

PERSONAL

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

bkaplan@cvm.msstate.edu

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 2019-present 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) in person visit canceled due to COVID

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" 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

Gallup Strengths Finder 2.0

Top 5 strengths identified: Woo, Positivity,

Communication, Input, Learner

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

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

GRADUATE MENTORING

Mississippi State University

Ryanne Murray January 2024-present

Masters of Science

Veterinary Medical Sciences Concentration

Arpita Deb June 2023-present

Doctor of Philosophy

Environmental Toxicology Concentration

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

 Mississippi State University Office of Research and Economic Development Graduate Student Travel Award, March 2022

■ 1st place, Graduate student poster presentation, Mississippi State University Graduate Student Symposium, June 2022

 2nd place, Graduate student poster presentation, Mississippi State University College of Veterinary Medicine Annual Research Day, August 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

- Student representative for Society of Toxicology Comparative and Veterinary Specialty Section, May 2017-present
- 2nd place, Graduate student poster presentation, Society of Toxicology South Central Regional Chapter Annual Meeting, October 2017
- 2nd place, Graduate student poster presentation, Mississippi State University Graduate Research Symposium, February 2018
- Society of Toxicology Roger O. McClellan Student Award, March 2018
- 1st place, Graduate student oral presentation, Mississippi State University College of Veterinary Medicine Research Day, August 2018
- 2nd place, Graduate student oral presentation, Society of Toxicology South Central Regional Chapter Annual Meeting, October 2018
- 2nd place, Graduate student oral presentation, Mississippi State
 University College of Veterinary Medicine Research Day, August 2019
- Society of Toxicology Outstanding Graduate Student Leadership Committee Award, March 2019

- Mississippi State University Office of Research and Economic Development Graduate Student Award for the College of Veterinary Medicine, March 2020
- 2nd place, Graduate student poster presentation, Mississippi State University College of Veterinary Medicine Research Day, August 2020 (virtual)
- 2nd place Graduate student poster presentation, Mississippi State University Graduate Research Symposium, October 2020 (virtual)
- Grand Champion Runner Up Mississippi State University 3-Minute Thesis (3-MT) competition, November 2020 (virtual)
- 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

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

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

Michigan State University

Tyrell Simkins August 2007-January 2014

Doctor of Philosophy (DO/PhD program), Neuroscience Program (Co-Pls

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

Peter Spoelker
Sabrina Dixon
Sabrina Dixon
Sabrina Dixon
Sabrina Dixon
Sabrina Dixon
Sabrina DVM summer research scholar 2023
Saris Blankenship
Matt Mitsch

Sabrina DVM summer research scholar 2023

Sabrina DVM summer research scholar 2022

Sabrina DVM summer research scholar 2022

1st place, Oral Presentations for SRE Category, MSU-CVM

Research Day, August 2022

Madison Mertz
Abbey Fleming
Carly Campbell
Mimi Pelanne
Clare Brown
Jessica Sherman

1st year DVM summer research scholar 2020
1st year DVM summer research scholar 2020
1st year DVM summer research scholar 2019
1st year DVM summer research scholar 2018
1st year DVM summer research scholar 2018
1st year DVM summer research scholar 2017

1st place, Oral Presentations for SRE Category, MSU-CVM

Research Day, August 2017

Christa Gilfeather 1st year DVM summer research scholar 2016

Yianelly Rodriguez 1st year DVM summer research scholar (Tuskegee University)

201

Ruiz

Brittany Szafran 1st year PhD/DVM summer research scholar 2014

VETERINARY STUDENT RESEARCH INITIATIVE (VSRI) MENTORING

Clare Brown 4th year DVM student research rotation 2020

 2024 MSU-CVM Phi Zeta Chapter Manuscript award for Brown, et. al., 2023, Vet Immunol Immunopathol doi 10.1016/j.vetimm.2023.110667

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

UNDERGRADUATE MENTORING

Mississippi State University

Josie Baird Mississippi State University undergraduate student worker

May 2024-present

Kacy Crothers Mississippi State University undergraduate student worker

May 2024-present

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: Cannabinoids Modulate T Cell Function in vitro Following Stimulation with a Peptide Associated with Multiple Sclerosis

• 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: Effect of TCDD on B Cell Populations in

Various Anatomic Locations in EAE

• 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 Shackoul's 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

Oluwabori Adekanye Doctor of Philosophy, Department of Comparative Biomedical Sciences

PI Matthew Ross, May 2023-present

Yi Cheng Doctor of Philosophy, Department of Clinical Sciences

PI Andrew Mackin, March 2023-present

Cassandra Barber Doctor of Philosophy (DVM/PhD program), Department of Pathobiology

and Population Medicine

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, Department of Comparative Biomedical Sciences

PI Janice Chambers, October 2021-May 2023

Kylee Burroughs Masters, Department of Comparative Biomedical Sciences

PI Russell Carr, October 2021-July 2022

Afzaal Nadeem Doctor of Philosophy, Department of Basic Sciences

Mohammad Environmental Toxicology track

PI Russell Carr, November 2014-June 2018

Juyeun Lee Doctor of Philosophy, Department of Basic Sciences

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

Ngaotepprutaram 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

None at this time.

