

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 active have been the subcommittees of **Allergen Nomenclature, IG TR and MH Nomenclature, and CD Molecule Nomenclature.**

To some extent, progress has been made in the subcommittees of **B cells and plasma cells and 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)



Atypical chemokine receptors Chair: [vacant]

Innate lymphocytes Chair: Marco Colonna (USA)



MALT Nomenclature. Chair: Per Brandtzaeg (Norway)



NOM 2017 Activities



Established dialogue between IG/TR/MH subcommittee and AIRR Community/The antibody society to advance IG nomenclature

Established draft nomenclature human B cell subsets

Re-tested CD1-CD100 expression on human leukocyte and lymphocyte subsets (CDMaps)

Scheduled Monocyte and DC Nomenclature Workshop in 2019

Organisation for HLDA workshop XI (CD Nomenclature) in 2019/2020

Selection of Publications (2016-2017) Nomenclature and position papers

-Goodman RE, Ebisawa M, Ferreira F, Sampson HA, van Ree R, Vieths S, Baumert JL, Bohle B, Lalithambika S, Wise J, Taylor SL.

AllergenOnline: A peer-reviewed, curated allergen database to assess novel food proteins for potential cross-reactivity. *Mol Nutr Food Res.* 2016 May;60(5):1183-98

-Clark G, Stockinger H, Balderas R, van Zelm MC, Zola H, Hart D, Engel P. Nomenclature of CD molecules from the Tenth Human Leucocyte Differentiation Antigen Workshop. *Clin Transl Immunology.* 2016 Jan 22;5(1):e57.

-Clark GJ, Kupresanin F, Fromm PD, Ju X, Muusers L, Silveira PA, Elgundi Z, Gasiorowski RE, Papadimitriou MS, Bryant C, Lee KM, Clarke CJ, Young JW, Chan A, Harman A, Botting R, Cabezon R, Benitez-Ribas D, Brooks AE, Dunbar PR, Hart DN. New insights into the phenotype of human dendritic cell populations. *Clin Transl Immunology.* 2016 Jan 29;5(1):e

- Giudicelli V, Duroux P, Kossida S, Lefranc MP. IG and TR single chain fragment variable (scFv) sequence analysis: a new advanced functionality of IMGT/V-QUEST and IMGT/HighV-QUEST. *BMC Immunol.* 2017 Jun 26;18(1):35.

- F Rubelt, CE Busse, SAC Bukhari, JP Bürckert, E Mariotti-Ferrandiz, LG Cowell, CT Watson, N Marthandan, WJ Faison, U Hershberg, U Laserson, BD Corrie, MM Davis, B Peters, MP Lefranc, JK Scott, F Breden, The AIRR Community, ET Luning Prak, SH Kleinstein. Adaptive Immune Receptor Repertoire Community recommendations for sharing immune-repertoire sequencing data. *Nat Immunol.* 2017

-van Zelm MC, Engel P, Appendix A: CD Molecules, *in Middleton's Allergy, 9th Edition, in press*

NOM 2017 & 2018 Budgets



Allocated amount for 2016: \$8,000 or €7,085

\$4,000 for Allergen Nomenclature
€3,000 for CD molecule Nomenclature

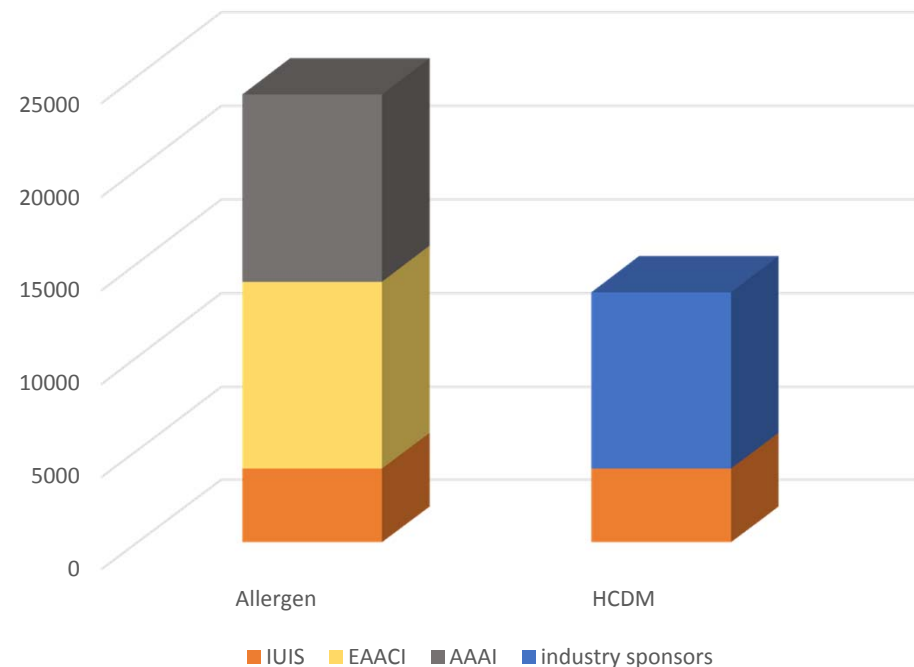
Year 2017 Budget request: € 8,000

€1,000 travel and meeting funds
€4,000 for Allergen Nomenclature
€3,000 for CD molecule Nomenclature

Year 2018 Budget request: €9,500

€1,500 travel and meeting funds
€4,000 for Allergen Nomenclature Subcommittee
€4,000 for CD molecule Nomenclature

NOM Committee 2016 Funding



NOM Opportunities and Challenges



Support and boost the work and visibility of the existing IUIS Nomenclature subcommittees

- IUIS website
- WHO – IUIS linkage

Current structure has multiple committees and some (eg. NOM) have many subcommittees

- Very difficult to manage, esp subcommittees that are not affiliated with societies
- Limited involvement of some subcommittees
(Time consuming with little compensation)

Boost/restructure activities by creating working groups/‘Initiatives’

- Activities shared between IUIS committees in collaboration with society/ies
- e.g. ‘B-cells and antibodies’
 - Nomenclature (**NOM**) of cells, genes, antibodies
 - Standardization (**QAS**) of antibody reagents
 - Immunotherapy (**ITH**) with Mabs and CAR T cells
 - The antibody society (tAbs), WHO, FOCIS, ...