

Establishment of treatment system for upper gastrointestinal disorders in 21st century based on gastric microbiota

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Research Area

1. Elucidation of the crosstalk between *H. pylori* and *Non Helicobacter pylori Helicobacter* (NHPH) species in upper gastrointestinal disorders
2. Establishment of treatment system for upper gastrointestinal disorders in 21st century

 **Solitary infection with *H. pylori*; Gastritis → Gastric Cancer • Gastric MALT lymphoma**

 **Solitary infection with NHPH; Gastritis → Gastric Cancer • Gastric MALT lymphoma**

  **Co-infection with *H. pylori* and NHPH; Gastritis alone**

Recent Activities

- Activation of nucleotide-binding oligomerization domain 2 by muramyl dipeptide negatively regulates Toll-like receptor 9-mediated colonic inflammation through the induction of deubiquitinating enzyme A expression. *Int Immunol.* 35(2):79-94, 2023
- Disruption of the intestinal barrier exacerbates experimental autoimmune pancreatitis by promoting the translocation of *Staphylococcus sciuri* into the pancreas. *Int Immunol.* 34(12):621-634, 2022.