

RESEARCH DAY 2021



Idaho College of Osteopathic Medicine



FRIDAY, MARCH 5, 2021

1 p.m. to 4 p.m.

A VIRTUAL EVENT

VIRTUAL RESEARCH DAY 2021

KEYNOTE ADDRESS

Friday, March 5, 2021 at 1 p.m.



BRIAN MARTIN, PHD | ICOM ASSOCIATE PROFESSOR OF PATHOLOGY

Ebola Virus Vaccine Development in a Pandemic

Abstract: The first signs that something was amiss in West Africa was in January 2014. There were deaths that resembled those caused by Ebola virus, but that disease was thought to be confined to central Africa, 3000 miles away. At that time, the most advanced Ebola vaccine candidate had only been tested in animals and it was becoming increasingly clear as deaths mounted that a human vaccine was needed as soon as possible. The rapid pace with which this Ebola vaccine went from a laboratory-grade product to an approved vaccine was unprecedented (until COVID-19). This presentation will review the development of the vaccine, the collaborations involved, the assistance from US and international agencies and the different companies involved. The lessons learned (or not learned) from this experience will be examined in the context of the current coronavirus pandemic.

Biography: Dr. Martin grew up in the Weiser, ID area, attended two years at the University of Idaho, and finished his Bachelor of Science degree at Oregon State University. He did his Ph.D. in the Department of Pathology at the University of Utah in molecular immunology. Dr. Martin's postdoctoral fellowship at the University of North Carolina at Chapel Hill focused on tumor immunotherapy and molecular immunology. He was on the faculty at the University of Iowa Medical School in the department of Microbiology where he studied neuroinflammation, age-related macular degeneration, and molecular immunology. He next moved to biotechnology where he started as a senior scientist before rising to the position of Vice President of Infectious Disease at NewLink Genetics. Here he focused his research on optimization of viral vaccines with particular emphasis on influenza and Ebola vaccines. Through collaborations with a top-notch team and Merck, his work on Ebola helped to facilitate the first vaccine approved for Ebola. Dr. Martin then moved back to academia after taking a position at the Idaho College of Osteopathic Medicine.

Link: <https://icom.webex.com/icom/onstage/g.php?MTID=e2738d43aa28760be54086676f250315c>

Password: researchday

VIRTUAL RESEARCH DAY 2021

STUDENT SPEAKERS

Friday, March 5, 2021



KATE BUHRKE, OMS-III ICOM

2 p.m.

Clinical, Functional, and Radiographic Outcomes of the BOAT Osteotomy

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Password: researchday



DAYNE MOORE, OMS-II ICOM

2:10 p.m.

Increased Anterior Pelvic Tilt and its Effect on Low Back Pain: A Literature Review

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SARAH PLACEK, OMS-III ICOM

2:20 p.m.

Osteopathic Medical Student Perceptions on Preclinical Medical Imaging Education

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VIRTUAL RESEARCH DAY 2021

STUDENT POSTER SESSIONS | 3 TRACKS

Friday, March 5, 2021

TIME	<u>BENCH RESEARCH*</u>	<u>CLINICAL RESEARCH*</u>	<u>LITERATURE REVIEW*</u>
2:35 p.m.	Austin DeTavis, OMS-II	Vishal Patel, OMS-I	Joshua Steinberg, OMS-II
2:50 p.m.	Kyler Pawlowski, OMS-II	Ryan Wertz, OMS-II	Katie Saunders, OMS-II
3:05 p.m.	Spencer Hassman, OMS-II	Karam Musaitif, OMS-II	Morgan Ferguson, OMS-II

**Click for WebEx link, password: researchday*

TITLES

Austin DeTavis, OMS-II | [Watch Video](#)

- *DNA through the decades: an analysis of the effect of sample age on the quantity and quality of nucleic acids extracted from formalin-fixed paraffin-embedded tissue samples.*

Kyler Pawlowski, OMS-II | [Watch Video](#)

- *Influence of Sphingosine-1-Phosphate Receptor Activation on Non-Neuronal CNS Cell Migration*

Spencer Hassman, OMS-II | [Watch Video](#)

- *SLC Gene Expression in Human Neural Cells*

Vishal Patel, OMS-I | [Watch Video](#)

- *Outcomes of Metabolic Resuscitation Using Ascorbic Acid, Thiamine, and Glucocorticoids in the Early Treatment of Sepsis: The ORANGES Trial*

Ryan Wertz, OMS-II | [Watch Video](#)

- *P38-gamma MAPK Is Essential for Aerobic Glycolysis and Pancreatic Tumorigenesis*

Karam Musaitif, OMS-II | [Watch Video](#)

- *Chemical screening identifies novel small molecule activators of NK cell cytotoxicity against cancer cells*

Joshua Steinberg, OMS-II | [Watch Video](#)

- *Literature Review on the Effectiveness of Interventions to Reduce Mental Health Stigma in Healthcare Providers and Healthcare Profession Students*

Katie Saunders, OMS-II | [Watch Video](#)

- *Literature Review of the Alanine/Serine/Cysteine/Threonine 1 (ASCT1) Transporter*

Morgan Ferguson, OMS-II | [Watch Video](#)

- *A Scoping Review of TIR-Domain Containing Proteins in Bacterial Pathogenesis*