

IUIS

Nomenclature



NOM Goals & Objectives



Nomenclature (NOM)

Chair: Menno C. van Zelm

Past chair: Pablo Engel

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)



CD Nomenclature. Chair: Pablo Engel (Spain)

(web page: www.hcdm.org)



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

(web page: www.imgt.org)



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

KIR Nomenclature. Chair: Steve Marsh (UK)

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



Complement. Chair: Andrea Tenner (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 2018-2019 Activities



Revival of subcommittees:

- Cytokine/chemokine
- MALT – chair: Ana Caetano

Frontiers Research Topic 2019

- 11 manuscripts submitted
- Contributions include those from 7 sub-cies (Allergen, CD, B-cell, complement, cytokine, DC/mono, IG_TR_MH)

CD nomenclature:

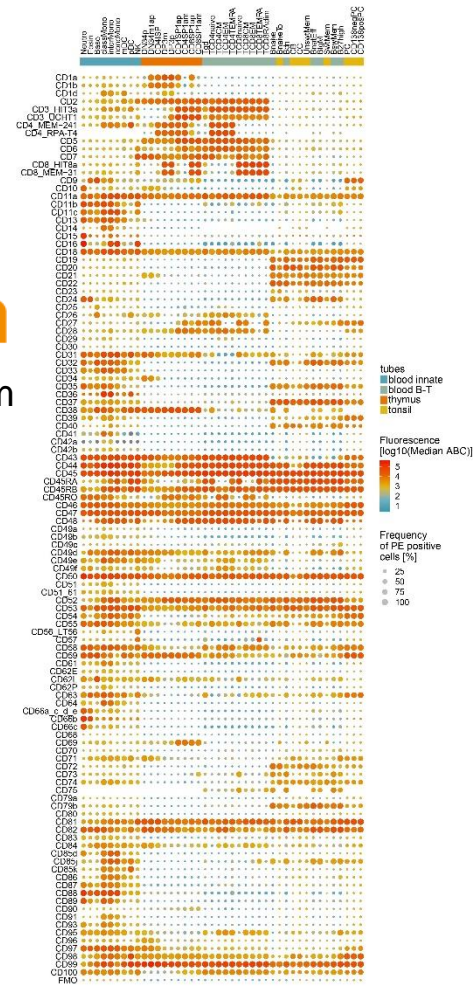
- Online web resource with CD1-CD100 expression on 44 leukocyte subsets from
- Organization for 11th HLDA workshop (CD Nomenclature) and meeting in 2021

Allergen nomenclature

- 23 new allergens named in 2018-2019 to date

Research Topic

Nomenclature: Avoiding Babylonian Speech Confusion in Present Day Immunology



Selection of Publications: 2018-2019 Nomenclature and position papers

Frontiers collection

1. Bohlson SS *et al.* 2019. Complement Nomenclature-Deconvoluted. *Front Immunol.* 10:1308.
2. Carlos Del Fresno¹ C, Cueto, F.J., Sancho D. 2019. A proposal for nomenclature in myeloid C-type lectin receptors. *Front. Immunol.*
3. Lefranc M-P, Lefranc G. IMGT® and 30 years of immunoinformatics *Antibodies* 2019, 8, 29. Ohlin M. *et al.* 2019.
4. Ohlin M *et al.* 2019. Inferred allelic variants of immunoglobulin receptor genes: a system for their evaluation, documentation, and naming. *Front Immunol.*
5. Chan S, *et al.* Keeping allergen names clear and defined. *Frontiers in Immunology*, *under review*
6. Kalina T *et al.* CD Maps – dynamic profiling of CD1 to CD100 surface expression on human leukocyte and lymphocyte subsets. *Front. Immunol.* *Under review*

Allergen

6. Pomes A *et al.*, 2018. WHO/IUIS Allergen Nomenclature: Providing a common language. *Mol Immunol* 100:3-13.
7. Goodman RE and Breiteneder H. 2019. The WHO/IUIS Nomenclature. *Allergy* 74(3):429-435.
8. Kleine-Tebbe J, *et al.* 2019. Cockroach allergens: Coping with challenging complexity. *JACI* 143(4):1342-1344.
9. Radauer C and Breiteneder H. 2019. Allergen databases-a critical evaluation. *Allergy* (e-pub).

