

Name

Chikashi TERAO

**Office Address**

Laboratory for Statistical and Translational Genetics,
RIKEN Center for Integrative Medical Sciences, Yokohama 230-0045, Japan
TEL:(+81) 45-503-9111
FAX:(+81) 45-503-9113
Email: chikashi.terao@riken.jp
cterao@u-shizuoka-ken.ac.jp

Date of Birth

26 October 1979

Degree

M.D., Ph.D.

Nationality

Japan

Education

2004 M.D. Kyoto University, Kyoto, Japan

2011 Ph.D. Kyoto University Graduate School of Medicine, Kyoto, Japan

Post Doctoral Training

2011-2014 Kyoto University Graduate School of Medicine, Kyoto, Japan (Dr. Matsuda) Brigham and

2014-2017 Women's Hospital, Harvard Medical School, Boston, MA, USA (Dr. Raychaudhuri)

Faculty Academic Appointments and Professional Positions

2011-2017 Assistant Professor, Kyoto University Graduate School of Medicine, Kyoto, Japan Senior

2017-2018 Research Scientist, Laboratory for Statistical Analysis, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan

2017- Professor, The School of Pharmaceutical Sciences, University of Shizuoka, Japan

2018-2019 Deputy team leader, Laboratory for Statistical Analysis, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan

2019- Team leader, Laboratory for Statistical and Translational Genetics, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan

Appointments at Hospitals

2004-6 Resident, Shiga Medical Center for Adults, Shiga, Japan

2006-14 Attending Physician, Department of Rheumatology and Clinical Immunology, Kyoto University Hospital, Kyoto, Japan

2008-2014 Attending Physician, Department of Rheumatology, Japanese Red Cross Wakayama Medical Center, Japan

2017- Chief in Immunology Research, Clinical Research Center, Shizuoka General Hospital, Shizuoka, Japan

Professional Certificate and activity

2007 Jul Board Certified Member of the Japanese Society of Internal Medicine

2012 Mar Japanese College of Rheumatology-board certified rheumatologist

2014 Apr Japanese College of Rheumatology Board of Councilors

2019 Apr Japanese College of Rheumatology-board certified rheumatologist instructor

2020 Mar Fellow of the Japanese Society of Internal Medicine

Other Professional Positions

2005-6 Teaching Assistant, Department of Rheumatology and Clinical Immunology, Kyoto University Hospital, Kyoto, Japan

2010-11 GCOE Associate Fellow, Department of Rheumatology and Clinical Immunology, Kyoto University Hospital, Kyoto, Japan

Teaching and mentoring

Lecture for undergraduate students 2006-2010

Lecture for graduate students 2011, 2014

Yuji Narumiya (2011-12) Undergraduate student

Kosuke Tanaka (2013-14) Undergraduate student

Tanaka et al, **J Hum Genet.** 2014 (Publication#25)

Kazuya Setoh (2014-2015) Graduate student

Setoh et al, **Nat Commun.** 2015 (Publication#45)

Shuji Akizuki (2014~) Clinical scientist KAKENHI 16K09891

Akizuki et al, **Ann Rheum Dis.** 2018

(Publication#75) Ai Yaku (2015/4~) Graduate student

2016 The Kyoto University Foundation Travel Grant

Yaku et al, **Sci Rep.** 2017 (Publication#59)

Hideaki Tsuji (2015/4~) Graduate student

2016 The Kyoto University Foundation Travel Grant

2016 EULAR Travel Award

Tsuji et al, **Sci Rep.** 2017 (Publication#65)

Tsuji et al, **Ann Rheum Dis.** 2018 (Publication#72)

Ryosuke Hiwa (2015/4~) Graduate student

2016 JCR International Workshop Award

Hiwa et al, **J Rheum.** 2017 (Publication#68)

Nobuo Kuramoto (2015/4~2017) Assistant professor

2016 JCR International Workshop Award

2016 The Kyoto University Foundation Travel Grant

Kuramoto et al, **Sci Rep.** 2017 (Publication#66)

