

IPHY NEWSLETTER

Edition 26

Lab News

August 2024

Applied Biomechanics Lab



Members of the U.S. National Sled Hockey Team are working with CU researchers on a project that could ultimately improve performance and reduce injury for hockey players with lower-limb amputations or impairments. Zane Colvin, a recent IPHY doctoral graduate, explains how the study can help performance, and sled hockey captain Josh Pauls details how the study can help change their game.

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Genetics of Substance Abuse Disorders Lab



A new CU Boulder study looked at a smoking-related genetic variant, nicknamed "Mr. Big," and how the variant interacts with other genes. Within the sample group, they found that genes within chromosome 20 interacted with Mr. Big to influence the number of cigarettes smoked per day.

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Faculty News



Andrew Tan, assistant professor, Department of Integrative Physiology, and director of the Sensorimotor Recovery and Neuroplasticity Lab was recently named as a Boettcher Foundation 2024 Outstanding Biomedical Researcher. This amazing honor is accompanied by a \$250,000 grant. His research includes identifying predictive biomarkers for intermittent hypoxia induced motor recovery and learning in persons with incomplete spinal cord injury (isci).

Matthew Olm will be joining IPHY as an assistant professor starting Fall 2024. He comes to us from Stanford University, and recently moved to Boulder with his wife and 14-month-old daughter. He is starting an innovative computational research program focused on studying the relationship between human and microbial physiology. This will include using cutting-edge techniques to explore how the gut microbiome interacts with diet and other factors to prevent autoimmune disorders such as asthma, allergies, and irritable bowel disease. He will teach biostatistics for the department.



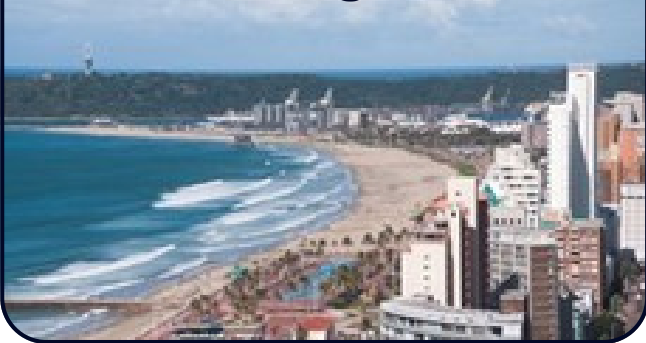
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Academic News

South Africa Health and Disease

IPHY 4041 Starting Summer 2025



Our department will be offering a new study abroad course in South Africa entitled Global Health and Disease. In this course students will research the nutritional content of the region's staple foods at a neighborhood market, investigate the diets of local families and how it may be based on availability and cost, gain perspectives on health and common diseases at local hospitals and clinics, and visit a traditional medicine research lab and explore its applications. This course will be taught by Drs. Jia Shi and Nicole Stob.

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