CURRENT

PI, "Multiple therapy approach for multiple sclerosis: Probiotics, antidepressants, and plant-derived immune suppressants"

MSU CVM 08/01/24-07/31/25
Office of Research and Graduate Studies \$10000 total directs

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

Suppression"

2R15 ES027650 08/03/22-08/02/25 NIH/National Institute for Environmental Health Sciences \$300,000 total directs

PI, "Research Experience Program for Veterinary Students"

N/A 04/28/23-08/31/23 Boehringer-Ingelheim \$13,000 total costs

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

T35OD010432 05/01/21-04/30/27 NIH \$545,025 total directs

Co-I (PI Ross), "Crosstalk between CES1 and PPARγ and LXRα"

1R15HL157818-01A1 03/15/22-03/14/25 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 09/01/23-08/31/26 NIH/National Institute for Environmental Health Sciences \$300,000 total directs

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

Co-PI (Co-PI Carr, Ross and Swanson), "Analysis of Blood Levels of CBD utilizing a Slow-

Release Device"

N/A 11/01/21-04/30/22 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 09/30/17-08/31/20

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) 06/01/16-05/31/18

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

NCE 2021

NIH/National Institute for General Medical Sciences

\$300,000 total directs

04/01/18-03/30/21

INTRAMURAL COMPLETED

- 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 (74 published, 2 pending)

- 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*, submitted.
- Hoberman A and <u>Kaplan BLF</u>. Practical Lessons of the 3Rs: Learning from Past and Looking Toward the Future. *Curr Opin Toxicol*, submitted.

- Sulentic CEW, <u>Kaplan BLF</u>, 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*, submitted.
- Frodella CM, Pruett SB, Ross MK and <u>Kaplan BLF</u>. 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
- Frodella CM, Pruett SB and <u>Kaplan BLF</u>. 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 <u>Kaplan BLF.</u> 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.
- Dixon S, Deb A and <u>Kaplan BLF</u>. 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
- 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 <u>Kaplan BLF</u>, 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
- Brown C, Mitsch M, Blankenship K, Campbell C, Pelanne M, Sears J, Bell A, Olivier AK, Ross MK, Archer T and <u>Kaplan BLF</u>. 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
- Nichols J and <u>Kaplan BLF</u>. Age-dependent Effects of Transgenic 2D2 Mice Used to Induce Passive EAE in C57BL/6 Mice. *Neuorimmunomodulation*, 30: 291-301. doi 10.1159/000534351.
- Szafran B, Nichols J, Nicaise A, Borazjani A, Carr RL, Wilson JR, Ross MK and Kaplan BLF. Cnr1 Knockout has Minimal Impact on Chlorpyrifos-mediated Effects in the Mouse Endocannabinoid System, but it Does Alter Lipopolysaccharide-induced Cytokine Levels in Splenocytes. Chemico-Biological Interact. 375: 110425. doi 10.1016/j.cbi.2023.110425
- 2023 <u>Kaplan BLF</u> and Lawrence BP. Environmental Chemical-Sensing AHR Remains an Enigmatic Key Player in Toxicology. *Environ Health Perspect.* 131: 31307. doi 10.1289/EHP12535; *invited perspective
- 2023 <u>Kaplan BLF</u>, Swanson EA, Ross MK, Olivier AK, Guo-Ross SX, Burroughs KB, Ross AK, Matula M, Tarbox T, Greenberg M and Carr RL. Nanochannel Delivery for CBD Therapy: Sustained Low Level Plasma Levels without Liver Toxicity. *J Drug Delivery Sci Technol* 79: 104029. doi 10.1016/j.iddst.2022.104029
- McDonald A, Nicaise A, Rushing Sears E, Bell A, Kummari E and <u>Kaplan BLF</u>. Potential for TCDD to Induce Regulatory Functions in B Cells as Part of the Mechanism for T Cell Suppression in EAE. *Toxicol Appl Pharmacol*. 454: 116259. doi 10.1016/j.taap.2022.116259

