine in Diabetes: an educational tool for healthcare students. The National Conference on Women's Health Research (Colorado Springs. CO, September 28-30, 2016).
55. Kaur G, Wright K, Mital P, **Dufour JM**. 2016 Neonatal porcine Sertoli cells survive as xenografts by inducing regulatory macrophages at the graft site. Basic Science in Transplantation Meeting (BEST 16) Ft. Lauderdale, FL November 10-12, 2016.
56. Wright K, Kaur G, Tomison MD, Ogunmokun G, Rodriguez A, **Dufour J**, Quintana R, Shen CL. Effect of delta-tocotrienols and statin on glucose homeostasis in high-fat-diet-induced obese mice. Experimental Biology Meeting (Chicago, IL, April 22-26, 2017). *FASEB J* April 2017 31:431.8. (**Oral Presentation; only top 15% selected**).
57. Shen CL, Kottapalli R, Tomison MD, Koboziev I, Web CR, Ramalingam L, Moustaid-Moussa N, Kaur G, **Dufour J**, Chung E, Mo H, Grisham M. Dietary delta-tocotrienol favors abundance and diversity of beneficial microbiomes in obese male mice. Experimental Biology Meeting (Chicago, IL, April 22-26, 2017). *FASEB J* April 2017 31:646.35.
58. Shen CL, Kaur G, Ramalingam L, Tomison MD, Chung E, Moustaid-Moussa N, **Dufour J**, Mo H, Watkins BA. Dietary delta-tocotrienol modifies serum metabolite profiles in diet-induced obese mice. Experimental Biology Meeting (Chicago, IL, April 22-26, 2017). *FASEB J* April 2017 31:800.10.
59. Shen CL, Tomison MD, Kaur G, Ramalingam L, **Dufour J**, Moustaid-Moussa N, Chung E, Mo H, Cao J. Effect of delta-tocotrienols and green tea polyphenols on high-fat-diet-induced bone deterioration in male C57BL/6J mice. Experimental Biology Meeting (Chicago, IL, April 22-26, 2017). *FASEB J* April 2017 31:800.10. (**Oral Presentation; only top 15% selected**).
60. Chung E, Grue KA, Kottapalli R, Kaur G, **Dufour J**, Shen CL. Effects of exercise before and during pregnancy on microbiomes in obese pregnant mice. Experimental Biology Meeting (Chicago, IL, April 22-26, 2017).

61. **Dufour JM**, Greer RH, Kaur G, Wright K, Tomison MD, Ramalingam L, Chung E, Moustaid-Moussa N, Shen CL. Effect of early type 2 diabetes on male fertility. XXIV North American Testis Workshop (Miami, Florida, April 19-22) (2017).
62. **Dufour JM**, Greer RH, Kaur G, Wright K, Tomison MD, Ramalingam L, Chung E, Moustaid-Moussa N, Shen CL. Effect of early type 2 diabetes on male fertility. 42nd Annual American Society of Andrology Meeting (Miami, Florida, April 22-25) (2017).
63. Wright K, Kaur G, Mital P, **Dufour JM**. Induction of Regulatory Macrophages after NPSC Xenotransplantation. 50th Annual Meeting for the Society for the Study of Reproduction (Washington DC, July 13-16, 2017). (**Platform Presentation; only top 13.3%**)
64. Shen CL, Tomison MD, Ramalingam L, Chung E, Moustaid-Moussa N, **Dufour J**. Synergistic effect of dietary delta-tocotrienol and geranylgeraniol on bone properties in obese C57BL/6J mice with obesity-associated type 2 diabetes mellitus. International Congress on Integrative Medicine & Health (Baltimore, MD, May 8-11, 2018).
65. Wankhade U, Chintapalli S, Piccolo BD, Tomison MD, Wright K, Gabrilska R, Kaur G, **Dufour J**, Shankar K, Shen CL. Effects of tocotrienol and statin supplementation on microbiome and glucose homeostasis in inbred obese mice. Nutrition 2018. (Boston, MA, June 9-12, 2018). (**Oral Presentation**)
66. Mueller K, **Dufour J**. The Effects of Genetically Engineered Sertoli Cell produced C-peptide on Expression of Key Endothelial Cell Genes in Hyperglycemic Environments. 2018 American Physician Scientists Association South Regional Meeting (Houston, TX, September 29, 2018).
67. Wright K, Kaur G, Mital P, **Dufour J**. Induction of regulatory macrophages after Neonatal Pig Sertoli cell xenotransplantation. 2018 American Physician Scientists Association South Regional Meeting (Houston, TX, September 29, 2018). (**Best Poster**)
68. Kaur G, **Dufour JM**. Mechanisms of Sertoli Cell Immune Regulation. 52nd Annual Gene Families and Isozymes (GFI) Conference (Protrero, Costa Rica, December 6, 2018). (**Mini-symposium**)
69. Kaur G, Helmer RA, **Dufour JM**, Chilton BS. Hlrf-deletion causes immune destruction of pancreatic beta cells during development. ENDO 2019 (New Orleans, LA, March 23, 2019).
70. **Dufour JM**, Kaur G. Mechanisms of Sertoli Cell Immune Regulation. 44st Annual American Society of Andrology Meeting (Chicago, Illinois, April 6-9, 2019). (**Mini-symposium**)
71. Shen CL Kaur G, **Dufour JM**, Ramalingam L, Chung E, Moustaid-Moussa N, Chao JJ. Effect of geranylgeraniol and green tea polyphenols on high-fat-diet-induced bone deterioration in male B6 mice. Nutrition 2019 (Baltimore, MD June 8-11, 2019).
72. **Dufour JM**, Mueller K, Moreno T, Kaur G. Effects of Sertoli cell secreted C-Peptide on high glucose induced endothelial cell damage. 52th Annual Meeting for the Society for the Study of Reproduction (San Jose, CA, July 18-21, 2019).