IG_TR_MH

10. Mondot S, *et al.* 2019. The T cell receptor (TRA) locus in the rabbit (*Oryctolagus cuniculus*) *Eur J Immunol.* [Epub]
11. Xochelli A *et al.* 2019. Disease-biased and shared characteristics of the immunoglobulin gene repertoires in marginal zone B cell lymphoproliferations. *J Pathol.* 247(4):416-421

ILC

12. Vivier E *et al.* Innate Lymphoid Cells: 10 Years On. *Cell.* 174(5):1054-1066

NOM 2019 & 2020 Budgets



Allocated amount for 2019: \$8000

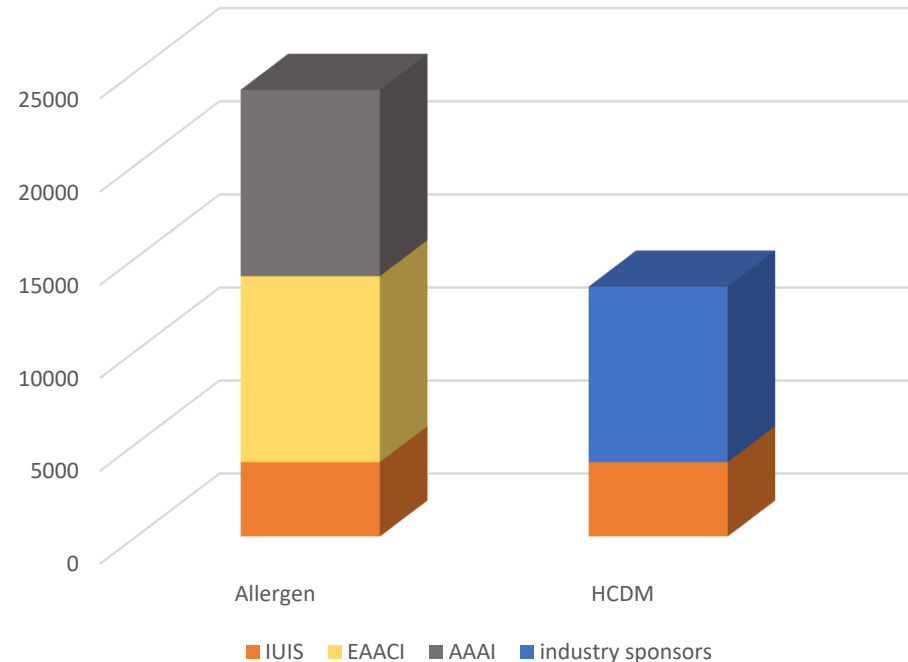
Year 2019 Budget request*: €14,800 (\$18,000)

- €4,000 for Allergen Nomenclature
- €4,000 for CD molecule Nomenclature
- €6,000 for Frontiers publication costs
- € 800 for Mono-DC

Year 2020 Budget request*: \$10,000

- \$4,000 for Allergen Nomenclature Subcie
- \$5,000 for CD molecule Nomenclature
- \$1,000 for DC/mono Nomenclature

NOM Committee 2019 Funding



*excluding travel funds of ~€ 5,000 per year

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
- WHO – IUIS linkage

Many NOM subcommittees

- Reinvigorate with new chairs
- Define aims and intensity of activities per subcommittee
- Organise annual meetings of NOM chair and subcommittee chairs
- Need for NOM co-chair
- Link subcommittees with societies (e.g. Cytokine, mucosal immunology, etc.)