- Szafran B, Borazjani A, Scheaffer H, Crow J, McBride A, Adekanye O, Lehner R, Kaplan BLF and Ross, MK. Ces1d Inactivation Augments Lung Inflammation in Female Mice. *ACS Pharmacol Transl Sci.* 5: 919-931. DOI: 10.1021/acsptsci.2c00098
- Germolec DR, Lebrec H, Anderson SE, Burleson GR, Cardenas A, Corsini E, Elmore SE, <u>Kaplan BLF</u>, Lawrence BP, Lehmann GM, Maier CC, McHale CM, Myers LP, Pallardy M, Rooney AA, Zeise L, Zhang L and Smith MT. Consensus on the Key Characteristics of Immunotoxic Agents as a Basis for Hazard Identification. *Environ Health Perspect*. 130: 105001. DOI: 10.1289/EHP10800
- 2022 <u>Kaplan BLF</u>, Baglole C and Sulentic CEW. The Enigmatic Role of the Aryl Hydrocarbon Receptor in Immune Modulation: Some Progress but More Questions. *Front Toxicol.* 4: 1-3. *editorial DOI: 10.3389/ftox.2022.941665
- Aloufi N, Traboulsi H, Namkung Y, Wilson E, Laporte S, <u>Kaplan BLF</u>, Ross M, Nair P, Eidelman DH and Baglole CJ. Standardized Cannabis Smoke Extract Induces Inflammation in Human Lung Fibroblasts. *Front Pharmacol.* 13:852029. DOI: 10.3389/fphar.2022.852029
- Nicaise AJ, McDonald A, Rushing Sears E, Sturgis T and <u>Kaplan BLF</u>. TCDD Inhibition of IgG1 Production in Experimental Autoimmune Encephalomyelitis (EAE) and In Vitro. *Antibodies*. 11: 4. doi.org/10.3390/antib11010004
- 2022 Stokes JV, Nicaise AJ, Frodella CM, Varela-Stokes A, Thompson T and <u>Kaplan BLF</u>. Isolation of Transcriptomic-Quality Total RNA from Mouse Spinal Cords. *Current Prot Neurosci.* 2(1):e338. DOI: 10.1002/cpz1.338
- Szafran B, Borazjani A, Seay C, Carr R, Lehner R, <u>Kaplan BLF</u> and Ross, MK. Effects of Chlorpyrifos on Serine Hydrolase Activities, Lipid Mediators, and Immune Responses in Lungs of Neonatal and Adult Mice. *Chem Res Toxicol.* 34: 1556-1571. DOI: 10.1021/acs.chemrestox.0c00488
- 2021 Kummari E, Rushing E, Nicaise A, McDonald A and <u>Kaplan BLF</u>. **2021**. TCDD Attenuates EAE Through Induction of FasL on B Cells and Inhibition of IgG Production. *Toxicology*. 448:152646. DOI: 10.1016/j.tox.2020.152646
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CHAPTERS

- 2024 <u>Kaplan BLF</u>. Immunotoxicology of Drugs of Abuse. In: *Comprehensive Toxicology* 4th Edition (ed. L A Burns-Naas). Elsevier, Atlanta, GA. Chapter 11.36, In Press.
- Anderson S, Sulentic CEW and <u>Kaplan BLF</u>. 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

- 2021 Kaminski NE and <u>Kaplan BLF</u>. Immunomodulation by Cannabinoids: Current Uses, Mechanisms, and Identification of Data Gaps to be Addressed for Additional Therapeutic Application. In: *Advances in Pharmacology* Volume 91. (ed. CE Rockwell and B Copple). Chapter 1. Pp. 1-59. Science Direct. DOI: 10.1016/bs.apha.2021.01.001
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- 2018 <u>Kaplan BLF.</u> Evaluation of Marijuana Compounds on Neuroimmune Endpoints in Experimental Autoimmune Encephalomyelitis. In: *Current Protocols in Toxicology*. 75: 11.25.1-11.25-22. Wiley, Hoboken, NJ. DOI: 10.1002/cptx.43.
- 2017 <u>Kaplan BLF.</u> Immunotoxicology of Drugs of Abuse. In: *Comprehensive Toxicology* 3rd *Edition* (ed. C McQueen). Elsevier, Atlanta, GA. Chapter 11.36, pages 791-825.
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PODCASTS

- 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 <u>Kaplan BLF</u>. 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=Referrels&utm_campaign=To Xchange& zs=PiO2m& zl=fMe23
- 2024 <u>Kaplan BLF</u> 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/
- 2018 <u>Kaplan BLF.</u> CBD is Certainly a Big Deal! PLOS Science Communication Blog. Posted July 5, 2018. http://blogs.plos.org/scicomm/2018/07/05/cbd-is-certainly-a-big-deal/
- 2017 <u>Kaplan BLF.</u> 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

