

BLFK

Curriculum Vitae

BARBARA LEE-FAUBERT KAPLAN

November 2025

 PERSONAL

Home Starkville, MS 39759
517-896-9875 cell

Business Mississippi State University
College of Veterinary Medicine
Department of Comparative Biomedical Sciences
Center for Environmental Health Sciences
PO Box 6100
240 Wise Center Drive (for express delivery)
Mississippi State, MS 39762
662-325-1113
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ORCID 0000-0002-1992-4145

 EDUCATION

2001 Doctor of Philosophy
Pharmacology and Toxicology
Michigan State University
East Lansing, MI
Dissertation Title: *Cannabinoid-Induced Immune Suppression in Mouse Splenocytes Involves both Cannabinoid Receptor-Dependent and -Independent Mechanisms*

1992 Bachelor of Sciences
Environmental Toxicology
University of California, Davis
Davis, CA

 EMPLOYMENT

July 2025-present Professor
Mississippi State University
Center for Environmental Health Sciences
Department of Comparative Biomedical Sciences
College of Veterinary Medicine
Mississippi State, MS

July 2019-July 2025 Associate Professor (with tenure)
Mississippi State University
Center for Environmental Health Sciences

Department of Comparative Biomedical Sciences
(name change from Basic Sciences in Fall 2020)
College of Veterinary Medicine
Mississippi State, MS

August 2013-June 2019 Assistant Professor
Mississippi State University
Center for Environmental Health Sciences
Department of Basic Sciences
College of Veterinary Medicine
Mississippi State, MS

July 2004-June 2013 Research Assistant Professor
Michigan State University
Center for Integrative Toxicology
Neuroscience Program (joined August 2011)
Department of Pharmacology and Toxicology
East Lansing, MI

May 2001-May 2004 Postdoctoral Research Associate
University of Chicago
Department of Surgery
Chicago, IL

March 1994-July 1995 Chemist III
Quanterra, Inc.
West Sacramento, CA

July 1992-March 1994 Chemist I
Eureka Laboratories, Inc.
Sacramento, CA

SCIENTIFIC AND PROFESSIONAL SOCIETIES

Member, Society of Toxicology and Immunotoxicology specialty section
Member, South Central Chapter of the Society of Toxicology
Member, International Cannabis Research Society

AWARDS

June 2024 Michigan State University Department of Pharmacology and Toxicology
Kenneth E. Moore Distinguished Alumna Award
March 2024 Society of Toxicology Public Communications Award
September 2023 Finalist, Mississippi State University Office of Research and Economic
Development Mid-career Research Scholar Award
August 2023 Mississippi State University Division of Agriculture, Forestry, and
Veterinary Medicine Research Superior Faculty Award
December 2022 Mississippi State University College of Veterinary Medicine Dean's
Pegasus Award for Research/Creative Activity
July 2021 Boehringer Ingelheim Research Mentorship Award

April 2021	Nominee, Mississippi State University Graduate Student Association Outstanding Advisor Award
February 2020	Society of Toxicology ToxScholar Travel Grant to visit Mississippi University for Women (\$200) <i>in person visit canceled due to COVID</i>
April 2019	Nominee, Mississippi State University Graduate Student Association Outstanding Advisor Award
April 2019	Nominee and accepted member, Omega Chapter of Phi Zeta Veterinary Academic Honor Society
February 2019	Society of Toxicology ToxScholar Travel Grant to visit Mississippi University for Women (\$220)
October 2018	Zoetis Award for Veterinary Research Excellence, Mississippi State University College of Veterinary Medicine
April 2018	Mississippi State University Division of Agriculture, Forestry, and Veterinary Medicine Faculty Research Award
March 2018	Society of Toxicology ToxScholar Travel Grant to visit Mississippi University for Women (\$180)
February 2017	Society of Toxicology ToxScholar Travel Grant to visit Mississippi University for Women (\$200)
October 2013	Mississippi State University Graduate Student Recruitment Grant (\$500)
March 2012	Immunotoxicology Specialty Section of the Society of Toxicology Outstanding Young Investigator Award
March 2007	American Association of Immunologists Junior Faculty Travel Award (\$500)
May 2006	National Food Safety and Toxicology Center Research Expense Award (\$1800)
June 2000	International Cannabis Research Society Annual Meeting Student Travel Award
May 1997	Michigan State University Chapter of Sigma Xi Graduate Student Research Grant (\$500)



PROFESSIONAL DEVELOPMENT

October 2023	Accepted attendee, Nancy Walton Laurie Leadership Institute of Chi Omega Flagship Weekend “The Intentional Leader”, Memphis, TN
March 2022	Organizer and moderator, Scientific Liaison Coalition, “Toxmasters: Feedback Makes Perfect”, webinar
February and March 2022	Organizer, Mississippi State University Office of Research and Economic Development, “Science Communication: Practice Makes Progress” webinar and seminar, Starkville, MS
September 2021-December 2022	Accepted Participant, Mississippi State University Donald Zacharias Faculty Leadership Program, Starkville, MS Myers-Briggs personality type ESTJ Extraversion, sensing, thinking, judging
June 2021	Attendee, AAAS SciLine webinar “Ask a Reporter Anything: A Briefing for Scientists About how the News Works”, virtual
September 2020	Participant, Mississippi Science Communication Summit, virtual

May 2020	Certificate, 'Online Teaching 101: Best Practices in Online Instruction', Mississippi State University Center for Teaching and Learning, virtual
August 2018	Participant, Mississippi State University Alda-Kavli Leadership Workshop, Mississippi State University, Starkville, MS
October 2017	Accepted attendee, Nancy Walton Laurie Leadership Institute of Chi Omega Flagship Weekend "The Resilient Leader", Memphis, TN <i>Gallup Strengths Finder 2.0</i> <i>Top 5 strengths identified: Woo, Positivity, Communication, Input, Learner</i>
June 2017	Accepted attendee, Alan Alda Center for Communicating Science Boot Camp, Stony Brook University, Long Island, NY
June 2008	Accepted attendee, Grantsmanship Workshop, National Institutes of Health, National Center for Complementary and Alternative Medicine, Bethesda, MD

TEACHING EXPERIENCE

Mississippi State University College of Veterinary Medicine

CVM 5033	Veterinary Immunology Innate immunology lectures, Summers 2014-present Innate immunity section director, Summers 2016-present
CVM 6021	Essentials of Research Practice and Professionalism Laboratory sociology and etiquette lectures, Fall semesters, 2014-present
CVM 8011	Graduate Research Seminar Course Director, Fall 2015, Spring 2019, Fall 2022 Course Co-director, Fall 2018, Spring 2022

Mississippi State University Department of Comparative Biomedical Sciences

CVM 4193/6193	Medical Pharmacology CNS drugs, immunopharmacology, chemotherapeutics, biologics, and steroid lectures, Spring semesters 2015-present Course co-director, Spring semesters 2015-present
CVM 8303	Advanced Immunology Immunotoxicology lectures, Spring semesters, 2014-present
CVM 8523	Organ Systems Toxicology I Immunotoxicology lectures, Spring semesters (even years), 2014-present
CVM 8523	Organ Systems Toxicology I Toxic responses of the blood lectures, Spring semesters (even years), 2024-present

Mississippi State University Department of Biological Sciences

BIO 4413	Immunology T cell development lecture, March 2014
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Michigan State University Department of Pharmacology and Toxicology

PHM 431	Pharmacology of Drug Addiction Marijuana and cannabinoids lectures, Fall semesters, 2005-2012
PHM 820	Cellular and Molecular Pharmacology and Toxicology Halogenated aromatic hydrocarbons lectures, Fall semesters, 2004-2012
PHM 450	Introduction to Chemical Toxicology Liver toxicology, metals toxicology, and immunotoxicology lectures, Spring semesters (various), 1999-2011

 FACULTY MENTORING

Arun Venugopalan November 2024-present

 GRADUATE MENTORING

Mississippi State University

Ryanne Murray	January 2024-present Masters of Science Veterinary Medical Sciences Concentration ▪ Mississippi State University College of Veterinary Medicine Office of Research and Graduate Studies (ORGS) Graduate Student Travel Award, November, 2025 ▪ 2nd place, Graduate student oral presentation, Mississippi State University Graduate Research Symposium, October, 2025 ▪ 3rd place, Graduate student poster presentation, Mississippi State University College of Veterinary Medicine Research Day, August 2025
Arpita Deb	June 2023-present Doctor of Philosophy Environmental Toxicology Concentration ▪ Mississippi State University College of Veterinary Medicine Office of Research and Graduate Studies (ORGS) Graduate Student Travel Award, March 2025 ▪ Mississippi State University College of Veterinary Medicine Awardee and Representative for the 2025 Graduate Research Assistant of the Year, March 2025 ▪ 2nd place, Graduate student oral presentation, Society of Toxicology South Central Regional Chapter Annual Meeting, December 2024 ▪ 1st place, Graduate student oral presentation, Mississippi State University College of Veterinary Medicine Research Day, August 2024 ▪ 3rd place, Graduate student poster presentation, Mississippi State University Graduate Student Symposium, February 2024
Christa Frodella	June 2020-December 2022 Doctor of Philosophy Veterinary Medical Sciences Concentration

Dissertation title: *Unraveling the Anti-inflammatory Mechanisms and Efficacy of Cannabidiol on the Progression of a Murine Model of Multiple Sclerosis from the Innate to the Adaptive Immune System to Clinical Symptoms*

- 2nd place, Graduate student poster presentation, Mississippi State University College of Veterinary Medicine Annual Research Day, August 2022
- 1st place, Graduate student poster presentation, Mississippi State University Graduate Student Symposium, June 2022
- Mississippi State University Office of Research and Economic Development Graduate Student Travel Award, March 2022

Brittany Szafran

July 2014-December 2020

Doctor of Philosophy (DVM/PhD program; DVM earned 2017),
Environmental Toxicology Concentration (Co-PI with Matthew Ross),
Dissertation title: *The Role of the Endocannabinoid System in Immune Homeostasis with an Emphasis on the Immune Effects of*

Carboxylesterase Inhibition by Chlorpyrifos in Murine Lung Tissue

- Mississippi State University College of Veterinary Medicine 2021 Graduate Student Hall of Fame Award
- 2021 Boehringer Ingelheim Graduate Veterinary Research Award
<https://vimeo.com/579189477/92a855264c>
- Grand Champion Runner Up Mississippi State University 3-Minute Thesis (3-MT) competition, November 2020 (virtual)
- 2nd place Graduate student poster presentation, Mississippi State University Graduate Research Symposium, October 2020 (virtual)
- 2nd place, Graduate student poster presentation, Mississippi State University College of Veterinary Medicine Research Day, August 2020 (virtual)
- Mississippi State University Office of Research and Economic Development Graduate Student Award for the College of Veterinary Medicine, March 2020
- Society of Toxicology Outstanding Graduate Student Leadership Committee Award, March 2019
- 2nd place, Graduate student oral presentation, Mississippi State University College of Veterinary Medicine Research Day, August 2019
- 2nd place, Graduate student oral presentation, Society of Toxicology South Central Regional Chapter Annual Meeting, October 2018
- 1st place, Graduate student oral presentation, Mississippi State University College of Veterinary Medicine Research Day, August 2018
- Society of Toxicology Roger O. McClellan Student Award, March 2018
- 2nd place, Graduate student poster presentation, Mississippi State University Graduate Research Symposium, February 2018
- 2nd place, Graduate student poster presentation, Society of Toxicology South Central Regional Chapter Annual Meeting, October 2017
- Student representative for Society of Toxicology Comparative and Veterinary Specialty Section, May 2017-Dec 2020

