**DESCRIPTION**

Human *Immunology* publishes full-length, original, hypothesis-driven basic and clinical research articles as well as brief communications, reviews and editorials covering immunogenetics, transplantation immunology, autoimmunity, and immunity to infectious diseases in humans. It also publishes short population reports, which are tied to the allelefrequencies.net database, describing allele frequencies of HLA and KIR.

The journal’s scope includes understanding the genetic and functional mechanisms that distinguish human individuals in their immune responses to allografts, pregnancy, infections or vaccines as well as the immune responses that lead to autoimmunity, allergy or drug hypersensitivity. It also includes examining the distribution of the genes controlling these responses in populations.

Research areas include:

- Studies of the genetics, genomics, polymorphism, evolution, and population distribution of immune-related genes
- Studies of the expression, structure and function of the products of immune-related genes
- Immunogenetics of susceptibility to infectious and autoimmune disease, and allergy
- The role of the immune-related genes in hematopoietic stem cell, solid organ, and vascularized composite allograft transplant
- Histocompatibility studies including alloantibodies, epitope definition, and T cell alloreactivity
- Studies of immunologic tolerance and pregnancy
- T cell, B cell, NK and regulatory cell functions, particularly related to subjects within the journal's scope
- Pharmacogenomics and vaccine development in the context of immune-related genes

*Human Immunology* considers immune-related genes to include those encoding classical and non-classical HLA, KIR, MIC, minor histocompatibility antigens (mHAg), immunoglobulins, TCR, BCR, proteins involved in antigen processing and presentation, complement, Fc receptors, chemokines and cytokines. Other immune-related genes may be considered.
Human Immunology is also interested in bioinformatics of immune-related genes and organizational topics impacting laboratory processes, organ allocation, clinical strategies, and registries related to autoimmunity and transplantation.

Original papers with new data will be given preference over uninvited reviews and meta-analyses.

As the flagship scientific publication of the American Society for Histocompatibility and Immunogenetics (ASHI), Human Immunology is primarily directed to readers with an interest in histocompatibility, immunogenetics, transplantation, anthropology/population studies, HLA disease association and pharmacogenomics. These include basic and clinical scientists as well as histocompatibility laboratory professionals.

AUDIENCE

Immunologists, Geneticists, Pathologists, Biochemists, Histocompatibility Technologists.

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INTRODUCTION

*Human Immunology* publishes full-length, original, hypothesis-driven basic and clinical research articles as well as brief communications, reviews and editorials covering immunogenetics, transplantation immunology, autoimmunity, and immunity to infectious diseases in humans. It publishes short population reports, which are linked to the [allelefrequencies.net](http://www.allelefrequencies.net) database, describing the allele and haplotype frequencies of HLA and KIR.

A complete description of the journal's aims, scope and research areas can be found on the [home page](http://www.elsevier.com/locate/humimm).

**TYPES OF PAPERS**

**Research papers**
A full-length report of original, hypothesis-driven basic or clinical research, with new data, investigated using the scientific method, may be submitted as a research paper.
Limit- 4000 words excluding references, tables, and figures
Abstract- 200 words maximum
References- up to 75

**Brief communications**
A short report of a distinct novel observation arising from hypothesis-driven basic or clinical research, investigated using the scientific method, may be submitted as a brief communication.
Limit- 2500 words
Abstract- 150 words maximum
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Research papers and brief communications should include the following sections: Title Page (including an abbreviated title of not more than 45 characters and spaces) Abstract (number of words specified above) Keywords (up to 5) Abbreviations (list of abbreviations used) Introduction Materials and Methods Results Discussion Acknowledgements References Tables, Figure Legends, and Figures.

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Review articles should focus on areas in which there has been recent significant progress by a number of laboratories and investigators. No previously unpublished results should be included. Invited review articles will get priority over uninvited submissions.
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**Short Population Reports**
Structured descriptions of reference populations, populations of anthropological interest, and control populations for disease studies, with associated genetic data and minimal analysis, can be published in *Human Immunology* as peer-reviewed Short Population Reports.

*Human Immunology* has partnered with the Allele Frequencies Net Database (AFND) to archive and make publicly accessible the primary genotype, allele frequency and haplotype frequency data for the HLA and KIR genes from these population studies, along with demographic data for each population.

Data **MUST** be submitted to AFND prior to submitting a Short Population Report to *Human Immunology*.

THE FOLLOWING INSTRUCTIONS FOR SUBMITTING SHORT POPULATION REPORTS MUST BE ADHERED TO EXACTLY. MANUSCRIPTS NOT COMPLYING WITH ALL THE INSTRUCTIONS WILL BE REJECTED.

Following checking and ratification of the data by AFND, authors will be informed that they may now submit the Short Population Report to Human Immunology.

The title of a Short Population Report should include the name of the population and its geographic region of origin in no more than 150 characters.

The body of a Short Population Report should include the following in no more than 1000 words:
- A description of the geographic origin of the population, indicating the general region where the samples were collected, and the region to which the population is indigenous if these locations differ
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- A summary of any relevant cultural or ethnographic information for the population (e.g., ethnic distinctions, marriage patterns, caste structures).
- A description of the methods employed in obtaining samples, including: the rationale for collecting the population sample, the rationale for selecting the sites from which the samples were obtained, information regarding the degree of relatedness among individuals, and information regarding the degree of relatedness among individuals, and information on whether or not data was collected in a disease study.

A summary of the typing methods used to generate the genotype data for this population, including:
- a full description of the method and rationale used to resolve allele and genotype ambiguity, or a statement in the text of the manuscript that no ambiguities resulted from the genotyping methods applied. Authors should be aware that all current genotyping methods, other than complete phased 5' UTR to 3' UTR sequencing, result in genotyping ambiguities. (in cases of typing ambiguity) a table identifying the ambiguities that were reduced, and the alleles or genotypes to which they were reduced
- Up to 10 citations of previous genetic studies on the population, for both immunogenetic and non-immunogenetic markers.
- The following three types of analyses of the genotype data: tests of deviation from Hardy-Weinberg expectations, calculation of allele frequencies, and when multi-locus data are presented, estimation of haplotype frequencies (or calculation of haplotype frequencies if phase is known). Allele and haplotype frequency tables should be included as supplemental data. Numbers of individual alleles should be calculated via direct counting, and not via statistical estimation.

The data and the name of the population in the Short Population Report MUST be identical to the data and population name on AFND. Any data not identical will be rejected. The accession number allocated by AFND must be included in the Short Population Report.

The AFND must be referenced as follows:


Authors are encouraged to submit reports that describe all commonly typed loci of a specific gene family (e.g. all commonly typed HLA genes, or all commonly typed KIR genes) for a population in a single report. Multiple short populations reports which add only incremental information for the same population will not be accepted. New short population report manuscript submissions should describe a population or gene family that the author(s) has not described before.

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Papers should be divided into clearly defined, labeled and numbered sections.

Writing should be clear and concise. English should be easily understandable with proper grammar and spelling.

All submissions should include a cover letter including the following:A statement that the manuscript is being submitted to Human Immunology. Those aspects of the journal’s aims and scope to which the manuscript pertains. That the manuscript has not been published and is not currently under consideration by any other journal. That all authors have contributed to the submitted work, and approve the manuscript and its submission to the journal. That any novel HLA sequences have already been checked and named at IPD-IMGT/HLA.

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