



## Ryuichiro Abe

Postdoctoral Scholar, Emergency Medicine

### Bio

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#### BIO

Dr. Ryuichiro Abe was a clinical doctor majoring in Intensive Care Medicine and Anesthesiology. Based on the clinical experiences, he is devoted to basic research for host-bacteria interaction. His research interests focus on improving the diagnosis of bacterial infection with sepsis to treat patients more appropriately and preventing the dissemination of antimicrobial drug resistance.

#### HONORS AND AWARDS

- Kuroya Scholarship Award, The 95th Annual Meeting of Japanese Society for Bacteriology (2022)
- Osaka University Award for Exceptional Academic Excellence in the Doctor Course, Osaka University Graduate School of Medicine (2021)

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, Osaka University (2020)
- Board Certification, The Japanese Society of Intensive Care Medicine , Intensive Care Medicine (2019)
- Board Certification, Japanese Society of Anesthesiologists , Anesthesiology (2018)
- Fellowship, Osaka University Hospital , Anesthesiology and Intensive Care Medicine (2016)
- Residency, Sunagawa City Medical Center , MD (2013)
- Doctor of Medicine, Osaka University (2011)

#### STANFORD ADVISORS

- Samuel Yang, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **A Nationwide Plasmidome Surveillance in Thailand Reveals a Limited Variety of New Delhi Metallo- $\beta$ -Lactamase-Producing Carbapenem-Resistant Enterobacteriaceae Clones and Spreading Plasmids.** *Journal of clinical microbiology*  
Abe, R., Akeda, Y., Sakamoto, N., Takeuchi, D., Sugawara, Y., Yamamoto, N., Kerdsin, A., Matsumoto, Y., Motooka, D., Laolerd, W., Santanirand, P., Suzuki, M., Shibayama, et al  
2022: e0108022
- **Clonal dissemination of carbapenem-resistant *Klebsiella pneumoniae* ST16 co-producing NDM-1 and OXA-232 in Thailand.** *JAC-antimicrobial resistance*  
Abe, R., Akeda, Y., Takeuchi, D., Sakamoto, N., Sugawara, Y., Yamamoto, N., Kerdsin, A., Matsumoto, Y., Motooka, D., Leolerd, W., Santanirand, P., Suzuki, M., Shibayama, et al  
2022; 4 (4): dlac084