James Nichols

January 2015-May 2020

DVM, Doctor of Philosophy (PhD started while in DVM; DVM earned 2016)

Veterinary Medical Sciences, Infectious Disease Concentration

Dissertation title: *Exploring the immunosuppressive properties of various agents in the experimental autoimmune encephalomyelitis models of multiple sclerosis*

- Mississippi State University College of Veterinary Medicine 2020 Graduate Student Hall of Fame Award
- 3rd place, Graduate student poster presentation, Mississippi State University College of Veterinary Medicine Research Day, August 2018
- Mississippi State University College of Veterinary Medicine Office of Research and Graduate Studies (ORGS) Graduate Student Travel Award, July 2018
- International Cannabinoid Research Society Student Travel Award, July 2018
- American Association of Immunologists 2018 Trainee Poster Award, May 2018
- The C. Edward Couvillion DVM/PhD Endowed Graduate Scholarship, October 2017
- Selected for platform presentation for Veterinary Science Training Program (VSTP) Colloquium at NIH, August 2017

Michigan State University

Tyrell Simkins August 2007-January 2014
Doctor of Philosophy (DO/PhD program), Neuroscience Program (Co-PIs Keith Lookingland and John Goudreau)
Dissertation Research Director for PhD dissertation: *The Function of Sympathetic Innervation in the Spleen and the Role of Endogenous CB₁/CB₂ Receptor Signaling*

POSTDOCTORAL TRAINEE MENTORING

Mississippi State University

Evangel Kummari September 2015-May 2019
Postdoctoral researcher

- Outstanding Poster Presentation Award, UMMC Neuroscience Research Day, Jackson, MS, April 2017
- 2nd place, Postdoctoral poster presentation, Society of Toxicology South Central Regional Chapter Annual Meeting, Baton Rouge, LA, October 2017

Saphala Dhital April 2014-September 2016
Research associate

Eun-Ju Yang March 2014-November 2015
Postdoctoral researcher

VETERINARY SUMMER RESEARCH EXPERIENCE (SRE) MENTORING

Emily Wilson 1st year DVM summer research scholar 2025

Peter Spoelker	1 st year DVM summer research scholar 2024
Sabrina Dixon	1 st year DVM summer research scholar 2023
Karis Blankenship	1 st year DVM summer research scholar 2022
Matt Mitsch	1 st year DVM summer research scholar 2022 ▪ 1st place, Oral Presentations for SRE Category, MSU-CVM Research Day, August 2022
Madison Mertz	1 st year DVM summer research scholar 2021
Abbey Fleming	1 st year DVM summer research scholar 2020
Carly Campbell	1 st year DVM summer research scholar 2020
Mimi Pelanne	1 st year DVM summer research scholar 2019
Clare Brown	1 st year DVM summer research scholar 2018
Jessica Sherman	1 st year DVM summer research scholar 2017 ▪ 1st place, Oral Presentations for SRE Category, MSU-CVM Research Day, August 2017
Christa Gilfeather	1 st year DVM summer research scholar 2016
Yianelly Rodriguez	1 st year DVM summer research scholar (Tuskegee University)
Ruiz	2015
Brittany Szafran	1 st year PhD/DVM summer research scholar 2014

VETERINARY STUDENT RESEARCH INITIATIVE (VSRI) MENTORING

Clare Brown	4 th year DVM student research rotation 2020 ▪ 2024 MSU CVM Phi Zeta Chapter Manuscript award for Brown, <i>et. al.</i>, 2023, <i>Vet Immunol Immunopathol</i> doi 10.1016/j.vetimm.2023.110667
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POST BACCALAUREATE STUDENT MENTORING

Abigail Bell	part time research associate, May 2019-May 202 ▪ 3rd place, Non-student non-faculty poster presentation, Society of Toxicology South Central Regional Chapter Annual Meeting, October 2019
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UNDERGRADUATE MENTORING

Mississippi State University

Payton Kelly-vanDomelon	Mississippi State University undergraduate student worker August 2025-present
Josie Baird	Mississippi State University undergraduate student worker May 2024-present
Aidan Gerber	Mississippi State University undergraduate directed independent study January 2025-May 2025 ▪ 1st Place Award, Poster Presentation, Biomedical Research Special Area Competition, Mississippi State University Shackouls Honor College Undergraduate Research Symposium, Mississippi State, MS, April 2025
Thomas Morse	Mississippi State University undergraduate student worker January 2025-May 2025
Edwin Morse	Mississippi State University undergraduate student worker

Kacy Crothers	January 2025-May 2025 Mississippi State University undergraduate student worker May 2024-August 2024
Audrey Miceli	Mississippi State University undergraduate student worker January 2022-April 2024
Kailyn Lott	Mississippi State University undergraduate student worker January 2022-April 2024
Lucy Sword	Mississippi State University undergraduate student worker September 2022-May 2023
Olivia Cresswell	Mississippi State University undergraduate volunteer, directed independent study and Provost Scholar January 2020-May 2023 Honors college thesis title: <i>Cannabinoids Modulate T Cell Function in vitro Following Stimulation with a Peptide Associated with Multiple Sclerosis</i> 2nd place (tie), Undergraduate student poster presentation, Society of Toxicology South Central Regional Chapter Virtual Annual Meeting, November 2021
Quintrell Sturgis	Mississippi State University Mississippi INBRE Research Scholars Mentor Program May 2021-July 2021
Ashleigh Nicaise	Mississippi State University undergraduate student worker January 2019-June 2021 1st Place Poster Award, Undergraduate Division Ecology, Cellular and Molecular Biology, Mississippi Academy of Sciences Summer Meeting, Starkville, MS, July 2019
Randi Jenkins	Mississippi State University directed independent study January 2020-April 2020
Erin (Rushing) Sears	Mississippi State University undergraduate student worker November 2017-May 2020 3rd Place Award, Poster Presentation, Biological Sciences and Engineering Category, Mississippi State University Shackouls Honor College Undergraduate Research Symposium, Mississippi State, MS, April 2018
Amye McDonald	Mississippi State University undergraduate student worker and Provost Scholar August 2017-May 2020 Honors College Thesis Title: <i>Effect of TCDD on B Cell Populations in Various Anatomic Locations in EAE</i> 1st place, Undergraduate student poster presentation, Society of Toxicology South Central Regional Chapter Annual Meeting, October 2018
Jaylan Sears	Mississippi State University undergraduate volunteer August 2018-May 2019 - Mississippi State University Shackouls Honor College Travel Award, March 2019 3rd Place Award, Poster Presentation, Biological Sciences and Engineering Category, Mississippi State University Shackouls Honor College Undergraduate Research Symposium, Mississippi State, MS, April 2019
Luke Wojohn	Mississippi State University undergraduate student worker June 2017-December 2018

- Jada Parish Mississippi State University undergraduate volunteer
October 2014-May 2016
- 2nd Place Award, Poster Presentation, Biological Sciences and Engineering Category, Mississippi State University Shackoul's Honor College Undergraduate Research Symposium, Mississippi State, MS, April 2015
- Gabriella (Yray) Decker Mississippi University for Women Mississippi INBRE Research Scholars Mentor Program
May 2016-July 2016
- Honorable Mention, Poster Presentation, Mississippi Academy of Sciences Annual Meeting, Hattiesburg, MS, February 2017
- Robert Grady Mississippi State University undergraduate volunteer
September 2015 - May 2016
- Leanne Cornelius Mississippi State University undergraduate volunteer
February 2014-April 2015
- William Parker Mississippi State University undergraduate volunteer
January 2014-May 2014

Michigan State University

- Anthony Bach Michigan State University undergraduate volunteer
May 2011-August 2011 and June 2012-August 2012
- Nidhal Ghraib Michigan State University undergraduate volunteer
October 2010-April 2011
- Ryan DasGupta Michigan State University undergraduate volunteer
September 2009-December 2010
- Nicholas Lichorobiec Michigan State University undergraduate volunteer and independent study
March 2009-July 2010
- Lauren Topper Michigan State University undergraduate volunteer
March 2008-July 2010
- Sapna Sharma Kalamazoo College senior individualized project
June 2009-September 2009
- Ericka Velez University of Puerto Rico at Cayey
Michigan State University McNair-Summer Research Opportunities Program (SROP) Scholars Program
May 2009-August 2009 and May 2010-August 2010

HIGH SCHOOL STUDENT MENTORING

- Chaeyeong Ahn junior-senior at Starkville High School, Starkville, MS
January 2023-April 2024
- 1st place, State of Mississippi Region V Science Fair 2024, Excellence in Animal Investigations section
 - Regeneron Biomedical Science Award, Mississippi Science and Engineering Fair, 2024
- Jordan Rogers senior at Mississippi School of Math and Science, Columbus, MS
May 2021-August 2021

STUDENT ADVISORY COMMITTEES

Mississippi State University

Nicole Busby	Doctor of Philosophy, Department of Comparative Biomedical Sciences Environmental Toxicology track PI Janice Chambers, October 2025 - present
Taylor Shamblin	Doctor of Philosophy, Department of Comparative Biomedical Sciences Environmental Toxicology track PI Nicole Ashpole, August 2025-present
Vanessa Emming	Masters of Science, Department of Clinical Sciences Veterinary Medical Sciences track PI John Thomason, November 2024-present
Lydia Ogebule	Doctor of Philosophy, Department of Comparative Biomedical Sciences Environmental Toxicology track PI Janice Chambers, August 2023-present
Oluwabori Adekanye	Doctor of Philosophy, Department of Comparative Biomedical Sciences PI Matthew Ross, May 2023-present
Yi Chang	Doctor of Philosophy, Department of Clinical Sciences Veterinary Medical Sciences track PI Andrew Mackin, March 2023-present
Cassandra Barber	Doctor of Philosophy (DVM/PhD program), Department of Pathobiology and Population Medicine Veterinary Medical Sciences track PI Amelia Woolums, June 2021-present
Chiquita Price	Doctor of Philosophy, Department of Comparative Biomedical Sciences Environmental Toxicology track PI Janice Chambers, August 2019-May 2023
Darby Stanford	Doctor of Philosophy, Department of Comparative Biomedical Sciences Environmental Toxicology track PI Janice Chambers, January 2019-May 2023
Katie Strickland	Masters of Science, Department of Comparative Biomedical Sciences Environmental Toxicology track PI Janice Chambers, October 2021-May 2023
Kylee Burroughs	Masters of Science, Department of Comparative Biomedical Sciences Environmental Toxicology track PI Russell Carr, October 2021-July 2022
Afzaal Nadeem Mohammad	Doctor of Philosophy, Department of Basic Sciences Environmental Toxicology track PI Russell Carr, November 2014-June 2018
Juyeun Lee	Doctor of Philosophy, Department of Basic Sciences Veterinary Medical Sciences track PI Keun Seok Seo, April 2016-March 2018

Michigan State University

Weimin Chen	Doctor of Philosophy, Department of Microbiology and Molecular Genetics PI Norbert Kaminski, August 2008-February 2014
Shawna D'Ingillo	Master of Science, Department of Pharmacology and Toxicology PI Norbert Kaminski, January 2012-November 2013
Jose Suarez-	Doctor of Philosophy, Comparative Medicine and Integrative Biology

