Two curcumin extracts modify the composition of gut microbiota, tight junction protein, and neuroinflammation in rats with neuropathic pain: microbiota-gut-brain axis

Chwan-Li Shen^{1,2,3}, Moamen M. Elmassry⁴, Julianna Santos¹

¹ Pathology, ² Center of Excellence for Integrative Health, ³ Center of Excellence for Translational Neuroscience and Therapeutics, ⁵ Pharmacology and Neuroscience, ⁶ Microbiology & Infectious Disease, ⁷ Garrison Institute on Aging Texas Tech University Health Sciences Center, Lubbock, TX. ⁴ Department of Molecular Biology, Princeton University, Princeton, NJ