73. Wang R, Ji G, **Dufour JM**, Kaur G, Miranda JM, Washburn RL, Hibler T, Luk HY, Neugebauer V, Shen CL. Ginger Mitigates Pain Behaviors and Improves Colon Health in Obese Rats with Diabetic Neuropathy. ObesityWeek The Obesity Society Annual Meeting (Online conference due to COVID-19, November 2-6, 2020).
74. Washburn RL, Kaur G, **Dufour JM**. Xenogeneic Sertoli cells express complement inhibitory proteins necessary for their survival of hyperacute rejection. Annual Meeting for the American Association of Immunologists. Virtual Immunology2021 (May 10-15, 2021).
75. Taylor H, Kaur G, **Dufour JM**. Sertoli cell induced Tregs: a critical component of Sertoli cell immune-regulation in transplantation. 104th Annual Meeting for the American Association of Immunologists. Virtual Immunology2021 (May 10-15, 2021). (**Oral Presentation**) *2021 AAI Trainee Abstract Award*.
76. Washburn RL, Kaur G, **Dufour JM**. Expression of CD46 and CD55 are critical to testicular Sertoli cell survival of hyperacute rejection. Texas Forum for Reproductive Sciences 26th Annual Virtual Meeting. (June 17-18, 2021).
77. Taylor H, Kaur G, **Dufour JM**. Sertoli cell induced Tregs: Guardians against inflammatory immune response. Texas Forum for Reproductive Sciences 26th Annual Virtual Meeting. (June 17-18, 2021). (**Platform Presentation**) *Second Place 2021 Texas Forum for Reproductive Sciences Platform Competition Award*
78. Washburn RL, Kaur G, Reilly B, **Dufour JM**. Complement inhibition by immunoregulatory Sertoli cells: Paving the road to allograft and xenograft survival. 28th International Complement Virtual Workshop. (December, 6-10, 2021)
79. Jansen M, Pressley TA, Bobulescu IA, Villalobos A, **Dufour JM**. Interactive virtual small group sessions using Zoom breakout rooms with Google Slides. STFM 2022 Conference on Medical Student Education. (San Antonio, Texas, January 27-30, 2022)
80. Washburn RL, Kaur G, Chilton B, Reilly B, **Dufour JM**. Seq'ing the Sertoli cell complement inhibitory signature: Paving the pathway to prolong transplant survival. Innate Immunity: Complement and Beyond, Keystone Symposia, (Snowbird, UT, April, 3-6, 2022)
81. Jansen M, Pressley TA, Bobulescu IA, Villalobos A, **Dufour JM**. Design of virtual team-based learning sessions. 2022 SGEA Virtual Regional Meeting Finding Creativity for Complex Challenges (March 28-29, 2022)
82. Taylor H, Kaur G, **Dufour JM**. Tregs: The Sertoli cell's secret weapon in transplant survival. Annual Meeting for the American Association of Immunologists. Immunology2022 (Portland, OR May 6-10, 2022).
83. Washburn RL, Kaur G, Chilton B, Reilly B, **JM Dufour**. Seeking the Sertoli cell complement inhibitory signature to prolong transplant survival. Annual Meeting for the

American Association of Immunologists. Immunology2022 (Portland, OR May 6-10, 2022).