Martinez	Program PI Norbert Kaminski, August 2012-August 2013
Natalia Kovalova	Doctor of Philosophy, Department of Pharmacology and Toxicology PI Norbert Kaminski, August 2010-August 2013
Thitirat	Doctor of Philosophy, Department of Pharmacology and Toxicology
Ngaoteprutaram	PI Norbert Kaminski, August 2008-February 2013
Priyadarshini Raman	Doctor of Philosophy, Department of Pharmacology and Toxicology PI Norbert Kaminski, February 2007-December 2011
Peer Karmaus	Doctor of Philosophy, Department of Cell and Molecular Biology PI Norbert Kaminski, November 2006-August 2011
Haitian Lu	Doctor of Philosophy, Department of Pharmacology and Toxicology PI Norbert Kaminski, June 2007-October 2010
Kelly Janis	Doctor of Philosophy (DO/PhD program), Neuroscience Program PI John Goudreau, February 2007-September 2008



FUNDING

PENDING

PI, "Cannabidiol (CBD)-induced Oxytocin is a Biomarker for Anti-inflammatory Efficacy in EAE and MS"

R03	6/1/26-5/31/28
NIH/National Institute for Allergy and Infectious Disease	\$100,000 total directs

CURRENT

Co-PI, "Quantitative Analysis of Exosomes and microRNA in Dogs with Naturally Occurring Osteoarthritis Secondary to Cranial Cruciate Ligament Rupture"

MSU Office of Research and Graduate Studies	5/1/25-4/30/27
Advancing Collaborative Research Grant	\$30,000 total directs

PI, "Investigation of AhR Ligands on FcGamma Receptor Signaling: Consequences of Antibody Suppression"

2R15 ES027650	8/3/22-8/2/25 NCE
NIH/National Institute for Environmental Health Sciences	\$300,000 total directs

PI, "Research Experience Program for Veterinary Students"

N/A	4/28/24-8/31/25
Boehringer-Ingelheim	\$21,500 total costs

Co-PD/PI (Co-PD/PI, Samuel), "Summer Research Experience for Veterinary Students"

T35OD010432	5/1/21-4/30/27
NIH	\$545,025 total directs

Co-I (PI Ross), "Crosstalk between CES1 and PPAR γ and LXR α "

1R15HL157818-01A1	3/15/22-3/14/25 NCE
NIH/National Heart, Lung, Blood Institute	\$300,000 total directs

Co-I (PI Howell), "Role of pregnane x receptor activation on macrophage function and diabetic wound healing"
 1R15ES035527 9/1/23-8/31/26
 NIH/National Institute for Environmental Health Sciences \$300,000 total directs

COMPLETED

PI, "Multiple Therapy Approach for Multiple Sclerosis: Probiotics, Antidepressants, and Plant-derived Immune Suppressants"
 MSU CVM 8/1/24-7/31/25
 Office of Research and Graduate Studies \$10,000 total directs

Co-PI (Co-PI Carr, Ross and Swanson), "Analysis of Blood Levels of CBD utilizing a Slow-Release Device"
 N/A 11/1/21-4/30/22
 NanoMedical Systems, Inc. (Austin, TX) \$28,141 total cost

PI, "TCDD-treated B Cells Modulate T Effector and T Regulatory Function in EAE"
 R15 ES027650 9/30/17-8/31/20 NCE
 2021
 NIH/National Institute for Environmental Health Sciences \$300,000 total directs

PI, "Superantigen-induced T Regulatory Cells as a Cell-based Treatment for EAE"
 Junior Investigator NIH/NIGMS (\$200,000 direct per year) 6/1/16-5/31/18
 Parent grant:
 P20GM103646 (PI Pruett) 06/01/13-05/31/18
 NIH/National Institute of General Medical Sciences \$2,016,391 (FY 2015)
 "Center for Biomedical Research Excellence on Pathogen-Host Interactions"

Co-I (PI Ross), "Role of Carboxylesterases in Innate Immunity"
 R15 GM128206 4/1/18-3/30/21 NCE
 2021
 NIH/National Institute for General Medical Sciences \$300,000 total directs

INTRAMURAL COMPLETED

Co-I (PI Stillwell), "Investigation of Tissue Enzymes and Environmental Toxicants in Wild-caught Sharpnose Sharks"
 MSU CVM Office of Research and Graduate Studies 9/1/22-5/31/24
 USDA Section 1433 Formula (CRIS) \$10,090 total directs

PI, "Investigation of Additive or Synergistic Anti-inflammatory and Analgesic Effects Between Cannabidiol (CBD) and Lipoxin A4 (LXA4)" Mississippi State University College of Veterinary Medicine Office of Research and Graduate Studies Seed Grant (\$10,000), September 2020

PI, "Investigation of mechanisms for cannabinoid-mediated suppression of Th1/Tc1 immunity"
 Mississippi State University College of Veterinary Medicine Office of Research and Graduate Studies Seed Grant (\$10,000), September 2019

PI, "The role of interleukin (IL)-6 in inflammation-induced suppression of endocannabinoid metabolizing enzymes" Mississippi State University College of Veterinary Medicine Office of Research and Graduate Studies Seed Grant (\$9,990), August 2015

Co-PI, "Effect of exposure to persistent organic pollutants on the development of hepatic steatosis and steatohepatitis" Mississippi State University College of Veterinary Medicine Office of Research and Graduate Studies Seed Grant (\$9,800), August 2014

PI, "The Effect of Plant-Derived Cannabinoids on LPS-Induced Pulmonary Inflammation" Michigan State University Respiratory Research Initiative Group Seed Grant (\$15,000), February 2008

PI, "The Effect of Plant-Derived Cannabinoids on LPS-Induced Pulmonary Inflammation", Michigan State University Respiratory Research Initiative Group Seed Grant (\$15,000), November 2006

PUBLICATIONS (81 published, 2 pending)

- 2025 Kaplan BLF. Communicating About Scientific Progress: Application of NAMs for Medical Rarities. *Rare Dis Orphan Drugs J*, Submitted.
- 2025 KuKanich K, Bitcon K, Larson R, Davis E, Kaplan B, Franklin C, Hancock T, and Dahlberg J. Veterinary Research Scholars Program Alumni Have Increased Odds of Advanced Training and Academic Careers. *J Vet Med Educ*, Submitted.
- 2025 Kaplan BLF and Dhanabalan UVA. Professional Needs Regarding Cannabis: Learning About the Endocannabinoid System and Cannabinoid Pharmacology. *Curr Opin Toxicol*, In press.
- 2025 Kaplan B and Peters JM. Streamlined Format for Toxicological Sciences: Still Your Science, Your Journal. *Toxicol Sci*, In press DOI: 10.1093/toxsci/kfaf125
- 2025 Conrow KD, Haney RS, Malek Ahmadi M, Albright J, Kaplan BLF, Snyder-Mackler N, Kerr KF, Su Y, Promislow DEL, Bray EE. Dog Aging Project Consortium, Leung MCK. Demographics Features, Health Status, and Behavioral Changes Associated with Cannabidiol Use in the Dog Aging Project. *Front Vet Sci*, In Press.
- 2025 Landrau-Giovannetti N, Murray R, Reichley S, Moore D, Madrigal T, Brown A, Meredith A, Childers C, Sparks D, Solangi M, Peterman B, Lawrence M, and Kaplan BLF. Tissue Element Levels and Heavy Metal Burdens in Bottlenose Dolphins that Stranded in the Mississippi Sound Surrounding the 2019 Unusual Mortality Event. *Toxics*, 3:511. DOI: 10.3390/toxics13060511.
- 2025 Deb A, Lott K, Miceli A and Kaplan BLF. Optimization of IgG1 Immune Complexes to Stimulate Cytokine Production in Innate Cells. *J Immunol Methods*, 539:113851. DOI: 10.1016/j.jim.2025.113851.
- 2025 Sulentic CEW, Kaplan BLF, and Lawrence PB. Using the Key Characteristics Framework to Unlock the Mysteries of Aryl Hydrocarbon Receptor-mediated Effects on the Immune System. *Ann Rev Immunol*, 43:191-218. DOI: 10.1146/annurev-immunol-083122-040107.
- 2024 Hoberman A and Kaplan BLF. Practical Lessons of the 3Rs: Learning from Past and Looking Toward the Future. *Curr Opin Toxicol*, 40: 100499. DOI: 10.1016/j.cotox.2024.100499
- 2024 Landrau-Giovannetti N, Rogers J, Murray R, Reichley S, Moore D, Madrigal T, Brown A, Meredith A, Childers C, Sparks D, Solangi M, Peterman B, Lawrence M, and Kaplan BLF. Determination of PCB and PAH Tissue Levels in Bottlenose

- Dolphins that Stranded in the Mississippi Sound Before and After the Unusual Mortality Event in 2019. *Sci Total Environ*, 954:176747. DOI: 10.1016/j.scitotenv.2024.176747.
- 2024 Frodella CM, Pruett SB, Ross MK and Kaplan BLF. Oxytocin and Vasopressin Gene Expression in the Brain as Potential Biomarkers for Cannabidiol Exposure and Anti-inflammatory Efficacy. *Biomedicines*, 12: 1273. DOI: 10.3390/biomedicines12061273
- 2024 Frodella CM, Pruett SB and Kaplan BLF. Mild Disease Course of Experimental Autoimmune Encephalomyelitis without Pertussis Toxin: Brain Transcriptome Analysis Reveals Similar Signaling to Active Lesions in Multiple Sclerosis. *Biomedicines* 12: 1215. DOI: 10.3390/biomedicines12061215
- 2024 Cresswell O, Blankenship K and Kaplan BLF. Development of an in Vitro Peptide-Stimulated T Cell Assay to Evaluate Immune Effects by Cannabinoid Compounds. *Int Immunopharmacol*. 129:111654. DOI: 10.1016/j.intimp.2024.111654.
- 2024 Dixon S, Deb A and Kaplan BLF. Potential to Use Cannabinoids as Adjunct Therapy for Dexamethasone: An In Vitro Study with Canine Peripheral Blood Mononuclear Cells. *Vet Immunol Immunopathol*. 269:110727. DOI: 10.1016/j.vetimm.2024.110727
- 2024 Frodella C, Liu L, Tan W, Pruett SB and Kaplan BLF. The Mechanism by which Cannabidiol (CBD) Suppresses TNF- α Secretion Involves Inappropriate Localization of TNF- α Converting Enzyme (TACE). *Cell Immunol*. 397-398:104812. DOI: 10.1016/j.cellimm.2024.104812.
- 2024 Kaplan BLF, Hoberman A, Slikker Jr W, Smith MA, Corsini E, Knudsen T, Marty MS, Sobrian S, Fitzpatrick S, Ratner M and Mendrick D. Protecting Human and Animal Health: The Road From Animal Models to New Approach Methods. *Pharmacol Rev*. 76:251. DOI: 10.1124/pharmrev.123.000967
- 2023 Brown C, Mitsch M, Blankenship K, Campbell C, Pelanne M, Sears J, Bell A, Olivier AK, Ross MK, Archer T and Kaplan BLF. Canine Immune Cells Express High Levels of CB1 and CB2 Cannabinoid Receptors and Cannabinoid-Mediated Alteration of Canine Cytokine Production is Vehicle-Dependent. *Vet Immunol Immunopathol*, 265:110667. DOI: 10.1016/j.vetimm.2023.110667
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CHAPTERS