Yuki Ishikawa (2016/8~) Postdoctoral researcher

2018 EULAR travel award

2019 JCR International Workshop Award

Ishikawa et al, **Semin Arth Rheum.** 2019 (Publication#76)

Ishikawa et al, **Ann Rheum Dis.** 2019 (Publication#84)

Ishikawa et al, **Mod Rheumatol** 2019 (Review #8)

Ishikawa et al, **Ann Rheum Dis.** 2020 (Comments/Reply #1)

Ishikawa et al, **Cells 2020** (Review #10)

Ishikawa et al, **Journal of Scleroderma and Related Disorders** (Review #11)

Hsing-Fan Lu (2018 Jul-2019 Mar) Graduate Student

Chief Ben-Eghan (2019 Jun-2019 Jul) Graduate student at McGill University

Nao Tanaka (2019 Apr~) Graduate Student

Nao Otomo (2019 May~) Graduate Student

Hiroyuki Suetsugu (2019 June~) Graduate Student Yoshinao Koike (2020 Jan~) Graduate Student

Shuji Ito (2020 Mar~) Graduate Student

Soichiro Yoshino (2020 Apr~) Graduate Student

Xiaoxi Liu (2019 Apr~2020 Mar) RIKEN International Program Associate

(2020 Apr~) Research Scientist

Reviewer for Journals

Annals of Internal Medicine

Annals of the Rheumatic Diseases

Arthritis and Rheumatology (Arthritis and Rheumatism)

Autoantibodies

BMC Medicine

BMC Medical Genetics

BMJ Case Reports

Clinical Experimental Immunology

Clinical Rheumatology

Endocrine Journal

Expert Opinion On Drug Discovery

Heart Vessels

Hematologica

Human Immunology

Human Molecular Genetics

Hypertension

Immunology Letters

International Immunology

International Journal of Infectious Diseases

International Journal of Rheumatic Diseases

Journal of the European Academy of Dermatology and Venereology

Journal of Human Genetics

Journal of Investigating Dermatology

Journal of Genetics

Journal of Rheumatology

Medicine

Modern Rheumatology

Modern Rheumatology Case Reports

Nature Reviews Rheumatology

Patterns

Pharmacogenomics Journal

PLoS ONE

Rheumatology (Oxford)

Rheumatology International

Scandinavian Journal of Immunology

Science Advances

Scientific Reports

Reviewer for grants

British Heart Association Award (British Heart Association, UK)

Honors and Awards

- 2009 GCOE Travel Award, Kyoto University
EULAR Travel Award, EULAR (European League Against Rheumatism) Congress 2009
- 2010 BD Japan Young Investigators' Travel Award, 14th International Congress of Immunology
- 2011 Kyoto University Young Investigator Step-up Grant
GCOE Travel Award, Kyoto University
EULAR Travel Award, EULAR (European League Against Rheumatism) Congress 2011
EULAR Abstract Award, EULAR (European League Against Rheumatism) Congress 2011
- 2012 GCOE Travel Award, Kyoto University
- 2013 Japan Rheumatism Foundation Travel Grant
The Kyoto University Foundation Travel Grant
The Kato Memorial Trust for Nambyo Research
Mochida Memorial Foundation for Medical and Pharmaceutical Research Japan Intractable Diseases Research Foundation
Japan Research Foundation for Clinical Pharmacology
Outstanding presenter award at the 41st Annual Meeting of the Japan Society for Critical Immunology
Nagao Takeshi NANBYO Research Foundation
- 2014 JCR 2014 International Workshop Award
APLAR 2014 travel award
Japan Rheumatism Foundation
APLAR AbbVie Best Abstract Award at the 16th Asia Pacific League of Associations for Rheumatology Congress
EULAR travel award, EULAR (European League Against Rheumatism) Congress 2014
The John Mung Advanced Program, Kyoto University
- 2015 Research Fellowship for study abroad, The Uehara Memorial Foundation
The 43rd KANAE Grant, The Kanae Foundation for the Promotion of Medical Science
- 2016 The Cardiovascular Research Fund, Tokyo, Japan
EULAR travel award, EULAR (European League Against Rheumatism) Congress 2016
APLAR 2016 travel award
Joint Usage/Research Program of Medical Research Institute Tokyo Medical and Dental University
Young Investigator Okamoto Award
- 2017 JCR (Japan College of Rheumatology) Young Investigator Award
Sakakibara Memorial Research Grant