84. **Dufour JM**, Washburn RL, Taylor H, Kaur G. Immunosuppressive functions of Sertoli cells. Male Reproductive Immunology. American Society for Reproductive Immunology. (Nashville, TN, May 22-26, 2022).
85. Hussain S, Mccabe P, Lee V, Hewetson A, Webster D, **Dufour JM**, Schneider B, Kaur G. Highlighting key elements of the pre-med program at TTUHSC that prepares the students to be successful in Medical school. Virtual Pathway Programs and Bridges conference. (July 21, 2022).
86. Anna Sabu-Kurian, Hibler H, Washburn RL, Boothe K, Kaur G, **Dufour JM**. The Role of Macrophages in Sertoli Cell Transplant Survival Without the Use of Immunosuppressive Drugs. American College of Surgeons Clinical Congress 2022. (San Diego, CA October 16-20, 2022).
87. Kaur G, Bishop KN, Webster D, **Dufour J**, Schneider B. How a medical education master's program promotes student resiliency and success in medical school. Anatomy Connected 2023. (Washington DC, March 25-27, 2023) (**Oral talk**)
88. Chilton BS, Kaur G, Helmer RA, Martinez-Marin D, Sennoune SR, Washburn RL, Martinez-Zaguilan R, **Dufour JM**. Helicase-like transcription factor (Hltf) protein isoforms: a matter of life and death. 5th International Caparica Conference in Splicing (Caparica, Portugal, July 17-20, 2023).
89. Shen CL, Lovett J, Jones B, **Dufour J**, Dunn D, Berk S. Establishing a Distinction in Medical Research Program at Texas Tech University Health Sciences Center: Four-Year Structured Medical Research Curriculum for Medical Students. 2023 SGEA (Southern Group of Educational Affairs) Annual Conference (Nashville, TN, March 22-25, 2023).
90. Berk S, Rudder J, Lovett J, Stroever S, Jones B, **Dufour J**, Dunn D, Shen CL. The Medical Student Summer Research Program (MSSRP at Texas Tech University Health Sciences Center: Identifying Barriers and Providing Solutions to Build Research Foundations. 2023 SGEA (Southern Group of Educational Affairs) Annual Conference (Nashville, TN, March 22-25, 2023).
91. Bennett AI, Washburn RL, **Dufour JM**, Mechref Y. LC-MS/MS Characterization of Glycans in Pig Sertoli Cells to Understand Complement System Behavior. American Society for Mass Spectroscopy. (Houston TX, June 4-8, 2023)
92. Hibler T, **Dufour JM**. Going with the flow: developing a multicolor flow cytometry panel for detection of immune cells in a reproductive setting. Basic Science Workshop, American Society for Andrology. (Boston, MA, April 19-23, 2023).
93. Bernstein E, Chilton B, **Dufour J**, Kaur G. Connecting the Layers: Enhancing Medical Students Knowledge of Male and Female Perineum Anatomy. 40th Annual Meeting of

the American Association of Clinical Anatomists (Orlando FL July 9-12, 2023). (**Poster Award**)

