



Karan Agrawal Biography 2014

Karan Agrawal is a graduate student in the Pharmacology and Toxicology Graduate Group at the University of California, Davis. He received a B.A. in Chemistry and Biological Sciences at Cornell University in 2012, and a M.Sc. in Forensic Science at King's College London in 2013. A recipient of the 2011 AAVLD Trainee Travel Award, Karan has been involved with the veterinary diagnostic community since 2010, when he worked for the New York State Veterinary Diagnostic Laboratory and he has published papers on the pathophysiology of Red Maple Toxicosis in equids and a rapid screening method for corticosteroids in equine synovial fluid. His research interests span analytical chemistry, forensic toxicology, and analytical method development and his current projects, conducted under the supervision of Dr John Newman at the Western Human Nutrition Research Center facility of the USDA focus on quantitative analytical method development for measuring nitrate and lipid mediators (lipidomics) by LC-MS/MS, in various matrices such as serum, tissue and exhaled breath condensates. This includes evaluation of collection devices and associated analytical controls. He is also developing a nitrolipid metabolomic profile to enhance the understanding and interpretation of the nitric oxide pathway with respect to inflammation and insulin resistance. In his spare time, Karan enjoys watching cricket, playing squash, and trivia night at de Veres Irish Pub in Davis.