

Jun Inamo, M.D., Ph.D.

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PERSONAL STATEMENT

Computational biologist with experience in clinical medicine as a rheumatologist.

EDUCATION

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| 2021 | Keio University School of Medicine
Ph.D. in Rheumatology and Immunology <ul style="list-style-type: none"> • Thesis title: Identification of novel genes associated with dysregulation of B cells in patients with primary Sjögren's syndrome. • Advisor: Prof. Tsutomu Takeuchi. |
| 2014 | Keio University School of Medicine
M.D. in Medicine <ul style="list-style-type: none"> • Participated in undergraduate research focusing on cancer stem cells under the guidance of Prof. Hideyuki Saya. |

RESEARCH EXPERIENCE

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| Since 2022 | University of Colorado School of Medicine
Post-doctoral Research Fellow
Advisor: Dr. Fan Zhang <ul style="list-style-type: none"> • My research focuses on the pathogenesis of autoimmune diseases during the pre-clinical stage • Currently working on large-scale multi-omics datasets obtained from individuals with pre-clinical rheumatoid arthritis. This project is collaborative research with many institutions and Accelerating Medicines Partnership® Rheumatoid Arthritis and Systemic Lupus Erythematosus (AMP® RA/SLE) Program. |
| 2021-2022 | Tokyo Medical and Dental University
JSPS Postdoctoral Fellowship
Advisor: Prof. Yuta Kochi <ul style="list-style-type: none"> • Generated comprehensive full-length isoform atlas using long-read RNA sequencing datasets obtained from 29 immune cell subsets. |

- Using this atlas, we revealed 1) characteristics of new isoforms including condition-specific expression, functional domain motif, repetitive elements, etc. 2) effect of common variants on isoform expression, 3) association with immune-disordered diseases.

2017-2022 **Keio University School of Medicine**

Clinical Assistant Professor

Advisor: Prof. Tsutomu Takeuchi

- Identified dysregulated genes and co-expressed gene network using blood specimens from patients with primary Sjögren's syndrome.
- Identified dysregulated pathways according to types of auto-antibody using skin specimens from patients with systemic sclerosis
- Identified remission signature genes in CD4⁺ and CD8⁺ T cells applying a partial least-squares regression to transcriptome data of blood specimens from patients with rheumatoid arthritis.
- Collaborated with industry researchers (Takeda Pharmaceutical Company Limited) to explore drug targets for auto-immune diseases.

AWARDS

2024 – 2025	Grant-in-Aid for JSPS Overseas Research Fellows (accepted)
2023 – 2024	the Uehara Memorial Foundation Postdoctoral Fellowship
2023 – 2025	Grant-in-Aid for Early-Career Scientists, JSPS
2022	Mochida Memorial Foundation for Medical and Pharmaceutical Research
2021 – 2024	Grant-in-Aid for JSPS Fellows, JSPS
2019	Travel Award, the 19th International Vasculitis & ANCA Workshop
2017-2019	Keio University Graduate School Scholarship

TEACHING EXPERIENCE

2022	University of Colorado School of Medicine
	• Supervising projects of Ph.D. students
2018	Keio University School of Medicine
	• Teaching clinical medicine to the undergraduate medical students

MEDICAL LICENSURE

2014 Full Medical License (Japan) #467556

CLINICAL TRAINING

2017-2021 **Fellow in Rheumatology**, Keio University School of Medicine, Japan
 2016-2017 **Internal Medicine**, Kawasaki Municipal Hospital, Japan
 2014-2016 **Residency**, Yokohama Municipal Citizen's Hospital, Japan

BOARD CERTIFICATION

2023 Board Certified Trainer of the Japan College of Rheumatology
 2020 Board Certified Member of the Japan College of Rheumatology
 2017 Board Certified Member of the Japanese Society of Internal Medicine

BIBLIOGRAPHY

Conferences (Lead Author)

1. **Inamo J**, Kikuchi J, Kaneko Y, Takeuchi T. Predictive biomarker for remission achievement with abatacept in patients with seropositive rheumatoid arthritis. Poster presentation at EULAR 2019
2. **Inamo J**, Suzuki K, Takeshita M, Kassai Y, Takiguchi M, Kurisu R, Okuzono Y, Tasaki S, Takeuchi T. Identification of novel genes associated with dysregulation of B cells in patients with primary Sjögren's syndrome. Poster presentation at ACR 2019
3. **Inamo J**, Kaneko Y, Ota Y, Takeuchi T. Rheumatoid Factor Titer Is Inversely Correlated with ANCA Titer and Relates to Characteristic Manifestations in Patients with Eosinophilic Granulomatosis with Polyangiitis. Poster presentation at the 19th International Vasculitis & ANCA Workshop

Publications (selected)

1. **Inamo J**, Suzuki K, Takeshita M, Kondo Y, Okuzono Y, Koga K, Kassai Y, Takiguchi M, Kurisu R, Yoshimura A, Takeuchi T. Molecular remission at T cell level in patients with rheumatoid arthritis. *Sci Rep*. 2021;11:16691.
2. Nakazawa M, Suzuki K, Takeshita M, **Inamo J**, Kamata H, Ishii M, Oyamada Y, Oshima H, Takeuchi T. Distinct Expression of Coinhibitory Molecules on Alveolar T Cells in Patients With Rheumatoid Arthritis-Associated and Idiopathic Inflammatory Myopathy-Associated Interstitial Lung Disease. *Arthritis Rheumatol*. 2021;73:576-586.

3. **Inamo J.** Association of differentially expressed genes and autoantibody type in patients with systemic sclerosis. *Rheumatology (Oxford)*. 2021;60:929-939.
4. **Inamo J,** Suzuki K, Takeshita M, Kassai Y, Takiguchi M, Kurisu R, Okuzono Y, Tasaki S, Yoshimura A, Takeuchi T. Identification of novel genes associated with dysregulation of B cells in patients with primary Sjögren's syndrome. *Arthritis Res Ther*. 2020;22:153.
5. **Inamo J.** Non-causal association of gut microbiome on the risk of rheumatoid arthritis: a Mendelian randomization study. *Ann Rheum Dis*. 2019. DOI: 10.1136/annrheumdis-2019-216565. PMID: 31744823.

Skills Language: Japanese and English
 Computer: R, bash, and Python

References

Assistant Prof. Fan Zhang

Current Advisor

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Prof. Yuta Kochi

Advisor in Post-doctoral fellow in Japan

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Prof. Tsutomu Takeuchi

Advisor in Ph.D

President Japan College of Rheumatology

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