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Immunometabolism: The Potential Cause of and Solution to Our Most Pressing Poultry Problems in Health and Infectious Disease

Immunom etabolisme : la cause potentielle et la solution de nos probl emes avicoles les plus urgents en mati ere de sant e et de maladies infectieuses

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Dr. Ryan Arsenault is an Assistant Professor in the Department of Animal and Food Sciences at the University of Delaware. He received his Ph.D. in Biochemistry from the University of Saskatchewan conducting his doctoral research at the Vaccine and Infectious Disease Organization – InterVac, and his post-doctoral training at the United States Department of Agriculture’s Agricultural Research Service.

Dr. Arsenault’s current research centers on kinomics and the gut health of poultry, and includes the topics of immunometabolism, host-pathogen interactions, feed additives and antibiotic alternatives. Current research projects include host-pathogen interactions of *Salmonella*, Coccidiosis, and Necrotic Enteritis in broiler chickens, gastrointestinal immune development in broiler chickens, and immunometabolic responses to avian influenza in wild ducks.

Dr. Arsenault has published extensively in peer-reviewed scientific journals including *Science Signaling*, *The Journal of Immunology*, and *Infection and Immunity*. His teaching includes a graduate-level class on the microbiome and gut health, and an undergraduate class on One Health.