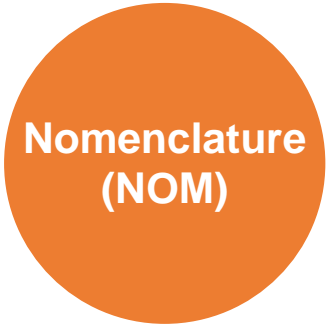


IUIS

# Nomenclature





## Nomenclature (NOM)

Chair: Menno C. van Zelm  
Vice-chair: Cathrine Scheepers

The mission of the different IUIS Nomenclature subcommittees is to establish a universal and consistent nomenclature for both molecules and cells of the immune system.

The IUIS subcommittees have continued to establish the nomenclature of different molecules of the immune system and updating their databases and webpages.

Especially useful in driving these activities has been the Frontiers research topic:  
**Nomenclature: Avoiding Babylonian Speech Confusion in Present Day Immunology**

With contributions from 7/10 subcommittees:

**Allergen, B-cell, CD Molecule, Complement, Cytokine, IG TR and MH, Monocytes and Dendritic Cells in Blood**

# Current IUIS Nomenclature Subcommittees and chairs

**Allergen Nomenclature.** Chair: Rick Goodman (USA)

(web page: [www.allergen.org](http://www.allergen.org))



**CD Nomenclature.** Chair: Pablo Engel (Spain)

(web page: [www.hcdm.org](http://www.hcdm.org))



**IG, TR and MH Nomenclature.** Chair: Marie-Paule Lefranc (France)

(web page: [www.imgt.org](http://www.imgt.org))



**Monocytes and Dendritic Cells in Blood.** Chair: Loems Ziegler-Heitbrock (Germany)



**KIR Nomenclature.** Chair: Steven Marsh (UK)

(web page: [www.ebi.ac.uk/ipd/kir](http://www.ebi.ac.uk/ipd/kir))



**Complement.** Chair: Claudia Kemper (USA)

(web page: [www.complement.org](http://www.complement.org))



**B cells and plasma cells.** Chair: Ignacio Sanz (USA)



**Cytokines, chemokines and their receptors** Chair: *tbd*

**Innate lymphocytes** Chair: Marco Colonna (USA)



**MALT Nomenclature.** Chair: Ana Caetano (Brazil)



# NOM 2021 Activities



## Frontiers Research Topic 2019-2020

- 12 papers + commentary
- Contributions include those from 7 sub-cies (Allergen, CD, B-cell, complement, cytokine, DC/mono, IG\_TR\_MH)
- 83,523 views



Research Topic

## Nomenclature: Avoiding Babylonian Speech Confusion in Present Day Immunology

### CD nomenclature:

- 11<sup>th</sup> HLDA workshop experiments ongoing – 112 mAbs, potentially 22 new CD markers
- CD Maps 2 studies ongoing – revisiting expression of CD1-CD372



### Allergen nomenclature

- >1048 defined allergens
- Extensive website (Allergen.org)
- Updates to nomenclature



### IG\_TR\_MH nomenclature

- Updated guidelines new genes/alleles
- Reports and NOM updates placed on new IUIS website



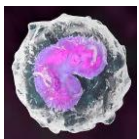
### Complement Nomenclature

- Nomenclature update approved



### Monocyte/DC Nomenclature

- Advances through single-cell RNAseq
- Need to define subsets vs cell states, and monocyte vs DC subsets



### Revival of subcommittees:

- Cytokine/chemokine
- MALT – chair: Ana Caetano

## Selection of Publications: 2020-2021 Nomenclature and position papers

### Frontiers collection - editorial

1. van Zelm MC, Ziegler-Heitbrock L, Collins AM, Chan SK, Engel P. Editorial: Nomenclature - Avoiding Babylonian Speech Confusion in Present Day Immunology. *Front Immunol.* 2020 Dec 14;11:621100.

