**MMI 291 Seminar Series**

Current Theme: Interdisciplinary Research  
Fall Quarter 2021 – CRN 41611  

**Friday Seminar – 12:10-1 PM**

“Activation of ER stress impacts immune responses to enteric pathogens.”

**Research / Bio**

Dr. Marijke Keestra-Gounder earned her doctoral degree in 2008 from the Utrecht University (the Netherlands), Department of Infectious Diseases and Immunology. She was a postdoctoral researcher for 4 years (2008-2012) and a project scientist (2012-2016) for 4 years at the University of California, Davis, Department of Medical Microbiology and Immunology, in the laboratory of Dr. Andreas Bäumler. She joined the faculty of the University of Colorado School of Medicine, Department of Immunology and Microbiology in 2016. NOD1 and NOD2 are pattern recognition receptors that sense bacterial peptidoglycans from gram-positive and gram-negative bacteria. Recently, we have shown that NOD1 and NOD2 are also crucial sensors of endoplasmic reticulum stress. The link between the ER stress and NOD1/2 signaling is especially important in the intestinal tract since mutations in both pathways have been linked to increased susceptibility to colitis. In our lab we explore the connection between ER stress and NOD1/2 signaling using the Citrobacter rodentium and Salmonella Typhimurium infection models.

**Publications**

https://doi.org/10.1128/IAI.00826-18


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Marijke Keestra-Gounder, PhD  
Assistant Professor  
University of Colorado Denver, School of Medicine  
Department of Immunology and Microbiology

Nov 05, 2021  
12:10 – 1 PM  
ZOOM Meeting

Medical Microbiology & Immunology  
School of Medicine  

Seminar Contact: Autumn Vega  
530-752-9401  
advega@ucdavis.edu

We hope to see you there!