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- 2023 Anderson S, Sulentic CEW and Kaplan BLF. Immunotoxicology in Industrial Hygiene and Occupational Exposures. In: *Patty's Toxicology 7th Edition* (eds. DJ Paustenbach, WH Farland and JE Klaunig). Chapter 14. Pp. 1-55. Wiley, Hoboken, NJ. DOI: 10.1002/0471125474.tox165
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OP-EDS

- 2025 My Impact as a Scientist in Starkville, Mississippi. Starkville Daily News. Published June 17, 2025



RADIO SPOTS

- 2025 Research in 2 (a research synopsis in 2 minutes). The Junction WSMV 91.1. Recorded October 15, 2025; to be aired every few days



PODCASTS

- 2025 Kaplan Lab Dog Research. Mississippi State University College of Veterinary Medicine, VetMed Cast. Posted XXX
- 2023 Up in Smoke. Where Cannabis Meets the Immune System. Society of Toxicology *Adverse Reactions*, season 3, "Intersections". Posted June 22, 2023. <https://www.adversereactionspodcast.com/1756958/13066879-up-in-smoke-where-cannabis-meets-the-immune-system>
- 2021 It's High Time We Talked About Cannabis. ScienceNight.com. Posted November 5, 2021 <https://www.scinight.com/episodes/its-high-time-we-talked-about-cannabis>



BLOGS

- 2024 Kaplan BLF. US FDA and SOT Come Together to Discuss CBD. Society of Toxicology website. Posted July 25, 2024 https://toxchange.toxicology.org/blogs/barbara-kaplan1/2024/07/25/us-fda-and-sot-come-together-to-discuss-cbd?utm_source=SOT%20Website&utm_medium=Referrals&utm_campaign=ToXchange&_zs=PiO2m&_zl=fMe23
- 2024 Kaplan BLF and Slikker Jr., W. Shifting the Balance from Animals to New Approach Methods: We're Working Toward It! PLOS One Science Communication Blog. Posted February 14, 2024. <https://scicomm.plos.org/2024/02/14/shifting-the-balance-from-animals-to-new-approach-methods-were-working-toward-it/>
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- 2017 Kaplan BLF. Marijuana: More Than Just the High. PLOS Science Communication Blog. Posted October 25, 2017. <http://blogs.plos.org/scicomm/2017/10/25/marijuana-more-than-just-the-high/>



INTERVIEWS

- 2019 Phone interview, Amanda Hoover, NJ.com, "CBD to cure the common cold? Experts are split on its powers" story posted November 25, 2019



INVITED SPEAKING ENGAGEMENTS

- August 2025 Preparing your CV to Allow People to CU ("see you") Effectively: Your Audience Matters, Cellular and Molecular Mechanisms of Toxicity Gordon Research Symposium, Andover, NH
- June 2025 Translational Research for Cannabis Use in Multiple Sclerosis: Studies in Mice Lead to Research in Humans, University of Mississippi Department of Neurology Grand Rounds, virtual
- December 2024 EAE Mouse Model of MS at MSU CVM: Significant Findings, Challenges, and Adaptations for Animal Welfare and Scientific Rigor, Mississippi State University Institutional Care and Use Committee (IACUC) retreat, Starkville, MS
- November 2024 Practice for Progress in Science Communication, Michigan State University workshop for Comparative Medicine and Integrative Biology (CMIB) and Integrated Pharmacological Sciences Training Program (IPSTP) trainees, East Lansing, MI
- November 2024 From MSU to MSU: Science and so Much "Moore", Michigan State University Kenneth E. Moore Lecture, East Lansing, MI
- August 2024 Impact of a Freshwater Incursion on Chemical Contaminants in Tissues of Dolphins that Stranded in MS Sound, MSU Global Center for Aquatic Health and Food Security Marine Monday Seminar Series, Starkville, MS
- June 2024 Let's Talk About Science: Practice, Practice, Practice! Birth Defects Research and Prevention Annual Meeting Professional Development Session, Pittsburgh, PA
- May 2024 NAMs for Immunotoxicology: What They Are and How to Talk About Them, Corteva Agrosiences NAMs Community of Practice Seminar, Indianapolis, IN, virtual

February 2024	Cannabinoid Effects in the Immune System: Lessons from Mice and Dogs, Arizona State University, New College Seminar for <i>Cannabis sativa</i> , the Environment, and Your Health, Glendale, AZ
September 2023	NAMs and In Vitro Assays for Immunotoxicity with Focus on the IL-2 Luc Assay, Michigan State University Center for Research on Ingredient Safety Annual Meeting, East Lansing, MI
November 2022	Development of a Detailed Review Paper (DRP) on Non-animal Approaches for Immunosuppression, Japanese Society for Alternatives to Animal Experiments Annual Meeting, Shizuoka, Japan
September 2022	The Other Project in the Kaplan Lab: TCDD Induces Regulatory B Cells to Suppress Autoimmune Disease, Mississippi State University College of Veterinary Medicine Graduate Seminar Course, Starkville, MS
September 2022	Insights Regarding CBD's Immune Suppressive Effects Obtained from Murine and Canine Cells, University of Iowa Interdisciplinary Graduate Program in Human Toxicology seminar series, virtual
February 2022	Pursuing Research with Integrity on Controversial Topics: Marijuana in the Immune System, Society of Toxicology, Faculty United for Toxicology Undergraduate Recruitment and Education (FUTURE) Committee, Undergraduate Education Network Webinar, virtual
October 2021	Research Opportunities at MSU-CVM, Mississippi State University Pre-Vet Club, Starkville, MS
November 2020	Inhibition of Peripheral Immune Function and Neuroinflammation by CBD in EAE, Michigan State University Center for Research on Ingredient Safety Annual Meeting, virtual
December 2019	Mechanisms and Critical Targets of Immune Modulation by CBD, University of Mississippi, Department of BioMolecular Sciences, Oxford, MS
October 2018	Mechanisms of Immune Suppression by Plant-Derived Cannabinoids, East Carolina University, Department of Anatomy and Cell Biology, Greenville, NC
February 2018	Basic Research in MSU CVM: A PhD Studies Marijuana, Mississippi State University Pre-Vet Club, Starkville, MS
April 2017	Immune Suppression by Plant-Derived and Endogenous Cannabinoids, University of Southern Mississippi, Department of Biological Sciences, Hattiesburg, MS
April 2017	The Immunopharmacology of Cannabinoid Compounds, University of Mississippi School of Pharmacy, Third Year Assembly, Jackson, MS
February 2017	Let's Talk About Toxicology, Mississippi University for Women, Department of Mathematics and Science, Columbus, MS
February 2014	NFAT is a Critical T Cell Target of Cannabinoid Compounds, Mississippi State University, Department of Biological Sciences, Starkville, MS
December 2013	Immunopharmacology of Cannabinoid Compounds: Roles of the G Protein-Couple Receptors CB ₁ and CB ₂ , Quarantine and Inspection Agency Veterinary Drugs and Biologics Division, Seoul, South Korea
December 2013	Immunopharmacology of Cannabinoid Compounds: Roles of the G Protein-Coupled Receptors CB ₁ and CB ₂ , Kyungpook National University College of Pharmacy, Daegu, South Korea
August 2012	The Role of CB ₁ , CB ₂ and β 2AR in Cannabinoid-Mediated Inhibition of Spleen Capsule Norepinephrine and Humoral Immunity, Mississippi State University Department of Basic Sciences, Starkville, MS

April 2012	The Role of CB ₁ , CB ₂ and β 2AR in Cannabinoid-Mediated Suppression of Immune Function, Midwestern University, Department of Pharmacology, Downers Grove, IL
April 2012	Cannabis Chemistry, Biology and Immunology: An Overview of the Compounds that Comprise Marijuana, University of Illinois, Alpha Chi Sigma Professional Chemistry Fraternity, Louis Krug Lecture, Champaign, IL
September 2011	Δ^9 -Tetrahydrocannabinol (THC)-Induced Inhibition of Norepinephrine in the Splenic Capsule: A Mechanism for Immune Suppression by THC, Michigan State University Neuroscience Program, East Lansing, MI
July 2011	The Role of CB ₁ , CB ₂ and β 2AR in Cannabinoid-Induced Immune Suppression, Michigan State University Department of Pathobiology and Diagnostic Investigation, East Lansing, MI
February 2011	The Role of CB ₁ , CB ₂ and β 2AR in Δ^9 -THC-Induced Suppression of Humoral Immunity, University of North Carolina, Greensboro, Department of Biology, Greensboro, NC
January 2009	Development of Models to Assess Effects of Cannabinoids on Pulmonary Inflammation, Michigan State University Respiratory Research Initiative Meeting, East Lansing, MI
September 2007	Intranasal Instillation of Lipopolysaccharide: A Murine Model of Pulmonary Inflammation, Michigan State University, Respiratory Research Initiative Meeting, East Lansing, MI
October 2006	The Non-Psychoactive Cannabinoid, Cannabidiol, Suppresses T Cell Function Through Inhibition of NFAT, Wright State University Department of Pharmacology and Toxicology, Dayton, OH
March 2006	An Overview of the Biological Effects of Marijuana, Montcalm Community College Science Club Meeting, Sidney, MI



MEETING PRESENTATIONS

ORAL PRESENTATIONS

March 2024	<u>Kaplan BLF</u> . How to Get Started With Science Communication. Society of Toxicology Annual Meeting Tiny Tox Talk (replaced speaker with family emergency), Salt Lake City, UT
June 2023	<u>Kaplan BLF</u> . Detection of Contaminants in Bottlenose Dolphins (<i>Tursiops truncatus</i>) Stranded Along the Mississippi Sound from 2010 - 2021. Gulf of Mexico Energy Securities Act (GoMESA) Update and Strategy Meeting, virtual
March 2022	<u>Kaplan BLF</u> . Talking about Toxicology: Some Tips for Explaining the Frustrating Scientific Gray Areas. Society of Toxicology Annual Meeting, <i>The Toxicologist</i> 186 #1202, San Diego, CA
March 2021	<u>Kaplan BLF</u> . Interferon (IFN)-Gamma is a Sensitive Target in CBD-Induced Immune Suppression In Vivo and In Vitro. Society of Toxicology Annual Meeting, <i>The Toxicologist</i> 180 #1307, virtual
March 2020	<u>Kaplan BLF</u> . Cannabidiol Suppresses IFN- γ Production and Neuroinflammation in the EAE Model. Society of Toxicology Annual Meeting, <i>The Toxicologist</i> 174 #2454, virtual

