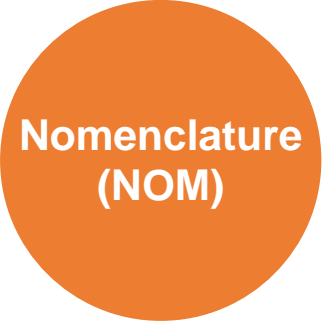


IUIS

# Nomenclature





## Nomenclature (NOM)

*“In life and science, names are essential communication tools within a community and among communities”* Alberto Mantovani

Nat. Immunology March 2016

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.**

New subcommittees have been also created for the nomenclature of cells and cellular subsets.

# 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: Steve Marsh (UK)

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



Complement. Chair: Andrea Tenner (USA)

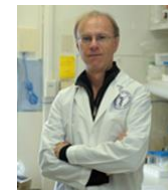
(web page: [www.complement.org](http://www.complement.org))



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



Atypical chemokine receptors Chair Phil Murphy (USA)



Innate lymphocytes Chair: Marco Colonna (USA)



MALT Nomenclature. Chair: Per Brandtzaeg (Norway)



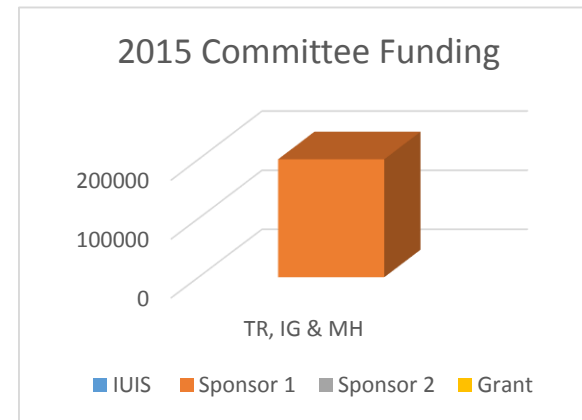
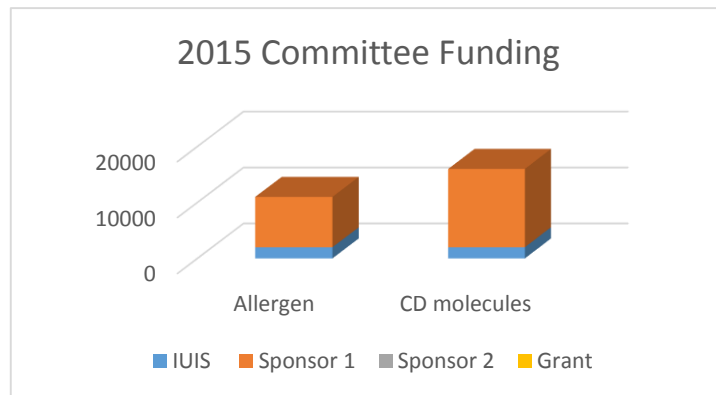
## Selection of Publications (2015-2016) Nomenclature and position papers

- Lefranc MP, Giudicelli V, Duroux P, Jabado-Michaloud J, Folch G, Aouinti S, Carillon E, Duvergey H, Houles A, Paysan-Lafosse T, Hadi-Saljoqi S, Sasorith S, Lefranc G, Kossida S. IMGT<sup>®</sup>, the international ImMunoGeneTics information system<sup>®</sup> 25 years on. *Nucleic Acids Res.* 2015; 43(Database issue):D413-22.
- Robinson J, Halliwell JA, Hayhurst JD, Flicek P, Parham P, Marsh SG. The IPD and IMGT/HLA database: allele variant databases. *Nucleic Acids Res.* 2015;43(Database issue):D423-31.
- Aouinti S, Malouche D, Giudicelli V, Kossida S, Lefranc MP. IMGT/HighV-QUEST Statistical Significance of IMGT Clonotype (AA) Diversity per Gene for Standardized Comparisons of Next Generation Sequencing Immunoprofiles of Immunoglobulins and T Cell Receptors. *PLoS One.* 2015 Nov 5;10(11):e0142353.
- Lefranc M-P. Antibody Informatics: IMGT, the International ImMunoGeneTics Information System, In: Crowe J, Boraschi D, Rappuoli R (Eds) *Antibodies for Infectious Diseases.* ASM Press, Washington, DC, 2015, pp. 363-379.
- Yu GY, Mate S, Garcia K, Ward MD, Brueggemann E, Hall M, Kenny T, Sanchez-Lockhart M, Lefranc MP, Palacios G. Cynomolgus macaque (*Macaca fascicularis*) immunoglobulin heavy chain locus description. *Immunogenetics.* 2016 Jul;68(6-7):417-28.
- Bachelier F, Graham GJ, Locati M, Mantovani A, Murphy PM, Nibbs R, Rot A, Sozzani S, Thelen M. An atypical addition to the chemokine receptor nomenclature: IUPHAR Review 15. *Br J Pharmacol.* 2015;172:3945-9.
- Ziegler-Heitbrock L. Blood Monocytes and Their Subsets: Established Features and Open Questions. *Front Immunol.* 2015 Aug 17;6:423.
- Engel P, Boumsell L, Balderas R, Bensussan A, Gattei G, Horejsi V, Jin BQ, Malavasi F, Mortari F, Schwartz-Albiez R, Stockinger H, van Zelm M, Zola, Clark G. CD Nomenclature 2015. Human Leukocyte Differentiation Antigen (HLDA) Workshops as a driving force in immunology. *J Immunol.* 2015 Nov 15;195(10):4555-63.
- 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 Leukocyte 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, Cabezón 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

# NOM 2015 & 2016 Budgets



## Year 2015 budget



### **Allocated amount for 2015: \$6,000**

\$2,000 Allergen Nomenclature Subcommittee: Chair Richard Goofmann

\$1,000 KIR Nomenclature Subcommittee: Steve March

\$1,000 Monocytes and Dendritic cells Subcommittee : Chair Loems Zigler-Heltbrook

\$2,000 CD Nomenclature Subcommittee: Chair Pablo Engel

## Year 2016 budget

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

\$4,000 for the Allergen Nomenclature Subcommittee

€3,000 for the CD molecule Nomenclature Subcommittee

# NOM Opportunities and Challenges



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

**Create new subcommittees especially especially related to cells and cell subsets of the immune system nomenclature**

-Tissue macrophages; dendritic cells; and T cell subsets

**Create of a new subcommittee of cytokine/chemokine nomenclature in collaboration with the International Cytokine&Interferon Society**

**Boost the activity of the subcommittees that are not working well**

**Establishing an official collaboration between the IUIS Nomenclature Committee and WHO seems fundamental for the international recognition of the work and authority of our nomenclature committees**