

## 2022 Publications (selected)

### Nigel Bunnett

Xie Y, Fontenot L, Estrada AC, Nelson B, Wang J, Shih DQ, Ho W, Mattai SA, Rieder F, Jensen DD, **Bunnett NW**, Koon HW. Elafin reverses intestinal fibrosis by inhibiting cathepsin S-mediated protease-activated receptor 2. *Cell Mol Gastroenterol Hepatol*. 2022 Jul 12. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9425040/>

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2. Scheff NN, Wall IM, Nicholson S, Williams H, Chen E, Tu NH, Dolan JC, Liu CZ, Janal MN, **Bunnett NW**, Schmidt BL. Oral cancer induced TRPV1 sensitization is mediated by PAR2 signaling in primary afferent neurons innervating the cancer microenvironment. *Sci Rep* 12, 4121 (2022).  
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## **Dane Jensen**

Latorre R, Hegron A, Peach CJ, Teng S, Tonello R, Retamal JS, Klein-Cloud R, Bok D, **Jensen DD**, Gottesman-Katz L, Rientjes J, Veldhuis NA, Poole DP, Schmidt BL, Pothoulakis CH, Rankin C, Xie Y, Koon HW, Bunnett NW. Mice expressing fluorescent PAR2 reveal that endocytosis mediates colonic inflammation and pain. *Proc Natl Acad Sci U S A*. 2022 Feb 8;119(6). <https://www.pnas.org/doi/full/10.1073/pnas.2112059119>

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## **May Khanna**

François-Moutal L, Dias D'andrea E, Ambrose AJ, Carlson JM, Dissanayake K, Zerio JC, May DG, Scott DD, Moutal A, Kyle J, Roux KJ, Vitali F, Rajesh Khanna, McGurk L, **Khanna M\*** "Heat shock protein A5 directly binds to TDP-43 and mitigates toxicity associated with disease." *Sci Rep*. **2022** May 17;12(1):8140. doi: 10.1038/s41598-022-12191-8. <https://www.nature.com/articles/s41598-022-12191-8>

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## Rajesh Khanna

Watanabe, Moe; Kopruszinski, Caroline; Moutal, Aubin; Ikegami, Daigo; **Khanna, Rajesh**; Chen, Yanxia; Ross, Sarah; Mackenzie, Kimberly; Stratton, Jennifer; Dodick, D; Navratilova, Edita; Porreca, Frank. Dysregulation of serum prolactin links the hypothalamus with female nociceptors to promote migraine. *Brain Brain*. 2022 Mar 24:awac104. doi: 10.1093/brain/awac104. PMID: 35325034

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## **Kara Margolis**

John W. Blackett, Yiwei Sun, Lawrence Purpura, **Kara Gross Margolis**, Mitchell S. V. Elkind, Sheila O'Byrne, Milton Wainberg, Julian A. Abrams, Harris H. Wang, Lin Chang and Daniel E. Freedberg. Decreased gut microbiome tryptophan metabolism and serotonergic signaling in persistent mental health and gastrointestinal symptoms after COVID-19. *Accepted to Clinical and Translational Gastroenterology*.

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**Kara Margolis**. Can enteric neurons control appetite? *Accepted to Gastroenterology*. Materials Engineering in Gut Microbiome and Human Health. L Yang, LY Hung, Y Zhu, S Ding, **KG Margolis**, KW Leong. Invited Review-Research (a Science Partner Journal): submitted.

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### **Brian Schmidt**

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### **Alex Thomsen**

**Thomsen ARB**, Hahn H, Bunnett NW (2022). Arrestin-Mediated Trafficking and Compartmentalized Biology of GPCRs. *Arrestins*,

### **Yi Ye**

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