- August 2019 Kaplan BLF. Oral Administration of the Plant-derived Cannabinoid, Cannabidiol (CBD), Attenuates Experimental Autoimmune Encephalomyelitis (EAE). Mississippi IDeA Conference, Jackson, MS
- March 2018 Kaplan BLF. Graduate Toxicology Presented in the Context of Problem Formulation and Experimental Design. Society of Toxicology Annual Meeting, *The Toxicologist* 162 #3292 San Antonio, TX
- March 2018 Kaplan BLF. Model Systems and Regulations for Cannabinoid Research in Academia. Society of Toxicology Annual Meeting, *The Toxicologist* 162 #1702, San Antonio, TX
- March 2017 Kaplan BLF. Neuroimmune Interactions and Drugs of Abuse: Overview of Marijuana Compounds with a Focus on Critical Exposure Windows. Society of Toxicology Annual Meeting, *The Toxicologist* 156 #1559, Baltimore, MD.
- March 2016 Kaplan BLF. Make an Impact with Your Research Seminar. Society of Toxicology Annual Meeting, *The Toxicologist* 150 #3354, New Orleans, LA
- March 2014 Kaplan BLF. Cannabinoid-Induced Suppression of $\beta 2AR^+$ B Cell Function. Society of Toxicology Annual Meeting, *The Toxicologist* 138 #1411, Phoenix, AZ
- March 2012 Kaplan BLF. Current Challenges in Pursuit of Careers in Academia. Society of Toxicology Annual Meeting, *The Toxicologist* 126 #1697, San Francisco, CA
- March 2009 Kaplan BLF and Kaminski NE. Immune Modulation by Plant-derived Cannabinoid Compounds. Society of Toxicology Annual Meeting, *The Toxicologist* 108 #676, Baltimore, MD
- March 2008 Kaplan BLF and Kaminski NE. The Mechanism by Which Cannabidiol, a Plant-Derived Cannabinoid, Suppresses Immune Function Involves Suppression of Nuclear Factor of Activated T Cells (NFAT) Transcriptional Activation, but not Suppression of NFATc1 or NFATc2 mRNA Expression. Society of Toxicology Annual Meeting, *The Toxicologist* 102 #2002, Seattle, WA
- March 2007 Kaplan BLF and Kaminski NE. The Non-psychoactive Cannabinoid, Cannabidiol, Suppresses T Cell Function Through Inhibition of Nuclear Factor of Activated T Cells (NFAT). Society of Toxicology Annual Meeting, *The Toxicologist* 96 #620, Charlotte, NC
- March 2005 Kaplan BLF, Ouyang Y, Rockwell CE, Rao GK and Kaminski NE. The Endogenous Cannabinoid, 2-Arachidonoyl-Glycerol, Suppresses NFAT Nuclear Translocation and Interferon- γ Production. Society of Toxicology Annual Meeting, *The Toxicologist* 90 #369, New Orleans, LA.
- May 2002 Kaplan BLF, Roszkowski JJ and Nishimura MI. Alteration of T Cell Specificity with TCR Genes: Use in a Melanoma Model. Ninth Annual Charles Huggins Research Conference, Chicago, IL
- June 2000 Faubert BL and Kaminski NE. The Role of ERK MAP Kinases in Cannabinol-Induced Inhibition of AP-1 Binding Activity in PMA/Io-Stimulated Mouse Splenocytes. International Cannabinoid Research Society Annual Symposium, Hunt Valley, MD
- June 1999 Faubert BL. Cannabinol Inhibits the Activation of ERK MAP Kinases in PMA/Io-Stimulated Mouse Splenocytes. Twenty-seventh Annual Pharmacology Research Colloquium, Ann Arbor, MI
- June 1999 Faubert BL and Kaminski NE. Inhibition of AP-1 Activity by Cannabinol is Mediated by Inhibition of its Protein Components, c-fos and c-jun. International Cannabinoid Research Society Annual Symposium, Acapulco, Mexico

- June 1998 Faubert BL. Inhibition of AP-1 and NF-AT Binding by Cannabinol in Mouse Splenocytes. Twenty-Sixth Annual Pharmacology Research Colloquium, Toledo, OH
- June 1997 Faubert BL. Inhibition of AP-1 Binding in Splenocytes by Cannabinol is Mediated by an Inhibition of its Protein Components, c-fos and c-jun. Twenty-Fifth Annual Pharmacology Research Colloquium, Detroit, MI

POSTER PRESENTATIONS

- September 2025 Kaplan BLF and Deb A. Use of an In Vitro Model to Study Effects of AHR Ligands on Antibody-Triggered Signaling in Innate Cells. Eurotox Congress, Athens, Greece
- August 2025 Kaplan BLF and Deb A. Examination of the Effects of the Aryl Hydrocarbon Receptor Ligand Indole-3-Carbinol (I3C) on Antibody Production and Function in Vivo and in Vitro. Cellular and Molecular Mechanisms of Toxicity Gordon Research Conference, Andover, NH
- March 2025 Kaplan BLF, Thomason J, Jaffe M, and Spoelker P. Cannabinoids Suppress Immune Function in Canine Peripheral Blood Mononuclear Cells (PBMCs): First, the Science - Next, the Message. Society of Toxicology Annual Meeting, *The Toxicologist* 204 #3652, Orlando, FL
- March 2024 Kaplan BLF, Hoberman AM, Slikker Jr W, Smith MA, Corsini E, Marty MS, Sobrian SK, and Ratner MH The Road From Animal Models to New Approach Methods for Protecting Human and Animal Health, Society of Toxicology Annual Meeting, *The Toxicologist* 198 #3494, Salt Lake City, UT
- February 2024 Kaplan BLF, Landrau-Giovannetti N, Reichley S, Moore D, Madrigal T, Brown A, Meredith A, Childers C, Sparks D, Solangi M, and Lawrence ML. POPs and Mercury Levels in Tissues of Bottlenose Dolphins Stranded from the Mississippi Sound (MSS) During the 2019 Unusual Mortality Event. Gulf of Mexico Conference (GOMCON), Tampa, FL
- March 2023 Kaplan BLF, McDonald A, Nicaise A, Rushing Sears E, Bell A, and Kummari E. TCDD Increased Populations of B Cells that Produce IL-10 In Vitro and in Experimental Autoimmune Encephalomyelitis. Society of Toxicology Annual Meeting, *The Toxicologist* #4044, Nashville, TN
- March 2022 Kaplan BLF, Nicaise A, Sturgis T, and Olivier A. Effects of TCDD in the Spleen, Blood, and Liver in Experimental Autoimmune Encephalomyelitis (EAE). Society of Toxicology Annual Meeting, *The Toxicologist* 186 #3375, San Diego, CA
- June 2021 Kaplan BLF, Szafran B, Nicaise A, Ross MK and Nichols J. CB₁ Inactivation Increases Pro-inflammatory Cytokine Production in Response to Lipopolysaccharide. 31st Annual International Cannabinoid Research Society Meeting, Jerusalem (hybrid/virtual)
- July 2018 Kaplan BLF, Szafran BN, Lee JH, Hou X, Borazjani A, Andrzejewski K and Ross MK. Characterization of Endocannabinoid Metabolizing Enzymes in Human Peripheral Blood Mononuclear Cells Under Inflammatory Conditions. 28th Annual International Cannabinoid Research Society Meeting, Leiden, the Netherlands
- March 2017 Kaplan BLF, Dhital S, Stokes J, Park N and Seo KS. Cannabidiol (CBD) Induces Functional CD4⁺CD25⁺FOXP3⁺ Tregs in Response to Low Level T Cell Activation. Society for Neuroimmune Pharmacology Annual Meeting, Philadelphia, PA

- August 2016 Kaplan BLF, Kummari E, Yang E-J and Dhital S. Low Dose TCDD Inhibits MOG-specific T and B Cell Response. AHR 2016: The aryl hydrocarbon receptor as a central mediator of health and disease, Rochester, NY
- March 2016 Kaplan BLF, Szafran B, Borazjani A, Lee H-W and Ross MK. LPS Suppression of Serine Hydrolase Activity and 2-Arachidonylglycerol (2-AG) Hydrolysis: A Possible Mechanism to Regulate Inflammation. Marijuana and Cannabinoids: A Neuroscience Research Summit at NIH, Bethesda, MD
- March 2016 Kaplan BLF, Stokes J and Yang E-J. Inhibitory Effect of Subchronic Low Dose 2,3,7,8-Tetrachlorodibenzo-p-dioxin in Experimental Autoimmune Encephalomyelitis (EAE). Society of Toxicology Annual Meeting, *The Toxicologist* 150 #2869, New Orleans, LA
- November 2015 Kaplan BLF, Rodriguez-Ruiz Y, Park N, Yang E-J, Eells J, and Seo K-S. *Staphylococcus aureus* Superantigen-induced T Regulatory Cells in Mouse Splenocytes. 2015 Southeast MS IDeA Conference, Biloxi, MS
- March 2015 Kaplan BLF, Szafran B, Borazjani A, Lee J and Ross MK. LPS Suppresses Spleen Serine Hydrolase Activity and 2-Arachidonylglycerol (2-AG) Hydrolysis: A Possible Mechanism to Regulate Inflammation. Society of Toxicology Annual Meeting, *The Toxicologist* 144 #151, San Diego, CA
- March 2013 Kaplan BLF, Chen W, Zhang Q, Baker GL and Kaminski NE. Engineered Nanoparticles Enhanced CD8⁺ T Cell Cytokine Production. Society of Toxicology Annual Meeting, *The Toxicologist* 132 #1760, San Antonio, TX
- March 2012 Kaplan BLF, Chen W, and Kaminski NE. Induced T Cell Cytokine Production is Enhanced by Engineered Nanomaterials. Society of Toxicology Annual Meeting, *The Toxicologist* 126 #1367, San Francisco, CA
- April 2010 Kaplan BLF, Topper LA, Lichorobiec NR and Kaminski NE. Mechanisms by Which Cannabidiol Enhances T Cell Function. Society of Neuroimmune Pharmacology Annual Meeting, Manhattan Beach, CA
- March 2010 Kaplan BLF, Crawford RB, Arencibia A, Kim SS, Pinnavaia TJ, and Kaminski NE. A Model to Mimic the Effect of TCDD-Contaminated Soil Ingestion on Immune Function. Society of Toxicology Annual Meeting, *The Toxicologist* 114 #1997, Salt Lake City, UT
- May 2007 Kaplan BLF and Kaminski NE. Nuclear Factor of Activated T Cells (NFAT) is Suppressed by the Plant-Derived Cannabinoid, Cannabidiol. American Association of Immunologists Annual Meeting, Miami, FL
- May 2006 Kaplan BLF, Springs AEB, and Kaminski NE. Cannabidiol, a Non-Psychoactive Congener of Marijuana, Suppresses Immune Function. American Association of Immunologists Annual Meeting, Boston, MA
- March 2006 Kaplan BLF and Kaminski NE. Characterization of the Immunosuppressive Activity of the Plant-Derived Cannabinoid, Cannabidiol. Society of Toxicology Annual Meeting, *The Toxicologist* 90 #1732, San Diego, CA
- May 2004 Kaplan BLF, Moore TV, Schreiber K, Callender GG, Schreiber H and Nishimura MI. Human Her-2/Neu-Reactive T Cells Recognize Two Novel Murine Tumor Cell Lines. Eleventh Annual Charles Huggins Research Conference, Chicago, IL
- January 2004 Kaplan BLF, Moore TV, Schreiber K, Callender GG, Schreiber H and Nishimura MI. Two Novel Murine Cell Lines Express Functional HLA-A2/K^b. Midwinter Conference of Immunologists, Pacific Grove, CA

