

STRONG CHILDREN'S RESEARCH CENTER

Summer Research Scholar

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Mentors: Jeffrey M. Purkerson, PhD, George J. Schwartz, MD

ABSTRACT

Title: Dietary Ammonium Supplementation Compromises NOS-Dependent Innate Immune Defense

Background: Acute pyelonephritis is a common kidney bacterial infection in children.

References:

1. Purkerson JM, Corley JL, Schwartz GJ. Metabolic acidosis exacerbates pyelonephritis in mice prone to vesicoureteral reflux. *Physiol Rep*. 2020 Oct;8(19):e14525. doi: 10.14814/phy2.14525. PMID: 33030238; PMCID: PMC7543054.
2. Bower, J. M., & Mulvey, M. A. (2006). Polyamine-Mediated Resistance of Uropathogenic *Escherichia coli* to Nitrosative Stress. *Journal of Bacteriology*, 188(3), 928–933. <https://doi.org/10.1128/jb.188.3.928-933.2006>
3. Bower, J. M., Gordon-Raagas, H. B., & Mulvey, M. A. (2009). Conditioning of Uropathogenic *Escherichia coli* for Enhanced Colonization of Host. *Infection and Immunity*, 77(5), 2104–2112. <https://doi.org/10.1128/iai.01200-08>