### Allergen

2. Sudharson S, Kalic T, Hafner C, Breiteneder H. 2021. Newly defined allergens in the WHO/IUIS Allergen Nomenclature Database during 01/2019-03/2021. *Allergy*. [Epub].
3. Platts-Mills TA *et al.* 2021. Carbohydrate epitopes currently recognized as targets for IgE antibodies. *Allergy*. 76(8):2383-2394.
4. Goodman RE *et al.* 2020. The Allergen: Sources, Extracts, and Molecules for Diagnosis of Allergic Disease. *JACI IP*

### CD

5. Kalina T, Lundsten K, Engel P. 2020. Relevance of Antibody Validation for Flow Cytometry. *Cytometry A*. 97(2):126.

### IG\_TR\_MH

6. Trück J *et al.* AIRR Community 2021. Biological controls for standardization and interpretation of adaptive immune receptor repertoire profiling. *Elife*. e66274.
7. Magadan S *et al.* 2021 Genomic analysis of a second rainbow trout line (Arlee) leads to an extended description of the IGH VDJ gene repertoire. *Dev Comp Immunol.* 118:103998

### Monocytes/DC

8. Heger *et al.* 2020 Subsets of CD1c+ DCs: Dendritic Cell Versus Monocyte Lineage *Front Immunol.*

## NOM 2021 & 2022 Budgets



### Allocated amount for 2021:

Committee: \$10,000

Travel: \$6,000

### Year 2021 Budget spent: \$9,000

\$4,000 for Allergen Nomenclature

\$5,000 for CD molecule Nomenclature

### Year 2022 committee budget request:

- Carry forward from 2021: \$7,000
- New for 2022 \$10,000

### Year 2022 committee budget items:

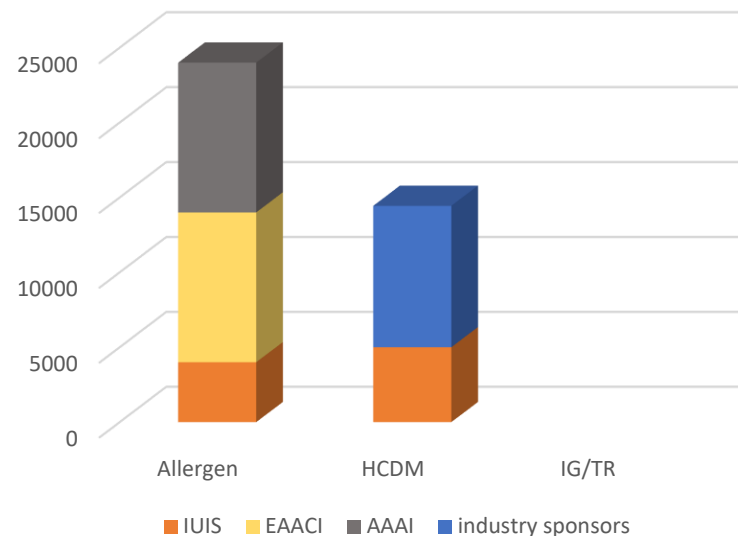
\$4,000 for Allergen Nomenclature Subcie

\$5,000 for CD molecule Nomenclature

\$2,000 for DC/mono Nomenclature – \$1000 carried forward from 2021

\$6,000 for NOM cie meeting at IUIS meeting – carried forward from 2021

NOM 2021 Committee Funding



\* Excluding in kind reagents provided by multiple companies for HLDA11/CD Maps 2

# NOM Opportunities and Challenges



## Support and boost the work and visibility of the existing IUIS NOM subcommittees

- Frontiers Research topic → engagement and exposure
- IUIS website

## Change in complement Nomenclature

- closer collaboration Int'l Complement Society (ICS) and IUIS NOM

## Lack of in-real life meetings in 2020-2021

- Momentum in many subcommittees has slowed down
- Need for face-to-face meeting of NOM chair and subcommittee chairs in 2022

## Change of NOM leadership in 2022

- Dr Scheepers stepped down as vice-chair Sept 2021
- A/Prof van Zelm will step down in 2022 after 2 full terms

## Progress made in IG/TR/MH nomenclature of new genes/alleles

- drive towards terms-of-reference and fixed term leadership positions.