October 2002	<u>Kaplan BLE</u> , Schreiber K and Nishimura MI. A New Mouse Tumor Model for Human Cancer. Committee on Immunology Annual Retreat, Lake Geneva, WI
March 2001	<u>Faubert Kaplan BL</u> and Kaminski NE. Immune Suppression by Cannabinoids is Mediated via a CB1-, CB2-Independent Inhibition of Interleukin-2. Society of Toxicology Annual Meeting, <i>The Toxicologist</i> 60, San Francisco, CA
October 1999	<u>Faubert BL</u> and Kaminski NE. Cannabinol-induced Immune Suppression Involves Inhibition of the Activation of ERK MAP Kinases. College of Veterinary Medicine Research Day, Michigan State University, East Lansing, MI
September 1999	<u>Faubert BL</u> and Kaminski NE. Cannabinol-induced Immune Suppression Involves Inhibition of the Activation of ERK MAP Kinases. Fourteenth Annual Symposium on Mechanisms of Immunotoxicity, Morgantown, WV
March 1999	<u>Faubert BL</u> and Kaminski NE. Inhibition of MAPK (ERK) Activation by Cannabinol in PMA/Io-Stimulated Mouse Splenocytes. Society of Toxicology Annual Meeting, <i>The Toxicologist</i> 48, New Orleans, LA
September 1998	<u>Faubert BL</u> and Kaminski NE. Effects of Cannabinol on c-fos and c-jun Protein Expression in Mouse Splenocytes. Thirteenth Annual Symposium on Mechanisms of Immunotoxicity, Morgantown, WV
May 1998	<u>Faubert BL</u> . Cannabinoid-Induced Inhibition of Transcription Factor Binding to Proximal and Consensus AP-1 Sites in Mouse Splenocytes. Michigan Regional Chapter of the Society of Toxicology, Spring Meeting. East Lansing, MI
March 1998	<u>Faubert BL</u> and Kaminski NE. Cannabinoid Compounds Inhibit Binding to Several Different AP-1 Sites. Society of Toxicology Annual Meeting, <i>The Toxicologist</i> 42, Seattle, WA
September 1997	<u>Faubert BL</u> and Kaminski, NE. Cannabinol-Mediated Inhibition of AP-1 and NF-AT Binding in the Interleukin-2 Promoter in Splenocytes is Due to an Inhibition of the Protein Components, c-fos and c-jun. Twelfth Annual Symposium on Mechanisms of Immunotoxicity, Morgantown, WV
March 1997	<u>Faubert BL</u> and Kaminski NE. Inhibition of AP-1 Binding in Splenocytes by Cannabinol is Mediated by an Inhibition of c-fos. Society of Toxicology Annual Meeting, <i>The Toxicologist</i> 36, Cincinnati, OH.
June 1996	<u>Faubert BL</u> , Pulaski J, Hwang SG and Kaminski NE. Immune System Tolerance to Cannabinoids: The Role of the CB2 Receptor <i>In Vivo</i> and <i>In Vitro</i> . Twenty-Fourth Annual Pharmacology Research Colloquium, East Lansing, MI

PROFESSIONAL ACTIVITIES

PEER REVIEWER-JOURNALS

Peer reviewer as requested by Editor/Associate Editor (average ~11 reviews per year)

January 2020-present	Editorial Board Member, <i>Toxicological Sciences</i>
February 2021-June 2022	Guest Editor, Role of The Aryl Hydrocarbon Receptor in Immune Modulation, <i>Frontiers in Toxicology Research Topic</i>

PEER REVIEWER-OTHER

November 2022	International peer review panel for IL-2-Luciferase Lymphocyte Toxicity Test Assay, Multi-immunotoxicity Test Assay through the Japanese Centre for the Validation of Alternative Test Methods (JaCVAM), National Institutes of Health Sciences, Tokyo, Japan
January 2020	International working group member for Detailed Review Paper (DRP) submitted to the Organization for Economic Cooperation and Development (OECD: Paris, France), Tokyo, Japan <i>Deliverable:</i> "In vitro tests addressing immunotoxicity with a focus on immunosuppression". 2022. Authors: Kojima H (Contractor), Corsini E, Germolec D, <u>Kaplan BLF</u> , Roggen EL, Neff-LaFord H, van Lovern H, Yoshimoto T, Kimura Y and Aiba S.
May 2020	<i>Ad hoc</i> reviewer, NSF International Health Advisory Board, virtual
October 2019	<i>Ad hoc</i> reviewer, NSF International Health Advisory Board, Ann Arbor, MI
February 2019	International peer review panel for IL-2-Luciferase Assay, Multi-immunotoxicity Test Assay through the Japanese Centre for the Validation of Alternative Test Methods (JaCVAM), National Institutes of Health Sciences, Tokyo, Japan

PEER REVIEWER-GRANT PANELS (VIA VIDEO CONFERENCE)

June 2025	National Institutes of Health, Mechanisms of Autoimmunity Study Section
May 2025	National Institutes of Health, Heart, Lung, and Blood Program Project Study Section
October 2024	National Institutes of Health, Molecular and Cellular Sciences and Technology (T35, K awards) Scientific Review Group
June 2024	National Institutes of Health, Hypersensitivity, Autoimmune, and Immune-mediated Diseases (HAI, R01 and R21) Scientific Review Group
November 2023	National Institutes of Health, Environmental Determinants of Disease (R03, R01 and R21) Scientific Review Group
June 2023	National Institutes of Health, Hypersensitivity, Autoimmune, and Immune-mediated Diseases (HAI, R01 and R21) Scientific Review Group
November 2020	National Institutes of Health, Interdisciplinary Molecular Sciences and Training Panel for Comparative Medicine Training Proposals (T32 and T35)
June 2019	National Institutes of Health, Exploring the Mechanisms Underlying Analgesic Properties of Minor Cannabinoids and Terpenes (R01 and R21) Scientific Review Group
July 2018	National Institutes of Health, Discovery and Biological Signatures of Diet-Derived Microbial Metabolites (R01) Scientific Review Group

PEER REVIEWER-GRANT PANELS (VIA E-MAIL/SUBMITTED ONLINE)

January 2025	German Research Foundation, Grant Program (Bonn, Germany)
March 2024	Israel Science Foundation, Personal Research Grants (Jerusalem, Israel)
June 2023	Center for Medicinal Cannabis Research grant review (CA, USA)
May 2023	Consortium for Medical Marijuana Clinical Outcomes Research grant review (FL, USA)
February 2022	Irish Research Council, Laureate Awards grant review (Dublin, Ireland)
May 2021	Consortium for Medical Marijuana Clinical Outcomes Research grant review (FL, USA)
April 2021	Natural Sciences and Engineering Research Council of Canada (NSERC) Alliance Grant review
January 2020	Barth Syndrome Foundation Grant Review (NY, USA)
April 2018	Natural Sciences and Engineering Research Council of Canada (NSERC) Collaborative Research and Development Grant review
August 2018	National Institutes of Health Center for Scientific Review Anonymization Study Grant Review
February 2015	National Institutes of Health, Innate Immunity and Inflammation Scientific Review Group
January 2015	Natural Sciences and Engineering Research Council of Canada (NSERC) Collaborative Research and Development Grant review
July 2014	National Institute of Occupational Safety and Health, Internal Proposal
December 2012	Medical Research Council, Infections and Immunity Board, United Kingdom
February 2012	National Institute of Environmental Health Sciences Children's Environmental Health Sciences Core Center Pilot Project at Medical College of Wisconsin
June 2010	National Institute of Environmental Health Sciences Children's Environmental Health Sciences Core Center Pilot Project at Medical College of Wisconsin

REGIONAL OR NATIONAL SERVICE

May 2025-May 2026	Chair, Society of Toxicology Board of Publications
May 2025-April 2028	Treasurer (elected position), South Central Chapter of the Society of Toxicology
May 2024-April 2027	Appointed member, Society of Toxicology Board of Publications
August 2024-November 2024	Member, Society of Toxicology task force to evaluate publisher request for proposals for <i>Toxicological Sciences</i>

December 2023-April 2024	Chair, Animal Models and Alternatives working group of the Scientific Liaison Coalition
May 2021-April 2024	Member, Scientific Liaison Coalition (Society of Toxicology representative)
September 2020-December 2022	Invited member, "Key Characteristics of Immunotoxicants" working group
May 2018- April 2021	Councilor (elected position), Society of Toxicology
May 2017-April 2020	Member, Society of Toxicology Undergraduate Consortium Task Force
May 2017-April 2018	Chair, Society of Toxicology Undergraduate Consortium Task Force
May 2016-April 2017	Chair, Society of Toxicology Education Committee
May 2015-April 2016	Co-Chair, Society of Toxicology Education Committee
May 2014-April 2017	Appointed Member, Society of Toxicology Education Committee
August 2013-July 2014	Co-Chair, Society of Toxicology Mentoring Breakfast Planning Committee
August 2012-July 2013	Chair, Society of Toxicology Mentoring Breakfast Planning Committee
May 2012-January 2013	Toxicology Consulting, Mead Johnson Nutrition (Evansville, IN)
February 2012-August 2012	Facilitator, Society of Toxicology Mentor Match Program
April 2010-March 2013	Appointed Member, Society of Toxicology Career Resource and Development Committee
June 2012	Faculty Judge for Graduate Student Oral and Poster Presentations, Midwest Annual Pharmacology Colloquium
June 2010	Faculty Judge for Graduate Student Oral and Poster Presentations, Midwest Annual Pharmacology Colloquium
May 2007-April 2009	Member, Program Committee, Society of Toxicology Immunotoxicology Specialty Section Program Committee

SCIENTIFIC SESSION CHAIR/CO-CHAIR

September 2025	Co-chair, "Advances in Regulatory Science in NAMs and Animal Models", Eurotox Congress, Athens, Greece
May 2024	Co-chair, "Current State of the Science: Toxicology of Cannabidiol and Other Cannabinoids", Society of Toxicology/US Food and Drug Administration Colloquium, virtual
March 2023	Co-chair, Continuing Education Session, "Put Your Science Where Your Mouth Is: Practice Makes Progress in Effective Science Communication", Society of Toxicology Annual Meeting. Nashville, TN
March 2022	Co-chair, Symposium Session "Communicating Science in an Age of Misinformation and Mistrust", Society of Toxicology Annual Meeting. San Diego, CA
March 2020	Co-chair, Symposium Session "Immunosuppressive and Anti-inflammatory Activity of Cannabis and Cannabinoids: Adverse or Therapeutic", Society

	of Toxicology Annual Meeting. Anaheim, CA (in person presentation canceled due to COVID-19)
March 2018	Chair, Education-Career Session “Research-based Approaches to Improve Teaching Effectiveness in Toxicology Classrooms”, Society of Toxicology Annual Meeting. San Antonio, TX
March 2016	Chair, Education-Career Session “Talksology: Effective Oral Presentation Techniques”, Society of Toxicology Annual Meeting. New Orleans, LA
March 2014	Chair, Workshop Session “Communication and Engagement with the Public about Toxicology in a World that Misunderstands Science and Scientists: How do you Make your Message Relevant and “Sticky?””, Society of Toxicology Annual Meeting, Phoenix, AZ
March 2014	Co-Chair, Workshop Session “Contribution of Nonimmune Cells to Adverse Immune Responses: Implications for Toxicology”, Society of Toxicology Annual Meeting, Phoenix, AZ
March 2013	Co-Chair, Educational Session “New Submissions to Competitive Renewals: Different Phases of Grant Writing”, Society of Toxicology Annual Meeting, San Antonio, TX
March 2011	Co-Chair, Workshop Session “Polishing Today’s Job Candidate in a Tough Economy”, Society of Toxicology Annual Meeting, Washington DC
March 2009	Chair, Symposium Session “Immunomodulation During Complementary and Alternative Medicine (CAM) Therapy: Risks and Benefits”, Society of Toxicology Annual Meeting, Baltimore, MD
March 2008	Chair, Platform Session “Immunotoxicology: T Cells”, Society of Toxicology Annual Meeting, Seattle, WA
June 1998	Chair, 26th Annual Pharmacology Research Colloquium, Medical College of Ohio, Toledo, OH