Joint Usage/Research Program of Medical Research Institute Tokyo Medical and Dental University
JSHG (Japan Society of Human Genetics) Young Investigator Award

2018 Joint Usage/Research Program of Medical Research Institute Tokyo Medical and Dental University
Shizuoka General Hospital Research Grant
RIKEN IMS Center Director's Discretionary Budget

2019 The Young Scientists' Prize, Ministry of Education, Culture, Sports, Science and Technology, Japan
Medical Research Encouragement Prize of The Japan Medical Association

2020 RIKEN Eihou award

Honors and Awards for junior researchers during mentorship 2016

JCR International Workshop Award (to Ryosuke Hiwa)

JCR International Workshop Award (to Nobuo Kuramoto)

EULAR travel award, EULAR (European League Against Rheumatism) Congress 2016 (to Hideaki Tsuji)

The Kyoto University Foundation Travel Grant (to Ai Yaku)

The Kyoto University Foundation Travel Grant (to Nobuo Kuramoto)

The Kyoto University Foundation Travel Grant (to Hideaki Tsuji)

2018 EULAR travel award, EULAR (European League Against Rheumatism) Congress 2018 (to Yuki Ishikawa)

2019 JCR International Workshop Award (to Yuki Ishikawa)

Funding Information

2011-2012 Genetic analysis of responsiveness to tocilizumab in rheumatoid arthritis

Kyoto University Young Investigator Step-up Grant

Role: PI

Annual Direct Cost: \$13,500

The major goal of this study is to determine genetic variation associated with responsiveness to tocilizumab, humanized anti-IL-6 receptor antibody, in rheumatoid arthritis.

Completed

FY2013-FY2014 Integrative omics analysis for Takayasu arteritis

Grant-in-Aid for Young Scientists (B) from The Ministry of Education, Culture, Sports, Science and Technology

Role: PI

Annual Direct Cost: \$16,000

The major goal of this study is to detect critical gene, transcript, metabolite, protein, and pathway for the pathophysiology of Takayasu Arteritis.

Completed

- 2013-2014 Elucidation of pathophysiology of systemic sclerosis by analyzing PLD4-mutant or KO mice
The Kato Memorial Trust for Nambyo Research
Role: PI
Annual Direct Cost: \$20,000
The major goal of this study is to analyze fundamental mechanisms of systemic sclerosis by focusing on novel susceptibility gene to SSc, PLD4. We will assess immunological change in PLD4-mutant or –deficient mice.
Completed
- 2013-2014 Multi-ethnic genome-wide association study for Takayasu arteritis Mochida Memorial
Foundation for Medical and Pharmaceutical Research
Role:PI
Annual Direct Cost: \$30,000
The major goal of this study is to perform multi-ethnic genome-wide association study for Takayasu arteritis to elucidate genetic background of Takayasu arteritis. We are planning to perform GWAS using Asian and Caucasian population.
Completed
- 2013-2014 Functional analysis of susceptibility gene to Takayasu arteritis and develop novel therapy
for Takayasu arteritis
Japan Intractable Diseases Research Foundation
Role:PI
Annual Direct Cost: \$20,000
The major goal of this study is to perform which genes of the susceptibility region on chromosome 17 to Takayasu arteritis is responsible to the disease susceptibility and conduct a clinical study to apply new therapy for this intractable disease based on GWAS results.
Completed
- 2013-2015 Prospective study to prevent anti-thyroid drug-induced agranulocytosis in Graves' disease
Japan Research Foundation for Clinical Pharmacology
Role:PI
Annual Direct Cost: \$10,000
The major goal of this study is to develop algorithm to prevent anti-thyroid drug-induced agranulocytosis in Graves' disease based on genetic data and initiate a prospective study.
Completed
- 2013-2014 Identifying susceptibility genes to connective tissue disease-associated pulmonary arterial
hypertension through multi-ethnic meta-analysis of systemic sclerosis Nagao Takeshi
NANBYO Research Foundation
Role:PI
Annual Direct Cost: \$10,000
The major goal of this study is to determine susceptibility genes or variants to pulmonary

arterial hypertension in patients with connective tissue disease, especially systemic sclerosis by multi-ethnic meta-analysis of genome-wide association study.