94. Kaur G, Webster D, **Dufour JM**, Bishop K, Schneider BL. From postbac triumph to medical school mastery: secretst to less stress and student success. 2024 SGEA (Southern Group of Educational Affairs) Annual Meeting (Houston, TX April 11-13, 2024) (**Oral presentation**)
95. Bennett AI, Washburn RL, Adeniyi M, Sandilya V, **Dufour JM**, Mechref Y. Characterization of Proteins in Pig Sertoli Cells to Understand Complement System Behavior and Possible Xenotransplantation Applications Using LC-MS/MS Techniques. American Society for Mass Spectroscopy. (Anaheim, CA June 2-6, 2024)
96. Deshmukh H, Santos JM, Bender M, **Dufour JM**, Lovett J, Shen CL. Peanut shell extract improves mitochondrial function in db/db mice via suppression of oxidative stress and inflammation. Nutrition 2024 (Chicago, IL, June 29 to July 2, 2024)
97. Rodriguez A, Washburn RL, Kaur G, **Dufour JM**. Sertoli Cell Regulation of the Complement System. 29th Annual Texas Forum for Reproductive Sciences (UT Southwestern, Dallas, TX April 18-19, 2024) (**Oral presentation**)
98. Mendóza R, Deshmukh H, Santos JM, Sivaprakasam S, **Dufour JM**, Driver Z, Shen CL. Effect of Peanut Shell Extract and Luteolin on Colonic Mitochondrial Physiology in a Murine Model of Metabolic Syndrome. American College of Gastroenterology 2024 Annual Meeting (Philadelphia, PA, October 25-30, 2024)
99. Shen CL, Deshmukh H, Santos JM, Bender M, Elmassry MM, Driver Z, Sivaprakasam S, Miranda JM, **Dufour JM**, Lovett J. Peanut shell extract and luteolin improve glucose homeostasis and modify gut microbiome composition in type 2 diabetes-prone mice. 13th Annual Conference American Council for Medically Active Plants (Prairie View, TX, October 3-6, 2024)
100. Babcock RL, Martinez-Marin D, Boligala G, Stroman G, Rahman RL, **Dufour JM**, Pruitt K. Identifying roles of nuclear DVL1, a Wnt-pathway protein, in mRNA regulation and splicing. 2024 Symposium on RNA Biology XV, RNA Tool and Target meeting (Trent Semans Center, Duke University Medical Center, Durham, North Carolina, November 14-15, 2024).
101. Rodriguez A, Torres Guimaraes JP, Washburn R, Kaur G, **Dufour JM** Comprehensive Analysis of Sertoli Cell Resistance To Complement-Mediated Lysis: Implications For Immune Modulation And Transplant Survival. 56th Annual Gene Families and Isozymes (GFI) Conference (San Pedro, Belize, December 8-13, 2024)
102. Martinez-Marin D, Helmer BA, Kaur G, Washburn RL, Martinez-Zaguilan R, Sennoune SR, **Dufour JM**, Chilton BS. Lymphovascular metastatic niches are convergent sites for redox homeostasis in an *HTLF*-deleted CDX/TME model of colorectal cancer. Keystone Symposia, Tumor Microenvironment: Metastasis and the Host (Banff, AB, Canada, January 18-21, 2025)

103. Li T, Li W, **Dufour JM**, Walker W, Yuan S, Zhang Z. Mouse SPAG6L, a key cytoskeleton modulator essential for male germ cell development, is not required for Sertoli cell function. American Society for Andrology and International Congress of Andrology. (Washington, DC, March 29 -April 1, 2025)
104. McCoy M, **Dufour JM**, Kaur G. Reel Quick Reviews: From Distraction to Development. American Association for Anatomy, Anatomy Connected. (Portland, Oregon, March 28-31, 2025)
105. Guimaraes JP, Rodriguez A, Kaur G, **JM Dufour**. Shielding from Complement Attack! Sertoli Cells Survive Complement Activation and Express Anti-Inflammatory Genes. Annual Meeting for the American Association of Immunologists. Immunology2025 (Honolulu, HI, May 3-7, 2025).
106. Miller B, **Dufour JM**, Kaur G. Evaluating the use of supplemental resources for diabetes education throughout the medical school curriculum. International Association of Medical Science Education (Calgary Alberta, June 14-17, 2025)
107. Babcock RL, Kaur G, Bright RK, **Dufour JM**. Testicular Sertoli cells establish a unique cytokine milieu and require T regulatory cells to survive allotransplantation. American Society for Andrology. (Scottsdale, AZ, April 18-21, 2026) **Flash Talk**
108. Rodriguez A, Babcock RL Guimaraes JP, Kaur G, **Dufour JM**. Harnessing testicular Sertoli cell immune privilege to improve xenotransplantation. American Society for Andrology. (Scottsdale, AZ, April 18-21, 2026) **Flash Talk**
109. Babcock RL, Kaur G, Bright RK, **Dufour JM**. Testicular Sertoli cells establish an immunomodulatory graft environment to survive allotransplantation. North American Testis Workshop. (Scottsdale, AZ, April 15-18, 2026)
110. Rodriguez A, Babcock RL Guimaraes JP, Kaur G, **Dufour JM**. Sertoli cell regulation of the complement system. North American Testis Workshop. (Scottsdale, AZ, April 15-18, 2026) **Platform presentation**