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

2019

INVITED SPEAKING ENGAGEMENTS

August 2024	Impact of a Freshwater Incursion on Chemical Contaminants in Tissues of Dolphins that Stranded in MS Sound, MSU Global Center for Aquatic
June 2024	Health and Food Security Marine Monday Seminar Series, Starvkille, MS 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 Agrosciences 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
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,
October 2021	Undergraduate Education Network Webinar, virtual 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 2019	Mechanisms of Immune Suppression by Plant-Derived Cannabinoids, East Carolina University, Department of Anatomy and Cell Biology, Greenville, NC
February 2019	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 Immunopharmacology of Cannabinoid Compounds: Roles of the G December 2013 Protein-Couple Receptors CB₁ and CB₂, 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 CB₁ and CB₂, Kyungpook National University College of Pharmacy, Daegu, South Korea The Role of CB₁, CB₂ and β2AR in Cannabinoid-Mediated Inhibition of August 2012 Spleen Capsule Norepinephrine and Humoral Immunity, Mississippi State University Department of Basic Sciences, Starkville, MS The Role of CB₁, CB₂ and β2AR in Cannabinoid-Mediated Suppression of **April 2012** Immune Function, Midwestern University, Department of Pharmacology, Downers Grove. IL Cannabis Chemistry, Biology and Immunology: An Overview of the **April 2012** 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 The Role of CB₁, CB₂ and β2AR in Cannabinoid-Induced Immune July 2011 Suppression, Michigan State University Department of Pathobiology and Diagnostic Investigation, East Lansing, MI The Role of CB₁, CB₂ and β 2AR in Δ ⁹-THC-Induced Suppression of February 2011 Humoral Immunity, University of North Carolina, Greensboro, Department of Biology, Greensboro, NC Development of Models to Assess Effects of Cannabinoids on Pulmonary January 2009 Inflammation, Michigan State University Respiratory Research Initiative Meeting, East Lansing, MI Intranasal Instillation of Lipopolysaccharide: A Murine Model of Pulmonary September 2007 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

MEETING PRESENTATIONS

ORAL PRESENTATIONS

March 2024 Kaplan BLF. How to Get Started With Science Communication. Society of Toxicology Annual Meeting Tiny Tox Talk (replaced speaker with family

College Science Club Meeting, Sidney, MI

emergency), Salt Lake City, UT

June 2023 Kaplan BLF. Detection of Contaminants in Bottlenose Dolphins (Tursiops truncatus) Stranded Along the Mississippi Sound from 2010 - 2021. Gulf of Mexico Energy Securities Act (GoMESA) Update and Strategy Meeting, virtual November 2022 Kaplan BLF. Development of a Detailed Review Paper (DRP) on Nonanimal Approaches for Immunosuppression, Japanese Society for Alternatives to Animal Experiments Annual Meeting, Shizuoka, Japan March 2022 Kaplan BLF. Talking about Toxicology: Some Tips for Explaining the Frustrating Scientific Gray Areas. Society of Toxicology Annual Meeting, The Toxicologist 186 #1202, San Diego, CA Kaplan BLF. Interferon (IFN)-Gamma is a Sensitive Target in CBD-Induced March 2021 Immune Suppression In Vivo and In Vitro. Society of Toxicology Annual Meeting, The Toxicologist 180 #1307, Virtual November 2020 Kaplan BLF. Inhibition of Peripheral Immune Function Neuroinflammation by CBD in EAE. Center for Research on Ingredient Safety at Michigan State University 2020 Science Symposium, Virtual March 2020 Kaplan BLF. Cannabidiol Suppresses IFN-y Production Neuroinflammation in the EAE Model. Society of Toxicology Annual Meeting, The Toxicologist 174 #2454, Virtual Kaplan BLF. Oral Administration of the Plant-derived Cannabinoid, August 2019 Cannabidiol (CBD). Attenuates Experimental Autoimmune Encephalomyelitis (EAE). Mississippi IDeA Conference, Jackson, MS Kaplan BLF. Graduate Toxicology Presented in the Context of Problem March 2018 Formulation and Experimental Design. Society of Toxicology Annual Meeting, The Toxicologist 162 #3292 San Antonio, TX Kaplan BLF. Model Systems and Regulations for Cannabinoid Research in March 2018 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. Kaplan BLF. Make an Impact with Your Research Seminar. Society of March 2016 Toxicology Annual Meeting, The Toxicologist 150 #3354, New Orleans, LA Kaplan BLF. Cannabinoid-Induced Suppression of β2AR⁺ B Cell Function. March 2014 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, 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 Kaplan BLF and Kaminski NE. The Mechanism by Which Cannabidiol, a March 2008 Plant-Derived Cannabinoid, Suppresses Immune Function Involves Suppression of Nuclear Factor or 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-y Production. Society of Toxicology Annual Meeting, The Toxicologist 90 #369, New Orleans, LA. Kaplan BLF. Roszkowski JJ and Nishimura MI. Alteration of T Cell May 2002 Specificity with TCR Genes: Use in a Melanoma Model. Ninth Annual Charles Huggins Research Conference, Chicago, IL Faubert BL and Kaminski NE. The Role of ERK MAP Kinases in June 2000 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 Faubert BL. Inhibition of AP-1 and NF-AT Binding by Cannabinol in Mouse June 1998 Splenocytes. Twenty-Sixth Annual Pharmacology Research Colloquium, Toledo, OH Faubert BL. Inhibition of AP-1 Binding in Splenocytes by Cannabinol is June 1997 Mediated by an Inhibition of its Protein Components, c-fos and c-jun. Twenty-Fifth Annual Pharmacology Research Colloquium, Detroit, MI

