



MMI 291 Seminar Series

Spring Quarter 2023 – CRN 51609 - Hybrid

“Prenatal and postnatal environmental exposures and the etiology of autism spectrum disorders”

Research Bio: Graduated from the University of California Riverside, School of Medicine with a degree in Biomedical Science. His research focused on immune function and the modulation of brain activity, which leads to neurodegeneration, using microglial mutant mice. He then did his Postdoctoral Fellowship at the University of California Davis, MIND Institute (Medical Investigation of Neurodevelopmental Disorders). His current research focuses on how the gut microbiome influences neurodevelopment and understanding the contributions of sex differences, using both environmental and genetic mouse models of autism spectrum disorders.

Publications

Neier K, Grant TE, Palmer RL, Chappell D, Hakam SM, Yasui KM, Rolston M, Settles ML, Hunter SS, **Madany A**, Ashwood P, Durbin-Johnson B, LaSalle JM, Yasui DH. “Sex disparate gut microbiome and metabolome perturbations precede disease progression in a mouse model of Rett syndrome”. *Commun Biol*. 2021 Dec 16;4(1):1408. doi: 10.1038/s42003-021-02915-3. PMID: 34916612; PMCID: PMC8677842.

Madany AM, Hughes HK, Ashwood P. “Antibiotic Treatment during Pregnancy Alters Offspring Gut Microbiota in a Sex-Dependent Manner”. *Biomedicines*. 2022 Apr 30;10(5):1042. doi: 10.3390/biomedicines10051042. PMID: 35625778; PMCID: PMC9138679.

Madany AM, Hughes HK, Ashwood P. “Prenatal Maternal Antibiotics Treatment Alters the Gut Microbiota and Immune Function of Post-Weaned Prepubescent Offspring”. *Int J Mol Sci*. 2022 Oct 25;23(21):12879. doi: 10.3390/ijms232112879. PMID: 36361666; PMCID: PMC9655507.

May
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Abdullah Muhammad Madany, Ph.D.
Postdoctoral Fellow
Paul Ashwood Lab
Medical Microbiology and
Immunology and MIND Institute
UC Davis School of Medicine

May 5, 2023
12:10 – 1 p.m.

Medical Microbiology
and Immunology
School of Medicine

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We hope to see you there!