COLLEGE OR UNIVERSITY SERVICE

Mississippi State University

May 2024-present	Director, Mississippi State University College of Veterinary Medicine Summer Research Experience/Vet Med Research Scholars Program (SRE/VMRS) for veterinary students
One day annually since 2017	Faculty interviewer Mississippi State University College of Veterinary Medicine for veterinary school admission
January 2025-June 2025	Chair, Mississippi State University College of Veterinary Medicine Link Laminitis Research Center Director and Faculty Search Committee
August 2024-November 2024	Chair, Mississippi State University College of Veterinary Medicine Animal Health Center (Hospital) Director’s Search Committee
February 2024-August 2024	Member, Mississippi State University College of Veterinary Medicine Bylaws and Policy Task Force
January 2024-August 2024	Member, Search Committee for Mississippi State University Department of Comparative Biomedical Sciences Head
August 2019-April 2024	Co-director, Mississippi State University College of Veterinary Medicine Summer Research Experience (SRE) for veterinary students

August 2015-December 2023	Member, CVM 8011 Seminar Course Leadership Committee
September 2022-May 2023	Member, Search Committee for Mississippi State University College of Veterinary Medicine Dean
January 2018-April 2023	Alternative faculty representative for Mississippi State University, Federal Demonstration Partnership
August 2014-August 2021	Faculty Judge for College of Veterinary Medicine Research Day, Mississippi State University
August 2016-August 2018	Coordinator, College of Veterinary Medicine Research Day, Mississippi State University
April 2014-April 2018	Faculty Judge for Shackoul's Honor College Undergraduate Research Symposium, Mississippi State University
April 2015-April 2016	Faculty Judge for Biology Undergraduate Research Program (BURP) Mississippi State University
March 2014-February 2016	Member, Mississippi State University College of Veterinary Medicine Scholarship Committee
May 2015-August 2015	Member (<i>ad hoc</i>), College of Veterinary Medicine Seminar Series Course Update Committee
August 2014	Member, Mississippi State University Department of Basic Sciences Faculty Search Committee for Research Assistant Professor (PI Henry Wan)
November 2013	Panel Member, Mississippi State University College of Veterinary Medicine Lab Animal and Research Club Discussion "Ethical Use of Animals in Research"

Michigan State University

July 2011-June 2013	Faculty Representative, Michigan State University College of Veterinary Medicine Graduate Grievance Hearing Pool
October 2012	Faculty Judge for Graduate Student Oral Presentations, Michigan State University College of Veterinary Medicine Phi Zeta Day
October 2011	Faculty Judge for Resident, Intern and Masters Student Oral Presentations, Michigan State University College of Veterinary Medicine Phi Zeta Day
October 2004-February 2008	Member, Department of Pharmacology and Toxicology Graduate Student Recruitment Committee, Michigan State University

University of Chicago (post-doctoral training)

May 2004	Faculty Discussion Leader for Medical Student Presentation Entitled "Impact of CD8 on Tumor Cell Recognition by High and Low Affinity T Cell Receptors", 58 th Senior Scientific Session for Medical Students, University of Chicago
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SEMINARS HOSTED AT MISSISSIPPI STATE UNIVERSITY

October 2022	Dr. Courtney Sulentic, Associate Professor, Pharmacology and Toxicology Wright State University Boonshoft School of Medicine
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- “A Key Transcriptional Regulator of Antibody Production May be a Significant Toxicological and Therapeutic Target”
CVM 8011 Graduate Seminar Course
Virtual presentation: October 25, 2022
- November 2019 Dr. Jason Organ, Assistant Professor of Anatomy and Cell Biology
Indiana University School of Medicine
“Tips and Tricks to Effectively Convey a Scientific Message”
Sponsored by Mississippi State University Office of Research and Economic Development
Date of visit: November 19-20, 2019
- April 2019 Dr. Leigh Ann Burns Naas, President of the Society of Toxicology and Vice President of Nonclinical Safety and Pathobiology
Gilead Pharmaceuticals, San Francisco, CA
“The Evolving Role of Toxicology in the Drug Development Paradigm”
Date of visit: April 15-16, 2019
- October 2017 Dr. Chander Raman, Professor, Professor of Medicine, Division of Clinical Immunology and Rheumatology
University of Alabama at Birmingham, Birmingham, AL
“Interferons in Pathogenesis and Regulation in Autoimmunity”
Date of visit: October 16-17, 2017
- October 2016 Dr. Steven Hermansky, Vice President, Science and Regulatory Affairs
ConAgra Foods and Science Forum Chairman, Omaha, NE
“Science Communication in a World that Mistrusts Scientists: What Can We Do?”
Date of visit: October 10-11, 2016
- February 2016 Dr. Norbert Kaminski, Director, Institute for Integrative Toxicology, Professor, Pharmacology and Toxicology
Michigan State University, East Lansing, MI
“Plasmacytoid Dendritic Cells are a Sensitive Target for Modulation by Cannabinoids: Potential Relevance to HIV”
Date of visit: February 1-2, 2016
- November 2013 Dr. Peer Karmaus, Post-doctoral fellow
St. Jude Children’s Research Hospital, Memphis, TN
“Metabolic Programming of Myeloid Cell Development”
Date of visit: November 17-18, 2013

MEETING ABSTRACTS (PAST 5 YEARS)

- November 2025 Murray RE, Peterman B, McNulty KC, Moore DP and Kaplan B. Analysis of PCBs, Naphthalene, and Heavy Metals in Common Bottlenose Dolphins (*Tursiops truncatus*) and Their Prey Species in the Mississippi Sound. Society of Environmental Chemistry and Toxicology (SETAC) Annual Meeting, Portland, OR
- October 2025 Murray RE, Peterman B, McNulty KC, Moore DP and Kaplan B. Analysis of PCBs, Naphthalene, and Heavy Metals in Common Bottlenose Dolphins (*Tursiops truncatus*) and Their Prey Species in the Mississippi Sound. Mississippi State University Graduate Research Symposium, Starkville, MS

- October 2025 Deb A and Kaplan B. AHR Ligands Attenuate IgG1a- and IgG2b-Induced Inflammatory Signaling in Innate Immune Cells. Mississippi State University Graduate Research Symposium, Starkville, MS
- August 2025 Murray RE, Peterman B, McNulty KC, Moore DP and Kaplan B. Analysis of PCBs, Naphthalene, and Heavy Metals in Common Bottlenose Dolphins (*Tursiops truncatus*) and Their Prey Species in the Mississippi Sound. Mississippi State University College of Veterinary Medicine Research Day, Starkville, MS
- August 2025 Deb A and Kaplan B. AHR Ligands Attenuate IgG1a- and IgG2b-Induced Inflammatory Signaling in Innate Immune Cells. Mississippi State University College of Veterinary Medicine Research Day, Starkville, MS
- August 2025 Wilson ER, Thomason J, Jaffe M, and Kaplan B. Optimization of Two Methods for Understanding how Cannabinoids are Anti-inflammatory in Canine Immune Cells. Mississippi State University College of Veterinary Medicine Research Day, Starkville, MS
- August 2025 Wilson ER, Thomason J, Jaffe M, and Kaplan B. Optimization of Two Methods for Understanding how Cannabinoids are Anti-inflammatory in Canine Immune Cells. Veterinary Scholars Symposium, Spokane, WA
- August 2025 Bitcon K, KuKanich K, Larson R, Davis E, Kaplan B, Franklin C, Hancock T, and Dahlberg J. Exploring the Impact of an Early Research Experience on Veterinary Career Paths. Veterinary Scholars Symposium, Spokane, WA
- May 2025 Afsar MNA, Akter M, Deb A, Kaplan B, Bian T, Chengguo X, and Johnson CN. Alterations to SR Ca²⁺ Release and Potential Rescue by Kavalactones. International Society of Heart Research World Congress, Nara Japan.
- May 2025 Murray, RE, Linhoss, AC, Peterman, B, McNulty, KC, Moore, DP, and Kaplan, B. Impacts of Freshwater Incursion on Essential Metals in Bottlenose Dolphins (*Tursiops truncatus*) in the Mississippi Sound. International Association for Aquatic Animal Medicine, Biloxi, MS May 2025
- April 2025 Gerber A, Deb A and Kaplan BLF. Potential for a Combination of Antidepressant, Probiotic, and Plant-Derived Compound as a Treatment for Multiple Sclerosis. Mississippi State University Shackouls Honors College Undergraduate Research Symposium. Starkville, MS
- March 2025 Deb A and Kaplan BLF. Investigating the Effects of Aryl Hydrocarbon Receptor (AHR) Ligands on IgG1-triggered Signaling in Innate Cells. Society of Toxicology Annual Meeting, *The Toxicologist* 204 #3653, Orlando, FL
- August 2024 Spoelker P, Thomason J, Jaffe M, and Kaplan BLF. Characterization of Cannabinoids and Prednisolone on IL-6, IL-8, and IFN- γ in Healthy and Osteoarthritic Canine Immune Cells. Mississippi State University College of Veterinary Medicine Annual Research Day, Starkville, MS
- August 2024 Murray R, Kaplan BLF, Peterman B, McNulty K, and Moore D. Effect of Age on Toxicant Levels in Tissues of Dolphins that Stranded in the MS Sound. Mississippi State University College of Veterinary Medicine Annual Research Day, Starkville, MS
- August 2024 Deb A and Kaplan BLF. Immune Complexes Stimulate Innate Cells in Manner Consistent with Activation of Fc γ Receptors. Mississippi State University College of Veterinary Medicine Annual Research Day, Starkville, MS