POSTER PRESENTATIONS

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, Kaplan BLF, Landrau-Giovannetti N, Reichley S, Moore D, Madrigal T, February 2024 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 Kaplan BLF, McDonald A, Nicaise A, Rushing Sears E, Bell A, and March 2023 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 Kaplan BLF, Nicaise A, Sturgis T, and Olivier A. Effects of TCDD in the March 2022 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. Boraziani A. Andrzeiewski 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 Kaplan BLF, Kummari E, Yang E-J and Dhital S. Low Dose TCDD Inhibits August 2016 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 Kaplan BLF, Stokes J and Yang E-J. Inhibitory Effect of Subchronic Low March 2016 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 Kaplan BLF, Rodriguez-Ruiz Y, Park N, Yang E-J, Eells J, and Seo K-S. November 2015 Staphylococcus aureus Superantigen-induced T Regulatory Cells in Mouse Splenocytes. 2015 Southeast MS IDeA Conference, Biloxi, MS Kaplan BLF, Szafran B, Borazjani A, Lee J and Ross MK. LPS Suppresses March 2015 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 Kaplan BLF, Chen W, Zhang Q, Baker GL and Kaminski NE. Engineered March 2013 Nanoparticles Enhanced CD8+ T Cell Cytokine Production. Society of Toxicology Annual Meeting, The Toxicologist 132 #1760, San Antonio, TX Kaplan BLF, Chen W, and Kaminski NE. Induced T Cell Cytokine March 2012 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 Kaplan BLF, Crawford RB, Arencibia A, Kim SS, Pinnavaia TJ, and March 2010 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

Kaplan BLF, Moore TV, Schreiber K, Callender GG, Schreiber H and May 2004 Nishimura MI. Human Her-2/Neu-Reactive T Cells Recognize Two Novel Murine Tumor Cell Lines. Eleventh Annual Charles Huggins Research Conference, Chicago, IL Kaplan BLF, Moore TV, Schreiber K, Callender GG, Schreiber H and January 2004 Nishimura MI. Two Novel Murine Cell Lines Express Functional HLA-A2/Kb. Midwinter Conference of Immunologists, Pacific Grove, CA October 2002 Kaplan BLF, Schreiber K and Nishimura MI. A New Mouse Tumor Model for Human Cancer. Committee on Immunology Annual Retreat, Lake Geneva, WI Faubert Kaplan BL and Kaminski NE. Immune Suppression by March 2001 Cannabinoids is Mediated via a CB1-, CB2-Independent Inhibition of Interleukin-2. Society of Toxicology Annual Meeting, The Toxicologist 60, San Francisco, CA Faubert BL and Kaminski NE. Cannabinol-induced Immune Suppression October 1999 Involves Inhibition of the Activation of ERK MAP Kinases. College of Veterinary Medicine Research Day, Michigan State University, East Lansing, MI Faubert BL and Kaminski NE. Cannabinol-induced Immune Suppression September 1999 Involves Inhibition of the Activation of ERK MAP Kinases. Fourteenth Annual Symposium on Mechanisms of Immunotoxicity, Morgantown, WV Faubert BL and Kaminski NE. Inhibition of MAPK (ERK) Activation by March 1999 Cannabinol in PMA/Io-Stimulated Mouse Splenocytes. Society of Toxicology Annual Meeting, The Toxicologist 48, New Orleans, LA Faubert BL and Kaminski NE. Effects of Cannabinol on c-fos and c-jun September 1998 Protein Expression in Mouse Splenocytes. Thirteenth Annual Symposium on Mechanisms of Immunotoxicity, Morgantown, WV May 1998 Faubert BL. 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 Faubert BL and Kaminski NE. Cannabinoid Compounds Inhibit Binding to Several Different AP-1 Sites. Society of Toxicology Annual Meeting, The Toxicologist 42, Seattle, WA September 1997 Faubert BL 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 Faubert BL and Kaminski NE. Inhibition of AP-1 Binding in Splenocytes by March 1997 Cannabinol is Mediated by an Inhibition of c-fos. Society of Toxicology Annual Meeting, The Toxicologist 36, Cincinnati, OH. Faubert BL, Pulaski J, Hwang SG and Kaminski NE. Immune System June 1996 Tolerance to Cannabinoids: The Role of the CB2 Receptor In Vivo and In