Completed

2014-2015 Investigation of clinical importance of IL12/23 in patients with Takayasu arteritis and functional analysis of variants in IL12B.

Japan Rheumatism Foundation

Role:PI

Annual Direct Cost: \$10,000

The major goal of this study is to quantify levels of IL12 and IL23 in sera samples from patients with Takayasu arteritis to determine which cytokine plays a critical role in Takayasu arteritis and to analyze how variants in IL12B region contribute to basics in this disease.

Completed

2016-2017 Investigation of gut microbiota in patients with Takayasu arteritis The Cardiovascular Research Fund, Tokyo, Japan

Role:PI

Annual Direct Cost: \$20,000

The major goal of this study is to analyze gut microbiota in patients with Takayasu arteritis and show similarities of microbiota to patients with Inflammatory Bowel Disease especially ulcerative colitis which frequently develops with Takayasu arteritis.

Current

FY2016-2017 Development of strategy to clarify pathophysiology of rare autoimmune diseases and lead to novel treatment through genetic studies

Grant-in-Aid for Young Scientists (A) from The Ministry of Education, Culture, Sports, Science and Technology/ JSPS KAKENHI Grant Number JP16H06251

Role: PI

Annual Direct Cost: \$100,000

The major goal of this study is to clarify pathophysiology underlying rare autoimmune diseases by mainly genetic studies and to identify critical molecules and pathways of the diseases to develop novel therapeutic strategy.

FY2016-2017 Why do patients with rheumatoid arthritis rarely develop DIPsynovitis?

Grant-in-Aid for Challenging Exploratory Research from The Ministry of Education, Culture, Sports, Science and Technology/ JSPS KAKENHI Grant Number

P16K15513

Role: PI

Annual Direct Cost: \$17,000

The major goal of this study is to detect a mechanism underlying rheumatoid arthritis which determines distribution of joint synovitis in rheumatoid arthritis.

- FY2017-2018 Clarifying genetic similarities and differences between Takayasu arteritis and giant cell arteritis.
A Sakakibara Memorial Research Grant from The Japan Research Promotion Society for Cardiovascular Diseases
Role: PI
Annual Direct Cost: \$10,000
The major goal of this study is to analyze genetic characteristics of giant cell arteritis and compare genetic components between Takayasu arteritis and giant cell arteritis.
- FY2018-2018 Joint Usage/Research Program of Medical Research Institute Tokyo Medical and Dental University
Role: PI
Annual Direct Cost: \$4,000
The major goal of this study is to prioritize causal variants and functional annotations of Takayasu arteritis based on GWAS results.
- FY 2018-2018 Identifying subgroups among patients with SLE for personalized medicine
Shizuoka General Hospital Research Grant
Role: PI
Annual Direct Cost: \$5,000
The major goal of this study is to determine subgroups among SLE patients based on genetics and cellular populations in peripheral blood to provide the best treatment optimized for each patient.
- FY 2018-2018 Functional analyses for genetic variants associated with autosomal mosaic events
RIKEN IMS Center Director's Discretionary Budget
Role: PI
Annual Direct Cost: \$20,000
The major goal of this study is to determine functional impact of genetic variants found to be associated with autosomal mosaic events.
- FY 2019-2019 Elucidating Japanese-specific genetic background of systemic sclerosis
Shizuoka General Hospital Research Grant
Role: PI
Annual Direct Cost: \$5,000
The major goal of this study is to determine susceptibility among patients with systemic sclerosis based on genetics to find components specific to Japanese.
- FY2019-2020 Identification of therapeutic targets for scleroderma-related pulmonary hypertension using artificial intelligence.
Actelion research fund
Role: PI

Annual Direct Cost: \$10,000

The major goal of this study is to determine genetic determinants and therapeutic targets using deep learning algorithm based on data of gene expression levels of patients with systemic sclerosis with pulmonary hypertension.