- **Population Analysis Profiling: Is It Still the Gold Standard for the Determination of Heteroresistance in Carbapenemase-Producing Enterobacteriaceae?** *International journal of antimicrobial agents*  
Abe, R., Akeda, Y., Iida, T., Hamada, S.  
2022; 106644
- **Diagnosis of Bloodstream Infections: An Evolution of Technologies towards Accurate and Rapid Identification and Antibiotic Susceptibility Testing.** *Antibiotics (Basel, Switzerland)*  
Tjandra, K. C., Ram-Mohan, N., Abe, R., Hashemi, M. M., Lee, J., Chin, S. M., Roshardt, M. A., Liao, J. C., Wong, P. K., Yang, S.  
2022; 11 (4)
- **[Regional dissemination of carbapenem-resistant Enterobacteriaceae accompanying with enhanced resistance in Northern Osaka, Japan].** *Nihon saikingaku zasshi. Japanese journal of bacteriology*  
Abe, R.  
2022; 77 (2): 129-138
- **Effects of Ventilatory Settings on Pendelluft Phenomenon During Mechanical Ventilation** *RESPIRATORY CARE*  
Enokidani, Y., Uchiyama, A., Yoshida, T., Abe, R., Yamashita, T., Koyama, Y., Fujino, Y.  
2021; 66 (1): 1-10
- **Enhanced Carbapenem Resistance through Multimerization of Plasmids Carrying Carbapenemase Genes.** *mBio*  
Abe, R., Akeda, Y., Sugawara, Y., Matsumoto, Y., Motooka, D., Kawahara, R., Yamamoto, N., Tomono, K., Iida, T., Hamada, S.  
2021; e0018621
- **Hospital-wide outbreaks of carbapenem-resistant Enterobacteriaceae horizontally spread through a clonal plasmid harbouring blaIMP-1 in children's hospitals in Japan.** *The Journal of antimicrobial chemotherapy*  
Abe, R., Oyama, F., Akeda, Y., Nozaki, M., Hatachi, T., Okamoto, Y., Yoshida, H., Hamaguchi, S., Tomono, K., Matsumoto, Y., Motooka, D., Iida, T., Hamada, et al  
2021
- **Characterization of the Plasmidome Encoding Carbapenemase and Mechanisms for Dissemination of Carbapenem-Resistant Enterobacteriaceae** *MSYSTEMS*  
Abe, R., Akeda, Y., Sugawara, Y., Takeuchi, D., Matsumoto, Y., Motooka, D., Yamamoto, N., Kawahara, R., Tomono, K., Fujino, Y., Hamada, S.  
2020; 5 (6)
- **Genomic characterisation of a novel plasmid carrying bla IMP-6 of carbapenem-resistant Klebsiella pneumoniae isolated in Osaka, Japan** *JOURNAL OF GLOBAL ANTIMICROBIAL RESISTANCE*  
Abe, R., Akeda, Y., Sakamoto, N., Kumwenda, G., Sugawara, Y., Yamamoto, N., Kawahara, R., Tomono, K., Fujino, Y., Hamada, S.  
2020; 21: 195-199
- **In Vitro Efficacy of Meropenem-Cefmetazole Combination Therapy against New Delhi Metallo-beta-lactamase-producing Enterobacteriaceae** *INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS*  
Hagiya, H., Sugawara, Y., Tsutsumi, Y., Akeda, Y., Yamamoto, N., Sakamoto, N., Shanmugakani, R., Abe, R., Takeuchi, D., Nishi, I., Ishii, Y., Hamada, S., Tomono, et al  
2020; 55 (3): 105905
- **Bactericidal efficacy of meropenem in combination with cefmetazole against IMP-producing carbapenem-resistant Enterobacteriaceae.** *BMC research notes*  
Abe, R. n., Hagiya, H. n., Akeda, Y. n., Yamamoto, N. n., Ishii, Y. n., Tomono, K. n.  
2019; 12 (1): 740
- **First Identification and genomic characterization of multidrug-resistant carbapenemase-producing Enterobacteriaceae clinical isolates in Malawi, Africa** *JOURNAL OF MEDICAL MICROBIOLOGY*  
Kumwenda, G. P., Sugawara, Y., Abe, R., Akeda, Y., Kasambara, W., Chizani, K., Takeuchi, D., Sakamoto, N., Tomono, K., Hamada, S.  
2019; 68 (12): 1707-1715
- **Perioperative Enteral Nutrition After Left Ventricular Assist Device Implantation** *NUTRITION AND METABOLIC INSIGHTS*  
Abe, R., Matsumoto, A., Sakaguchi, R., Toda, K., Sawa, Y., Uchiyama, A., Fujino, Y.  
2018; 11: 1178638818810393
- **Factors Related to the Severity of Early Postoperative Infection After Heart Transplantation in Patients Surviving Prolonged Mechanical Support Periods: Experience at a Single University** *JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA*

Abe, R., Shibata, S. C., Saito, S., Tsukamoto, Y., Toda, K., Uchiyama, A., Sakata, Y., Sawa, Y., Tomono, K., Fujino, Y.

2018; 32 (1): 53-59

- **Right ventricular functional assessment by three-dimensional transesophageal echocardiography is useful for withdrawal from a right ventricular assist device: a case report** *JA CLINICAL REPORTS*

Taenaka, H., Imada, T., Abe, R., Uchiyama, A., Fujino, Y.

2017; 3: 40

- **[Comparison of Aortic Valve Replacement Combined with Coronary Artery Bypass Grafting and Transcatheter Aortic Valve Implantation Combined with Off-pump Coronary Artery Bypass Grafting].** *Masui. The Japanese journal of anesthesiology*

Abe, R., Iura, A., Iritakenishi, T., Imada, T., Fujino, Y.

2017; 66 (4): 370-375