August 2024	Spoelker P, Thomason J, Jaffe M, and <u>Kaplan BLF</u> . Characterization of Cannabinoids and Prednisolone on IL-6, IL-8, and IFN- γ in Healthy and Osteoarthritic Canine Immune Cells. Veterinary Scholars Symposium, St. Paul, MN
June 2024	<u>Kaplan BLF</u> , Hoberman AM, Slikker Jr W, Knudsen T, Smith MA, Corsini E, Marty MS, Fitzpatrick S, Sobrian SK, Ratner MH, and Mendrick DM. Protecting Human and Animal Health: The Road from Animal Models to New Approach Methods. Society for Birth Defects Research and Prevention Annual Meeting, Pittsburgh, PA (presenter: Hoberman).
May 2024	<u>Kaplan BLF</u> , Hoberman AM, Slikker Jr W, Knudsen T, Smith MA, Corsini E, Marty MS, Fitzpatrick S, Sobrian SK, Ratner MH, and Mendrick DM. Protecting Human and Animal Health: The Road from Animal Models to New Approach Methods. American Society for Pharmacology and Experimental Therapeutics Annual Meeting, Arlington, VA (presenter: Sobrian).
April 2024	<u>Kaplan BLF</u> , Hoberman AM, Slikker Jr W, Knudsen T, Smith MA, Corsini E, Marty MS, Fitzpatrick S, Sobrian SK, Ratner MH, and Mendrick DM. The Road From Animal Models to New Approach Methods for Protecting Human and Animal Health. Congress of Toxicology in Developing Countries, Santiago, Chile (presenter: Hoberman).
April 2024	Ahn C and <u>Kaplan BLF</u> . The Potential for the Hemp Chemical Cannabidiol to Increase Oxytocin. Mississippi State University Shackouls Honors College Undergraduate Research Symposium. Starkville, MS
April 2024	Lott K, Deb A, and <u>Kaplan BLF</u> . Characterization of Fc γ Receptors in Mouse Splenocytes Stimulated with IgG1 Immune Complex. Mississippi State University Shackouls Honors College Undergraduate Research Symposium. Starkville, MS
April 2024	Miceli A, Deb A, and <u>Kaplan BLF</u> . AHR Ligand Effects on IgG2b Immune Complex-stimulated Mouse Innate Cells. Mississippi State University Shackouls Honors College Undergraduate Research Symposium. Starkville, MS
April 2024	Ahn C and <u>Kaplan BLF</u> . The Potential for the Hemp Chemical Cannabidiol to Increase Oxytocin. Mississippi Science and Engineering Fair. Starkville, MS
March 2024	Ahn C and <u>Kaplan BLF</u> . The Potential for the Hemp Chemical Cannabidiol to Increase Oxytocin. State of Mississippi Region V High School Science Fair, Starkville, MS
March 2024	Deb A and <u>Kaplan BLF</u> . Optimization of Immune Complex Formation to Trigger Fc γ Receptor Signaling for In Vitro Immunotoxicity Assays. Society of Toxicology Annual Meeting, <i>The Toxicologist</i> 198 #3452, Salt Lake City, UT
February 2024	<u>Kaplan BLF</u> , Hoberman AM, Slikker Jr W, Knudsen T, Smith MA, Corsini E, Marty MS, Fitzpatrick S, Sobrian SK, Ratner MH, and Mendrick DM. The Road From Animal Models to New Approach Methods for Protecting Human and Animal Health. Arkansas Bioinformatics Consortium (AR-BIC) 2024, Little Rock, AR (presenter: Slikker).
October 2023	Deb A and <u>Kaplan BLF</u> . Optimization of Immune Complex Formation to Trigger Fc γ Receptor Signaling to Study Immunotoxicity. Society of Toxicology South Central Regional Chapter Annual Meeting, New Orleans, LA

March 2023	Ross AK, <u>Kaplan BLF</u> , Swanson EA, Ross MK, Olivier AK, Ross SX, Burroughs KJ, Matula M, Tarbox T, Greenberg M and Carr RL. Sustained Low Plasma Levels of CBD Without Liver Toxicity Using a Nanochannel Delivery System. <i>The Toxicologist</i> #4138, Nashville, TN
February 2023	Landrau-Giovannetti N, Rogers J, Moore D, Brown A, Meredith A, Childers C, Sparks D, Lawrence M, Reichley S, and <u>Kaplan BLF</u> . Detection of contaminants in bottlenose dolphins (<i>Tursiops truncatus</i>) stranded along the Mississippi Sound from 2010 - 2021 Mississippi Academy of Sciences Meeting, Biloxi, MS
August 2022	Blankenship K, Mitsch M and <u>Kaplan BLF</u> . In Vitro Model of MOG and OVA Peptide-Stimulated T-Cell Responses and Effects of Cannabinoids. Mississippi State University College of Veterinary Medicine Annual Research Day, Starkville, MS
August 2022	Mitsch M, Blankenship K, Archer T and <u>Kaplan BLF</u> . Cannabinoid vehicle effects on immune function in dog PBMCs. Mississippi State University College of Veterinary Medicine Annual Research Day, Starkville, MS
August 2022	Frodella C, Pruett SB and <u>Kaplan BLF</u> . Pre-treatment with Cannabidiol Impacts Macrophage Polarization and Secretion of TNF α through Tumor Necrosis Factor- α -converting Enzyme (TACE). Mississippi State University College of Veterinary Medicine Annual Research Day, Starkville, MS
August 2022	Blankenship K, Mitsch M and <u>Kaplan BLF</u> . In Vitro Model of MOG and OVA Peptide-Stimulated T-Cell Responses and Effects of Cannabinoids. 23 rd Annual Boehringer-Ingelheim National Veterinary Scholars Symposium, Minneapolis, MN
August 2022	Mitsch M, Blankenship K, Archer T and <u>Kaplan BLF</u> . Cannabinoid vehicle effects on immune function in dog PBMCs. 23 rd Annual Boehringer-Ingelheim National Veterinary Scholars Symposium, Minneapolis, MN
June 2022	Frodella C, Pruett SB and <u>Kaplan BLF</u> . Exploring the Impact of Cannabidiol on the Brain Transcriptome in a Mild Disease Model of Experimental Autoimmune Encephalomyelitis. 32 nd Annual International Cannabinoid Research Society Meeting, Galway, Ireland
April 2022	Cresswell O and <u>Kaplan BLF</u> . Cannabinoids Render Peptide-stimulated Immune Cells Sensitive to Inhibition in Response to Subsequent Stimulation. Mississippi State University Shackouls Honors College Undergraduate Research Symposium. Starkville, MS
April 2022	Rogers J, Moore D, Brown A, Sparks D, Lawrence M, Reichley S and <u>Kaplan BLF</u> . Detection of Persistent Organic Pollutants in the Tissues of Dolphins Stranded Along the MS Gulf Coast. Mississippi State University Shackouls Honors College Undergraduate Research Symposium. Starkville, MS
August 2021	Mertz M, Archer T and <u>Kaplan BLF</u> . Method Optimization for Studying Effects of Cannabinoids on Canine PBMC Immune Responses. 22 nd Annual Boehringer-Ingelheim National Veterinary Scholars Symposium. Virtual
March 2022	Sturgis T, Nicaise A and <u>Kaplan BLF</u> . Effect of an Endogenous AhR Ligand, ITE, on Autoimmune Disease in Male and Female Mice. MS Academy of Sciences Annual Meeting. Biloxi, MS
November 2021	Sturgis T, Nicaise A and <u>Kaplan BLF</u> . Effect of an Endogenous AhR Ligand, ITE, on Autoimmune Disease in Male and Female Mice. Annual Biomedical Research Conference for Minority Students (ABRCMS). San Juan, Puerto Rico/virtual

August 2021	Sturgis T, Nicaise A and <u>Kaplan BLF</u> . Effect of an Endogenous AhR Ligand, ITE, on Autoimmune Disease in Male and Female Mice. MS INBRE Conference, Jackson, MS
June 2021	Frodella C and <u>Kaplan BLF</u> . Pilot Study Reveals Sex Differences in T cell Stimulated Mouse Splenocytes Pre-treated with Cannabidiol. 31 st Annual International Cannabinoid Research Society Meeting, Jerusalem (virtual)
April 2021	Cresswell O and <u>Kaplan BLF</u> . Development of an In Vitro Peptide-stimulated T Cell Model to Study Cannabinoid Effects. Mississippi State University Shackouls Honors College Undergraduate Research Symposium. Virtual
April 2021	Nicaise A and <u>Kaplan BLF</u> . TCDD Inhibits IgG1 Antibody Production <i>In Vivo</i> and <i>In Vitro</i> . Mississippi State University Shackouls Honors College Undergraduate Research Symposium. Virtual
March 2021	Szafran BN, Borazjani A, Carr R, Ross MK, and <u>Kaplan BLF</u> . Carboxylesterase Inactivation by Chlorpyrifos: Immunotoxic or Protective in the Murine Lung? Society of Toxicology Annual Meeting, Abstract #3110. Virtual
March 2021	Nicaise A and <u>Kaplan BLF</u> . TCDD Inhibits IgG1 Antibody Production <i>In Vivo</i> and <i>In Vitro</i> . Society of Toxicology Annual Meeting, Abstract #2414. Virtual
November 2020	Szafran B, Borazjani A, Carr RL, Ross MK and <u>Kaplan BLF</u> . Immune Effects of Carboxylesterase Inactivation in the Neonatal Murine Lung. Society of Toxicology South Central Regional Chapter Annual Meeting. Virtual
November 2020	Frodella, C, Nanduri, B and <u>Kaplan BLF</u> . A Reanalysis: CBD-Treated Human Neuroblastoma Cells Reveal Potential Mediators in Understanding the Anti-inflammatory and Neuroprotective Mechanisms. Society of Toxicology South Central Regional Chapter Annual Meeting. Virtual
October 2020	Szafran B, Borazjani A, Carr RL, Ross MK and <u>Kaplan BLF</u> . Immune Effects of Carboxylesterase Inactivation in the Neonatal Murine Lung. Mississippi State University Graduate Research Symposium. Virtual
August 2020	Szafran B, Borazjani A, Carr RL, Ross MK and <u>Kaplan BLF</u> . Immune Effects of Carboxylesterase Inactivation in the Neonatal Murine Lung. Mississippi State University College of Veterinary Medicine Annual Research Day, Starkville, MS
August 2020	Frodella, C, Nanduri, B and <u>Kaplan BLF</u> . A Reanalysis: CBD-Treated Human Neuroblastoma Cells Reveal Potential Mediators in Understanding the Anti-inflammatory and Neuroprotective Mechanisms. Mississippi State University College of Veterinary Medicine Annual Research Day, Starkville, MS
August 2020	Szafran B, Borazjani A, Carr RL, Ross MK and <u>Kaplan BLF</u> . Immune Effects of Carboxylesterase Inactivation in the Neonatal Murine Lung. 21 st Annual Boehringer-Ingelheim National Veterinary Scholars Symposium. Virtual
August 2020	Campbell C, Fleming A and <u>Kaplan BLF</u> . Effects of Cannabinoids on TNF- α in Mouse Splenocytes as a Pre-clinical Model for Canine Immune Function. 21 st Annual Boehringer-Ingelheim National Veterinary Scholars Symposium. Virtual
August 2020	Fleming A, Campbell C, Jaffe M and <u>Kaplan BLF</u> . Establishment of a Cell Culture Model Using Whole Lung to Study Effects of Cannabinoids. 21 st

- Annual Boehringer-Ingelheim National Veterinary Scholars Symposium.
Virtual
- March 2020 Szafran B, Borazjani A, Carr RL, Ross MK and Kaplan BLF. Immune Effects of Carboxylesterase Inactivation in the Neonatal Murine Lung. Society of Toxicology Annual Meeting. *The Toxicologist* 174 #2317. Anaheim, CA. (in person presentation canceled due to COVID-19).
- March 2020 Rushing E, McDonald A, , Nicaise A, Bell A, Kummari E, and Kaplan BLF. TCDD-mediated Upregulation of FasL on B cells Triggers Apoptosis in T Cells in EAE. Society of Toxicology Annual Meeting. *The Toxicologist* 174 #1836. Anaheim, CA (in person presentation canceled due to COVID-19)
- March 2020 McDonald A, Rushing E, Nicaise A, Bell A, Kummari E, and Kaplan BLF. Effect of TCDD on Antibody Production in Various Anatomic Locations in Experimental Autoimmune Encephalomyelitis. Society of Toxicology Annual Meeting. *The Toxicologist* 174 #1837. Anaheim, CA (in person presentation canceled due to COVID-19)