

COVID-19 研究関連 論文リスト

Neutralizing antibody / Vaccine development

- Rapid isolation and profiling of a diverse panel of human monoclonal antibodies targeting the SARS-CoV-2 spike protein.
[*Nature Medicine* volume 26, pages1422–1427\(2020\)](#)
- Integrated pipeline for the accelerated discovery of antiviral antibody therapeutics.
[*Nat Biomed Eng.* 2020 Nov;4\(11\):1030-1043.](#)
- Genetic and structural basis for SARS-CoV-2 variant neutralization by a two-antibody cocktail.
[*Nat Microbiol.* 2021 Oct;6\(10\):1233-1244.](#)
- The neutralization effect of montelukast on SARS-CoV-2 is shown by multiscale in silico simulations and combined in vitro studies.
[*Mol Ther.* 2021 Oct 19;S1525-0016\(21\)00521-9.](#)
- Cross-reactive coronavirus antibodies with diverse epitope specificities and extra-neutralization functions.
[*Cell Reports Medicine* 2, 100313, June 15, 2021](#)
- Neutralizing and protective human monoclonal antibodies recognizing the N-terminal domain of the SARS-CoV-2 spike protein.
[*Cell.* 2021 Apr 29;184\(9\):2316-2331.e15](#)
- Preclinical efficacy and safety analysis of gamma-irradiated inactivated SARS-CoV-2 vaccine candidates.
[*Sci Rep.* 2021 Mar 11;11\(1\):5804.](#)
- Gamma-irradiated SARS-CoV-2 vaccine candidate, OZG-38.61.3, confers protection from SARS-CoV-2 challenge in human ACE2-transgenic mice.
[*Sci Rep.* 2021 Aug 4;11\(1\):15799.](#)
- Passive Immunity Trial for Our Nation (PassITON): study protocol for a randomized placebo-control clinical trial evaluating COVID-19 convalescent plasma in hospitalized adults.
[*Trials.* 2021 Mar 20;22\(1\):221.](#)

Antibody recognition escape (mutation)

- Complete Mapping of Mutations to the SARS-CoV-2 Spike Receptor-Binding Domain that Escape Antibody Recognition.
[*Cell Host & Microbe* 29, 44–57 January 13, 2021](#)

Aniti-virus drug discovery

- The combination of Bromelain and Acetylcysteine (BromAc) synergistically inactivates SARS-CoV-2. [*Viruses*. 2021 Mar 6;13\(3\):425.](#)
- DNA-encoded chemistry technology yields expedient access to SARS-CoV-2 Mpro inhibitors. [*PNAS* September 7, 2021 118 \(36\) e2111172118.](#)
- Long-chain polyphosphates impair SARS-CoV-2 infection and replication. [*Sci Signal*. 2021 Jul 6;14\(690\):eabe5040.](#)
- Preliminary report of in vitro and in vivo effectiveness of dornase alfa on SARS-CoV-2 infection. [*New Microbes New Infections*. 2020 Sep; 37: 100756.](#)

NETs (Neutrophil Extracellular Traps)

- A novel cell-based assay for dynamically detecting neutrophil extracellular traps-induced lung epithelial injuries. [*Experimental Cell Research*. 2020 Sep 15;394\(2\):112101.](#)
- Bio-impedance measurement allows displaying the early stages of neutrophil extracellular traps. [*EXCLI J*. 2020; 19: 1481–1495.](#)

Neutrophil migration

- Molecular and Cellular Biomarkers of COVID-19 Prognosis: Protocol for the Prospective Cohort TARGET Study. [*JMIR Res Protoc*. 2021 Mar 4;10\(3\):e24211.](#)

Cell barrier function

- Altered high-density lipoprotein composition and functions during severe COVID-19. [*Scientific Reports* volume 11, Article number: 2291 \(2021\).](#)

SARS-CoV-2 antibody detection

- Rapid detection of SARS-CoV-2 antibodies using electrochemical impedance-based detector. [*Biosensors and Bioelectronics*. 2021 Jan 1;171:112709.](#)

Cardiotoxicity of anti COVID-19 drug

- Applying the CiPA approach to evaluate cardiac proarrhythmia risk of some antimalarials used off-label in the first wave of COVID-19. [*Clin Transl Sci*. 2021 May;14\(3\):1133-1146.](#)

Others

- Inactivation of Coronaviruses during Sample Preparation for Proteomics Experiments. [*J Proteome Res*. 2021 Sep 3;20\(9\):4598-4602.](#)



お問合せ先



本社

〒135-0014 東京都江東区石島2-14 Imas Riverside 4F
Tel. (03)6458-6696 Fax. (03)6458-6697

西日本営業所

〒532-0003 大阪市淀川区宮原5-1-3 NLC新大阪アースビル403
Tel. (06)6394-1300 Fax. (06)6394-8851

Web Site www.scrum-net.co.jp