

Nonhuman Primates: A Leading Translational Model of Human Immune Senescence

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Date/Time: Friday, November 13, 2009; 5:30 pm (dinner included)

New Location: Doubletree Guest Suites, 320 North 44th St., Phoenix, AZ 85008

Cost: No cost to attend

Abstract: This presentation will explore the potential of old world primates to serve as a translational model for human aging research and more specifically immune senescence. Few animal models provide opportunities to evaluate diverse endpoints associated with aging. The advantages of old world monkeys include a larger size that allows more assessments; comorbidity patterns that closely mirror those seen in humans including spontaneous development of diabetes, hypertension, pancreatic and neurologic amyloid deposition atherosclerosis; characteristics and functional sequelae of disease that replicate those seen in humans; and a reproductive system that models sex differences in disease development or expression. This presentation will be divided into three parts. I will first review the hallmarks of immune senescence in rhesus macaques and compare them to the immune risk profile that has been described in older humans. I will then discuss the efficacy of caloric restriction as an immuno-restorative approach investigated in aged rhesus macaques. I will end by discussing the impact of menopause on immune function.

Objectives

- Characterization of immune senescence in aged rhesus macaques
- Can caloric restriction delay immune senescence?
- The impact of menopause on immune function

Biography: Dr. Ilhem Messaoudi is the Assistant Scientist in the Division of Pathobiology and Immunology at the Oregon National Primate Research Center. Previously, he was a Research Assistant Professor at the Vaccine and Gene Therapy Institute at the Oregon Health & Science University.

Dr. Messaoudi is a recipient of the 2009 Brookdale Leadership in Aging Fellowship. In 2008, he was awarded the Nathan Shock New Investigator Award from the Gerontological Society of America. His work has been published in numerous scientific journals, including *Aging Cell*, *Journal of Immunology*, *Virology*, and *Human Vaccines*.

Dr. Messaoudi received a BS in Biochemistry from Lafayette College in Easton, PA. He received his PhD in Immunology from Cornell University.

To RSVP or for additional information, please contact Stephanie Tusalem at (602) 778-7492 or via email at stephanie.tusalem@kronosinstitute.org

Special Note: *If your plans change after you RSVP please cancel at the above contact as well.*

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