FY2019-2020 Inference of sex differences in susceptibility to autoimmune diseases by focusing on clonal hematopoiesis

Medical Research Encouragement Prize of The Japan Medical Association

Role: PI

Annual Direct Cost: \$15,000

The major goal of this study is to determine genetic determinants and gene expression levels of patients with systemic sclerosis with pulmonary hypertension.

FY2020-2023 Elucidation for genetic regulation of enhancer expression and interpretation of genetic architecture in autoimmune diseases

Role: PI

Annual Direct Cost: \$125,000

The major goal of this study is to sensitively quantify enhancer expression levels in LCL and compare its genetic regulations across different populations to interpret genetic architecture in autoimmune diseases.

Invited Presentations

2011 Sep 15 'Identification and functional analyses of susceptibility genes to rheumatoid arthritis'
Annual Congress of The Japan Society for Clinical Immunology (Tokyo, Japan)

2013 July 2 'How much do genetic component determine rheumatoid arthritis? –disease onset and its disease phenotype'
The 34th Annual Meeting of the Japanese Society of Inflammation and Regeneration(Kyoto, Japan)

2013 Sep 28 'How much do genetic component determine rheumatoid arthritis? –disease onset and its disease phenotype'
Kyoto Rheumatoid Arthritis Network Forum (Kyoto, Japan)

2013 Nov 16 'Combination of HLA-class I and II alleles confer exponential increase in the risk for antithyroid drug-induced agranulocytosis.'
The 56th Annual Congress of The Japan Society for Thyroid Disease (Wakayama, Japan)

2014 July 17 'Disease and phenotype-related HLA alleles and amino acids'
Keiji Immunity Hematology Seminar (Kyoto Japan)

2014 Oct 30 'HLA region and HLA amino acids related to diseases and phenotypes in autoimmune diseases'
Keiji Immunity Hematology Seminar (Kyoto Japan)

2016 Sep 22 'Clarification of pathophysiology and identification of treatment target of Takayasu arteritis by genetic studies.'

Awardee Ceremony for Young Investigator Okamoto Award (Tokyo, Japan)

2017 Sep 16 'HLA-B position 9 is associated with a specific rheumatoid arthritis subset defined by non-canonical serologies'

The 16th Yotsuya Seminar for Rheumatic and connective tissue diseases (Tokyo, Japan)

2017 Oct 13 'Clarification of pathophysiology in rare autoimmune diseases through genetic approach'
JCR Basic Research Conference (Tokyo, Japan)

2017 Nov 17 'Clarification of pathophysiology in rare autoimmune diseases and development of new treatment through genetic approach'

Awardee Ceremony for JSHG (Japan Society of Human Genetics) Young Investigator Award (Kobe, Japan)

2018 Jan 18 'Clarification of the basics of rheumatoid arthritis by cohort studies and database'

The regular lecture series of Institute of Rheumatology, Tokyo Women's Medical University (Tokyo Japan)

2018 April 26 'Clarification of pathophysiology in Takayasu arteritis through genetic and epidemiological analyses'

Japanese College of Rheumatology (JCR) symposium (Tokyo Japan)

2018 Sep 1 'The Basics and application of genome-wide association study ~rheumatic diseases as an example'

Kyushu Japanese College of Rheumatology 2018 (Saga Japan)

2018 Sep 8 'A framework to conduct a genetic study in a rare disease for a novel treatment -an example of Takayasu arteritis and beyond'

20th Asia Pacific League of Associations for Rheumatology Congress (Kaohsiung Taiwan)

2018 Sep 22 'HLA analysis and clarification of pathophysiology in Takayasu arteritis'

The 27th Annual Meeting of the Japanese Society for Histocompatibility and Immunogenetics (Nagano Japan)