MEETING ABSTRACTS (PAST 5 YEARS)

Lansing, MI

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.

Vitro. Twenty-Fourth Annual Pharmacology Research Colloquium, East

May 2024	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). Kaplan BLF, 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	Kaplan BLF, 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 Fcγ Receptors in Mouse Splenocytes Stimulated with IgG1 Immune Complex. Mississippi State University Shackouls Honors College Undergraduate Research
April 2024	Symposium. Starkville, MS 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	Optimization of Immune Complex Formation to Trigger Fc _γ Receptor Signaling for In Vitro Immunotoxicity Assays. Deb A and <u>Kaplan BLF</u> . Society of Toxicology Annual Meeting, <i>The Toxicologist</i> 198 #3452, Salt Lake City, UT
February 2024	Kaplan BLF, 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 Fcγ 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 Kaplan BLF. 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 Kaplan BLF. Cannabinoid vehicle effects on immune function in dog PBMCs. Mississippi State University College of Veterinary Medicine Annual Research Day, Starkville, MS Frodella C, Pruett SB and Kaplan BLF. Pre-treatment with Cannabidiol August 2022 Impacts Macrophage Polarization and Secretion of TNFα through Tumor Necrosis Factor-α-converting Enzyme (TACE). Mississippi State University College of Veterinary Medicine Annual Research Day, Starkville, MS Blankenship K, Mitsch M and Kaplan BLF. In Vitro Model of MOG and OVA August 2022 Peptide-Stimulated T-Cell Responses and Effects of Cannabinoids, 23rd Annual Boehringer-Ingelheim National Veterinary Scholars Symposium, Minneapolis, MN Mitsch M, Blankenship K, Archer T and Kaplan BLF. Cannabinoid vehicle August 2022 effects on immune function in dog PBMCs. 23rd Annual Boehringer-Ingelheim National Veterinary Scholars Symposium, Minneapolis, MN Frodella C, Pruett SB and Kaplan BLF. Exploring the Impact of Cannabidiol June 2022 on the Brain Transcriptome in a Mild Disease Model of Experimental Autoimmune Encephalomyelitis. 32nd Annual International Cannabinoid Research Society Meeting, Galway, Ireland April 2022 Cresswell O and Kaplan BLF. 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 Rogers J. Moore D. Brown A. Sparks D. Lawrence M. Reichley S and April 2022 Kaplan BLF. 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 Kaplan BLF. Method Optimization for Studying Effects of Cannabinoids on Canine PBMC Immune Responses. 22nd Annual Boehringer-Ingelheim National Veterinary Scholars Symposium, Virtual March 2022 Sturgis T, Nicaise A and Kaplan BLF. 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 Kaplan BLF. 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 Sturgis T, Nicaise A and Kaplan BLF. Effect of an Endogenous AhR Ligand, August 2021 ITE, on Autoimmune Disease in Male and Female Mice. MS INBRE Conference, Jackson, MS Frodella C and Kaplan BLF. Pilot Study Reveals Sex Differences in T cell June 2021 Stimulated Mouse Splenocytes Pre-treated with Cannabidiol. 31st Annual International Cannabinoid Research Society Meeting, Jerusalem (virtual)

