

## 主な研究課題・発表代表論文

微生物学講座(2024～) Microbiology

ゲノム・機能分子解析学講座(～2023) Genomics and Molecular Analysis

研究領域 生体情報医科学

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### 主な研究課題

- ・細菌の宿主内適応
- ・薬剤耐性菌による感染症への対策
- ・免疫応答に関わる機能分子解析
- ・免疫反応のイメージング

### 発表代表論文

- 1) Ota K, et al. : Rapid increase in salivary IgA and broad recognition of spike protein following SARS-CoV-2 vaccination. *Virus Res.* 339:199294. 2024
- 2) Kondo T, et al. : Escherichia coli ST131 isolated from urological patients can acquire plasmid-mediated extended spectrum  $\beta$ -lactamase from other bacteria with high frequency. *Int J Urol.* 29(6):587-594. 2022
- 3) Shibata K, et al. Symbiotic bacteria-dependent expansion of MR1-reactive T cells causes autoimmunity in the absence of Bcl11b. *Nat Commun.* 13(1):6948. 2022
- 4) Kim YG, et al. Neonatal acquisition of Clostridia species protects against colonization by bacterial pathogens. *Science.* 2017 Apr 21;356(6335):315-319.
- 5) Sakamoto K, et al. : IL-22 Controls Iron-Dependent Nutritional Immunity Against Systemic Bacterial Infections. *Sci Immunol.* 2(8):eaai8371. 2017
- 6) Kamada N, et al. : Humoral Immunity in the Gut Selectively Targets Phenotypically Virulent Attaching-and-Effacing Bacteria for Intraluminal Elimination. *Cell Host Microbe.* 17(5):617-27. 2015
- 7) Rahman MA, et al. : An epistatic effect of apaf-1 and caspase-9 on chlamydial infection. *Apoptosis.*, 20 (10) : 1271-1280. 2015.
- 8) Hasegawa A, et al. : Crucial role for CD69 in the pathogenesis of dextran sulphate sodium-induced colitis. *PLOS ONE.*, 8 (6) : e65494. 2013.
- 9) Ogino H, et al. : Complete genome sequence of NBRC3288, a unique cellulose-nonproducing strain of Gluconacetobacter xylinus isolated from vinegar. *J. Bacteriol.*, 193 (24) : 6997-9. 2011.

- 10) Hasegawa A, et al. : Color-coded real-time cellular imaging of lung T-lymphocyte accumulation and focus formation in a mouse asthma model. *J. Allergy Clin. Immunol.*, 125 (2) : 461-68. 2010.