2019 Feb 1st 'Genetic components of onset and progression in rheumatoid arthritis'

The 9th Special Advanced Rheumatology Forum for young doctors in Ehime (Matsuyama, Japan)

2019 Mar 14 'Genetic and epidemiological studies for clarification of pathophysiology in rheumatoid arthritis -under the view point of clinicians-' ORENCIA Rising Seminar in Nihonbashi (Tokyo Japan)

2019 Apr 14 'Genetic studies and clinical application of rheumatic diseases'
Annual Course lecture, Japanese College of Rheumatology (JCR) symposium (Kyoto Japan)

2019 Apr 17 'Updates of genetic studies in rheumatoid arthritis'
Educational lecture, Japanese College of Rheumatology (JCR) symposium (Kyoto Japan)

2019 Jul 16 'Clarification of pathophysiology in Takayasu arteritis through genetic and epidemiological analyses'
The 40th Annual Meeting of the Japanese Society of Inflammation and Regeneration (Kobe Japan)

2019 Aug 16 'Pathophysiology of rheumatoid arthritis-related autoantibodies'
RA Summer Seminar in Hiroshima (Hiroshima, Japan)

2019 Aug 25 'Genetic studies and clinical application of rheumatic diseases'
JCR2019 Annual Course Lecture in TOKYO (Tokyo Japan)

2019 Sep 6 'Elucidation of Biological Mechanisms in Rare Autoimmune Diseases Through Genetic Approach'
The 8th East Asian Group Of Rheumatology 2019 EAGOR (Seoul, Korea)

2019 Oct 8 'Somatic and germ line CNV in the Biobank Japan subjects'
SPHN (The Swiss Personalized Health Network) meeting (Tokyo)

2019 Oct 12 'Development of a new treatment option to Takayasu arteritis based on genetic and epidemiological findings'
IRA (Indian Rheumatology Association) Fellows Retreat 2019 (Vellore, India)

2019 Dec 8 'Genetic studies and clinical application of rheumatic diseases'
JCR2019 Annual Course Lecture in Osaka (Osaka Japan)

2020 Jan 22 'Construction and application of database for rheumatic diseases under the viewpoint of physician scientist'
The 10th Rheumatology Education Inter League REIL (Osaka Japan)

Presentations (as a presenter only)

2007 Apr 26 ' *Aeromonas hydrophila* bacteremia after rituximab treatment in a patient with refractory systemic lupus erythematosus'
The 51st Annual General Assembly and Scientific Meeting of the Japanese College of Rheumatology (Tokyo, Japan) **Oral presentation**

2008 Apr 22 'Association between polymorphisms of TRAF1/C5 and rheumatoid arthritis in a Japanese

population'

The 52nd Annual General Assembly and Scientific Meeting of the Japanese College of Rheumatology
(Sapporo, Japan)

2008 Sep 20 'Association between HLA-DRB1 alleles and anti-CCP antibody in Japanese patients with
rheumatoid arthritis'

Hiei RA forum (Kyoto, Japan) **Oral presentation**

2009 Jun 11 'Identification of a novel genetic determinant of rheumatoid arthritis at chromosome 18q
by a genome-wide association study (GWAS) approach using large-scale Japanese cohorts'

European League Against Rheumatism (EULAR) Congress 2009 (Copenhagen, Denmark) **Oral presentation**

2009 Sep 26 'Identification of a novel genetic determinant of rheumatoid arthritis at chromosome 18q
by a genome-wide association study (GWAS) approach using large-scale Japanese cohorts'

Annual Congress of The Japan Society of Human Genetics (Tokyo, Japan) **Oral presentation**

2009 Nov 1 'Identification of a novel genetic determinant of rheumatoid arthritis at chromosome 18q
by a genome-wide association study (GWAS) approach using large-scale Japanese cohorts'

Kyoto University Global COE International symposium and retreat (Awaji, Japan) **Oral presentation**

2010 Aug 25 'A genome-wide association study identifies myelin basic protein as a susceptibility gene to
rheumatoid arthritis in a Japanese population'