April 2021 Cresswell O and Kaplan BLF. Development of an In Vitro Peptidestimulated T Cell Model to Study Cannabinoid Effects. Mississippi State University Shackouls Honors College Undergraduate Research Symposium. Virtual Nicaise A and Kaplan BLF. TCDD Inhibits IgG1 Antibody Production In **April 2021** Vivo and In Vitro. Mississippi State University Shackouls Honors College Undergraduate Research Symposium. Virtual March 2021 Szafran BN, Borazjani A, Carr R, Ross MK, and Kaplan BLF. Carboxylesterase Inactivation by Chlorpyrifos: Immunotoxic or Protective in the Murine Lung? Society of Toxicology Annual Meeting. Abstract #3110, Virtual March 2021 Nicaise A and Kaplan BLF. TCDD Inhibits IgG1 Antibody Production In Vivo and In Vitro. Society of Toxicology Annual Meeting. Abstract #2414, Virtual Szafran B. Boraziani A. Carr RL. Ross MK and Kaplan BLF. Immune November 2020 Effects of Carboxylesterase Inactivation in the Neonatal Murine Lung. Society of Toxicology South Central Regional Chapter Annual Meeting. Virtual Frodella, C, Nanduri, B and Kaplan BLF. A Reanalysis: CBD-Treated November 2020 Human Neuroblastoma Cells Reveal Potential Mediators in Understanding the Anti-inflammatory and Neuroprotective Mechanisms. Society of Toxicology South Central Regional Chapter Annual Meeting. Szafran B, Borazjani A, Carr RL, Ross MK and Kaplan BLF. Immune October 2020 Effects of Carboxylesterase Inactivation in the Neonatal Murine Lung. Mississippi State University Graduate Research Symposium. Virtual Szafran B, Borazjani A, Carr RL, Ross MK and Kaplan BLF. Immune August 2020 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 Kaplan BLF. 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 Kaplan BLF. Immune Effects of Carboxylesterase Inactivation in the Neonatal Murine Lung. 21st Annual Boehringer-Ingelheim National Veterinary Scholars Symposium, Virtual Campbell C, Fleming A and Kaplan BLF. Effects of Cannabinoids on August 2020 TNF-α in Mouse Splenocytes as a Pre-clinical Model for Canine Immune Function. 21st Annual Boehringer-Ingelheim National Veterinary Scholars Symposium. Virtual Fleming A, Campbell C, Jaffe M and Kaplan BLF. Establishment of a Cell August 2020 Culture Model Using Whole Lung to Study Effects of Cannabinoids. 21st 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 <u>Kaplan BLF</u> . TCDD-mediated Upregulation of FasL on B cells Triggers Apoptosis in T Cells in EAE. Society of Toxicology Annual Meeting. <i>The Toxicologist</i> 174
March 2020	#1836. Anaheim, CA (in person presentation canceled due to COVID-19) McDonald A, Rushing E, Nicaise A, Bell A, Kummari E, and <u>Kaplan BLF</u> . Effect of TCDD on Antibody Production in Various Anatomic Locations in Experimental Autoimmune Encephalomyelitis. Society of Toxicology Annual Meeting. <i>The Toxicologist</i> 174 #1837. Anaheim, CA (in person presentation canceled due to COVID-10)
October 2019	presentation canceled due to COVID-19) Szafran B, Pinkston R, Perveen Z, Schexnayder M, Hossain E, Ross M, Penn A, <u>Kaplan B</u> , and Noel A. Immune Consequences of Electronic- Cigarette Vehicle and Flavoring in Mouse Lungs. Society of Toxicology South Central Regional Chapter Annual Meeting. Shreveport, LA
October 2019	Nicaise A, Bell A, McDonald A, Rushing E, Kummari E, and <u>Kaplan BLF</u> . The Effect of the Environmental Contaminant, TCDD, on IgG1 And IgG3 Antibodies In Vitro. Society of Toxicology South Central Regional Chapter Annual Meeting. Shreveport, LA
October 2019	Bell A, Nicaise A, McDonald A, Rushing E, Kummari E, and <u>Kaplan BLF</u> . Role of Iron in TCDD-Mediated Suppression of Experimental Autoimmune Encephalomyelitis. Society of Toxicology South Central Regional Chapter Annual Meeting. Shreveport, LA
August 2019	Nichols J and <u>Kaplan BLF</u> . The Role of CB1 in Experimental Autoimmune Encephalomyelitis. Mississippi State University College of Veterinary Medicine Annual Research Day. Starkville, MS
August 2019	Szafran B, Borazjani A, Carr RL, Ross MK and <u>Kaplan BLF</u> . Immune Consequences of carboxylesterase isoform-selective inactivation in the murine lung. Mississippi State University College of Veterinary Medicine Annual Research Day. Starkville, MS
August 2019	Nicaise A, Kummari E and <u>Kaplan BLF</u> . Optimization of a Prime Flow RNA Expression Assay to Evaluate Effects of the Environmental Contaminant TCDD. Mississippi State University Shackoul's Honor College Undergraduate Research Symposium. Mississippi State, MS
July 2019	Pelanne M, Sears J, Ross M, Archer T and <u>Kaplan BLF</u> . The Effect of Cannabinoids on Pro-inflammatory Cytokines in Canine PBMCs and Granulocytes. 20 th Annual Boehringer-Ingelheim National Veterinary
July 2019	Scholars Symposium. Boston, MA Nichols J and <u>Kaplan BLF</u> . The Role of CB1 in Experimental Autoimmune Encephalomyelitis. Mississippi Academy of Sciences Meeting. Starkville, MS
July 2019	Szafran B, Borazjani A, Carr RL, Ross MK and <u>Kaplan BLF</u> . Carboxylesterase Isoform-Selective Inactivation in Lung Following Oral Chlorpyrifos Exposures of Neonatal and Adult Mice. Mississippi Academy of Sciences Meeting, Starkville, MS
July 2019	Nicaise A, Kummari E and <u>Kaplan BLF</u> . Optimization of a Prime Flow RNA Expression Assay to Evaluate Effects of the Environmental Contaminant TCDD. Mississippi Academy of Sciences Meeting. Starkville, MS
May 2019	Nichols J and <u>Kaplan BLF</u> . The Role of CB1 in Experimental Autoimmune Encephalomyelitis. American Association of Immunologists Annual Meeting. San Diego, CA
April 2019	Rushing E, Kummari E and <u>Kaplan BLF</u> . Optimization of JC-1 Apoptosis Assay to Evaluate Effects of the Environmental Contaminant TCDD.

