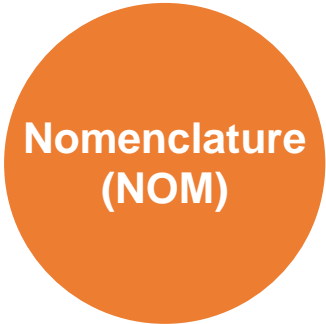


IUIS

Nomenclature





Nomenclature (NOM)

Chair: Menno C. van Zelm (2016-2022)

Incoming co-chairs: Jamie Scott and Rick Goodman

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: Christian Radauer (Austria)
(web page: www.allergen.org)



CD Nomenclature. Chair: Menno van Zelm (Australia)
(web page: www.hcdm.org) vice-chair: Tomas Kalina (Czech)



IG, TR and MH Nomenclature. Co-chairs: Felix Breden (USA)
(web page: www.imgt.org) John Hammond (UK)



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)



Complement. Chair: Claudia Kemper (USA)
(web page: www.complement.org)

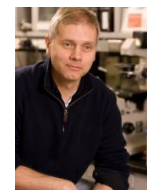


B cells and plasma cells. Chair: Ignacio Sanz (USA)



Cytokines, chemokines and their receptors Chair: *tbd*

Innate lymphocytes Chair: Marco Colonna (USA)



MALT Nomenclature. Chair: Ana Caetano (Brazil)



NOM 2022 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)
- **>150,000 views**



Research Topic

Nomenclature: Avoiding Babylonian Speech Confusion in Present Day Immunology

CD nomenclature:

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



Allergen nomenclature

- >1093 defined allergens
- Extensive website (Allergen.org)
- Updates to nomenclature



IG_TR_MH nomenclature

- New Terms-of-reference
- Revised Nomenclature review committee



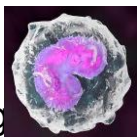
Complement Nomenclature

- Nomenclature update approved



Monocyte/DC Nomenclature

- Monocytomics Research web page, listing relevant publications on monocyte subsets (<https://www.monocytomics-research.eu/>).



Revival of subcommittees:

- Cytokine/chemokine
- MALT – chair: Ana Caetano

Selection of Publications: 2021-2022 Nomenclature and position papers

Allergen

1. 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*. 76(11):3359-3373.
2. Platts-Mills TA *et al.* 2021. Carbohydrate epitopes currently recognized as targets for IgE antibodies. *Allergy*. 76(8):2383-2394.
3. Amnuaycheewa P, [...], Goodman RE. 2022. Development of a Sequence Searchable Database of Celiac Disease-Associated Peptides and Proteins for Risk Assessment of Novel Food Proteins. *Front Allergy*. 3:900573.

CD

4. Kužílková D, [...], Engel P, van Zelm MC, Kalina T. Standardization of Workflow and Flow Cytometry Panels for Quantitative Expression Profiling of Surface Antigens on Blood Leukocyte Subsets: An HCDM CDMaps Initiative. *Front Immunol*. 2022 13:827898

IG_TR_MH

5. Collins AM, Watson CT, Breden F. 2022. Immunoglobulin genes, reproductive isolation and vertebrate speciation. *Immunol Cell Biol*. 100(7):497-506.
6. Jackson KJL, [...], Watson CT, Collins AM. 2022 A BALB/c IGHV Reference Set, Defined by Haplotype Analysis of Long-Read VDJ-C Sequences From F1 (BALB/c x C57BL/6) Mice. *Front Immunol*. 13:888555.

ILC

8. Peng V, Jaeger N, Colonna M. 2022. Innate Lymphoid Cells and Inflammatory Bowel Disease. *Adv Exp Med Biol*. 1365:97-112.

NOM 2022 & 2023 Budgets



Allocated amount for 2022:

Committee: \$10,000

Travel: \$6,000

Year 2022 Budget spent: \$10,000

\$4,000 for Allergen Nomenclature

\$5,000 for CD molecule Nomenclature

\$1,000 for Mono_DC Nomenclature

Year 2023 committee budget request:

- Carry forward from 2021/22: \$7,000
- New for 2023 \$10,000

Year 2023 committee budget items:

\$5,000 for Allergen Nomenclature Subcie

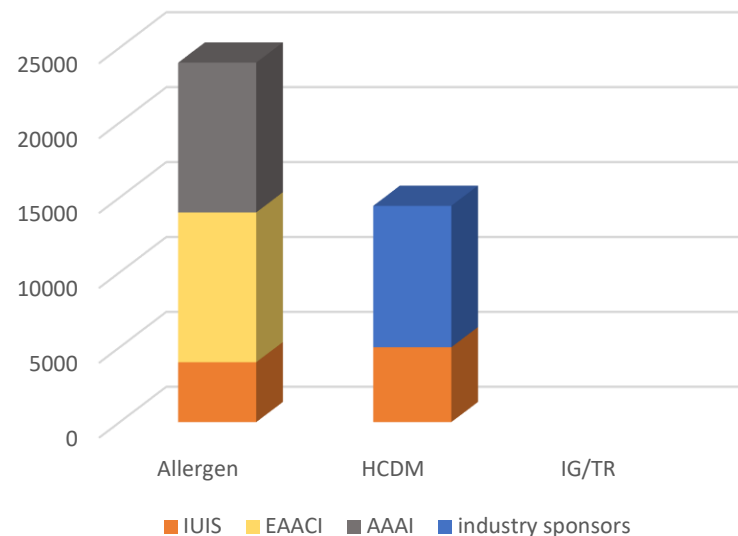
\$5,000 for CD molecule Nomenclature

\$7,000 for travel NOM cie members to IUIS meeting – carried forward from 2021/22

KIT support for (virtual) meetings:

- NOM cie (1x virtual; 1x at IUIS Cape Town)
- 2x virtual Mono-DC NOM subcie meetings

NOM 2022 Committee Funding



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

NOM Opportunities and Challenges



Lack of in-real-life meetings in 2020-2021-2022

- Virtual meetings kept momentum going to some extent
- Need for face-to-face meeting of NOM co-chairs and subcie chairs in 2023

Change of NOM leadership in 2022

- Prof van Zelm to step down in 2022 after 2 full terms
- Profs Jamie Scott and Rick Goodman incoming co-chairs
- The subcommittee chairs are members of NOM
- Terms-of-reference are developed and implemented

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

- newly implemented terms-of-reference and new co-chairs

NOM cie members agreed to developing terms of reference for their subcies

NOM will consider developing general guidelines for nomenclature