14th International Congress of Immunology (Kobe, Japan)

2011 May 27 'A HAPLOTYPE OF THE HUMAN AIRE GENE IS ASSOCIATED WITH THE RISK FOR
RHEUMATOID ARTHRITIS IN JAPANESE POPULATION'

European League Against Rheumatism (EULAR) Congress 2011 (London, UK) **Oral presentation**

2011 Sep 9 'Serum IgG levels demonstrate seasonal change in connective tissue diseases: a large-scale
analysis for four years in Japanese'

Kyoto University Global COE International symposium and retreat (Awaji, Japan)

2011 Sep 15 'A Large-Scale Association Study Identified Multiple HLA-DRB1 Alleles Associated with
Anti-Citrullinated Peptide Antibody Negative Rheumatoid Arthritis in Japanese'

The 39th Annual Meeting of the Japan Society for Clinical Immunology (Tokyo, Japan)

2011 Nov 6 'A Large-Scale Association Study Identified Multiple HLA-DRB1 Alleles Associated with
Anti-Citrullinated Peptide Antibody Negative Rheumatoid Arthritis in Japanese'

Annual Congress of American College of Rheumatology (Chicago, USA)

2011 Nov 28 'Serum IgG levels demonstrate seasonal change in connective tissue diseases: a large-scale
analysis for four years in Japanese'

2011 Annual Meeting of the Japanese Society for Immunology (Chiba, Japan)

2012 Jun 9 'ACPA-NEGATIVE RHEUMATOID ARTHRITIS CONSISTS OF TWO GENETICALLY DISTINCT SUBSETS BASED ON RF POSITIVITY'

European League Against Rheumatism (EULAR) Congress 2012 (Berlin, Germany) **Selected for one of the official poster tours**

2012 Oct 25 'HLA region conferring levels of anti-nuclear antibody in a Japanese population'

The 57th Annual Meeting of the Japan Society of Human Genetics (Tokyo, Japan) **Oral presentation**

2012 Dec 6 'Three groups of joint synovitis in rheumatoid arthritis -analysis in KRAMAdatabase'

2012 Annual Meeting of the Japanese Society for Immunology (Makuhari Messe, Chiba, Japan)

2013 Apr 18 'Prevalence of anti-nuclear antibody and impacts of age and sex on the antibody levels in a Japanese population -the Nagahama study.'

The 57th Annual General Assembly and Scientific Meeting of the Japanese College of Rheumatology (Kyoto, Japan) **Oral presentation**

2013 Apr 20 'Three susceptibility amino acids to Takayasu arteritis in HLA-B protein.'

The 57th Annual General Assembly and Scientific Meeting of the Japanese College of Rheumatology (Kyoto, Japan) **Oral presentation**

2013 Jun 13 'A NATIONWIDE STUDY OF SYSTEMIC LUPUS ERYTHEMATOSUS IN JAPANESE IDENTIFIED SUBGROUPS OF PATIENTS WITH CLEAR SIGNS/CLINICAL MARKER PATTERNS AND FOUND THAT PARTICULAR SIGNS/CLINICAL MARKERS ARE ASSOCIATED WITH AGE AND/OR SEX'

European League Against Rheumatism (EULAR) Congress 2013 (Madrid, Spain)

2013 Oct 25 'Two novel susceptibility loci to Takayasu arteritis and synergistic role of the IL12B and HLA-B regions in a Japanese population.'

ASHG (American Society of Human Genetics) 2013 Annual Meeting (Boston, USA)

2013 Nov 23 'Four polymorphisms in HLA-class I and II confer exponential increase in the risk for anti-thyroid drug-induced agranulocytosis'

The 58th Annual Meeting of the Japan Society of Human Genetics (Sendai, Japan) **Oral presentation**

2013 Nov 28 'Two novel susceptibility loci to Takayasu arteritis and synergistic role of the IL12B and HLA-B regions in a Japanese population.'