Mississippi State University Shackoul's Honor College Undergraduate

Research Symposium. Mississippi State, MS

April 2019 Sears J, Brown C, Archer T and Kaplan BLF. In vitro Assessment of

Cannabinoids on Immune Responses in Canine PBMCs. Mississippi State University Shackoul's Honor College Undergraduate Research

Symposium. Mississippi State, MS

March 2019 Szafran B, Borazjani A, Carr RL, Ross MK and Kaplan BLF.

Carboxylesterase Isoform-Selective Inactivation in Lung Following Oral Chlorpyrifos Exposures of Neonatal and Adult Mice. Society of Toxicology

Annual Meeting. The Toxicologist 168 #1916. Baltimore, MD

March 2019 Kummari E, Kaplan BLF. Effect of TCDD on B Cell Responses in the Spinal

Cord in EAE. Society of Toxicology Annual Meeting. *The Toxicologist* 168

#2318. Baltimore, MD

March 2019 Sears J, Brown C, Archer T and Kaplan BLF. In vitro Assessment of

Cannabinoids on Immune Responses in Canine PBMCs. Society of Toxicology Annual Meeting. *The Toxicologist* 168 #2288, Baltimore, MD

PROFESSIONAL ACTIVITIES

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

January 2020-present Editorial Board Member, Toxicological Sciences

February 2021-June 2022 Guest Editor, Role of The Aryl Hydrocarbon

Receptor in Immune Modulation, Frontiers in

Toxicology Research Topic

PEER REVIEWER

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

October 2019 Ad hoc reviewer, NSF International Health Advisory Board,

Ann Arbor, MI

May 2020 Ad hoc reviewer, NSF International Health Advisory Board,

virtual

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

Deliverable: "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.

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, National Institutes of Health

Sciences, Tokyo, Japan

PEER REVIEWER GRANT PANELS (VIA VIDEO CONFERENCE)

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)

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 2020 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 2024-present Appointed member, Society of Toxicology Board of

Publications

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

May 2024	Co-chair, Society of Toxicology/US Food and Drug Administration Colloquium, "Current State of the Science: Toxicology of Cannabidiol and Other Cannabinoids", 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 "Talksicology: 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

One day annually since 2017	Faculty interviewer Mississippi State University College of
Fabruary 2024 range and	Veterinary Medicine for veterinary school admission
February 2024-present	Member, Mississippi State University College of Veterinary
	Medicine Bylaws and Policy Task Force
January 2024-present	Member, Search Committee for Mississippi State University
	Department of Comparative Biomedical Sciences Head

May 2024-present Director, Mississippi State University College of

Veterinary Medicine Summer Research Experience (SRE)

for veterinary students

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 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 (ad hoc), 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

October 2012

April 2015-April 2016

July 2011-June 2013 Faculty Representative, Michigan State University College

of Veterinary Medicine Graduate Grievance Hearing Pool Faculty Judge for Graduate Student Oral Presentations, Michigan State University College of Veterinary Medicine

Phi Zeta Dav

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", 58th Senior Scientific Session for Medical Students, University of Chicago

SEMINARS HOSTED AT MISSISSIPPI STATE UNIVERSITY

October 2022 Dr. Courtney Sulentic, Associate Professor, Pharmacology and Toxicology

Wright State University Boonshoft School of Medicine

"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