The 41st Annual Meeting of the Japan Society for Clinical Immunology (Shimonoseki, Japan) **Oral presentation**

2014 Apr 4 'Heterogeneous characteristics of staining patterns among ANA'

16th Asia Pacific League of Associations for Rheumatology Congress (APLAR) (Cebu, Philippine) **Oral presentation**

2014 Apr 25 'The limited effects of smoking and shared epitope on the production of ACPA and RF in a Japanese adult population: The Nagahama Study'

The 58th Annual General Assembly and Scientific Meeting of the Japanese College of Rheumatology (Tokyo, Japan)

2014 June 12 'ANTI-CITRULLINATED PEPTIDE/PROTEIN ANTIBODY (ACPA)-NEGATIVE RA SHARES LARGE PROPORTION OF SUSCEPTIBILITY GENES WITH ACPA-POSITIVE RA.'

European League Against Rheumatism (EULAR) Congress 2014 (Paris, France)

2014 Nov 16 'Takayasu Arteritis and Ulcerative Colitis –High Concurrence Ratio and Genetic Overlap' Annual Congress of American College of Rheumatology (Boston, USA)

2014 Nov 22 'Ulcerative colitis is a major complication of Takayasu arteritis sharing genetic components especially HLA-B*52:01'

The 59th Annual Meeting of the Japan Society of Human Genetics (Tokyo, Japan) **Oral presentation**

2015 Nov 9 'Rheumatoid Factor Is Associated with the Distribution of Hand Joint Destruction in a Dose-Dependent Manner'

Annual Congress of American College of Rheumatology (San Francisco, USA)

2016 Jun 10 'FCGR2B AND MULTIPLE HLA LOCI ARE ASSOCIATED WITH SUSCEPTIBILITY TO IGG4-RELATED DISEASE.'

European League Against Rheumatism (EULAR) Congress 2016 (London, United Kingdom) **Oral presentation**

2016 Sep 28 'Genetic landscape of interactive effects of HLA-DRB1 alleles on susceptibility to rheumatoid arthritis in the Japanese population'

Asia Pacific League Against Rheumatism (APLAR) Congress 2016 (China, Shanghai) **Oral presentation**

2016 Oct 19 'Specific rheumatoid arthritis antibody subphenotypes are associated with unique HLA-DRB1 residues at position 11'

ASHG (American Society of Human Genetics) 2016 Annual Meeting (Vancouver, Canada)

2016 Nov 16 'Specific Antibody Subphenotypes in Rheumatoid Arthritis Are Associated with Unique HLA-DRB1 Residues at Position 11'

Annual Congress of American College of Rheumatology (Washington DC, USA) **Oral presentation**

2017 Feb 15 'Genome-wide association study revealed multiple associated loci with IgG4-related disease' Third International Symposium on IgG4-RD and Fibrosis (Hawaii, USA) **Oral presentation**

2017 Jun 15 'TRANS-ETHNIC META-ANALYSIS OF GENOME-WIDE ASSOCIATION STUDIES IDENTIFIES GSDMA AND PRDM1 AS SUSCEPTIBILITY GENES TO SYSTEMIC SCLEROSIS.'
European League Against Rheumatism (EULAR) Congress 2017 (Madrid, Spain) **Selected for one of the official poster tours**

2018 Oct 12 'Genetic landscape in mosaic events and their associations of hematopoietic malignancy and survival.' Japanese Society of Human Genetics Congress 2018 (Yokohama, Japan) **Oral presentation**

2018 Oct 17 'Mosaic events in 181,022 Japanese individuals provide novel molecular insights into clonal hematopoiesis and hematopoietic malignancy' ASHG (American Society of Human Genetics) 2018 Annual Meeting (San Diego, USA) **Selected editor's choice**

2018 Nov 9 'Identification of somatic mosaic events and their clinical significance in the Japanese population' The Japanese Society of Clinical Immunology Congress 2018 (Nagano, Japan) **Oral presentation**

Patent

USE OF MYELIN BASIC PROTEIN AS A NOVEL GENETIC FACTOR FOR RHEUMATOID ARTHRITIS
WO Patent 2,012,144,512