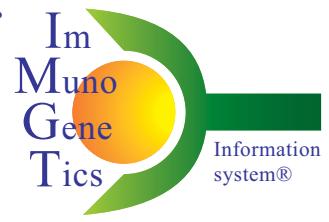


# IMGT Collier de Perles, a new look for IG, TR and other

## IgSF, MHC and other MhcSF in immune regulation

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IMGT the international ImMunoGeneTics information system®, LIGM, UM2, CNRS UPR1142, IGH  
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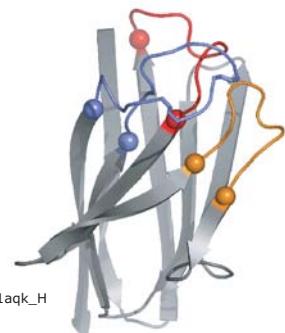


<http://imgt.cines.fr>

- IMGT®, the international ImMunoGeneTics information system®, <http://imgt.cines.fr>, is a high-quality integrated knowledge resource, specialized in the immunoglobulins (IG), T cell receptors (TR), major histocompatibility complex (MHC), and related proteins of the immune system (RPI) belonging to the IgSF and MhcSF.
- The data coherence in IMGT® is based on IMGT-ONTOLOGY, the first ontology in immunogenetics and immunoinformatics. One of the breakthrough was the implementation of the IMGT unique numbering for V-DOMAIN and C-DOMAIN (IG and TR) and for G-DOMAIN (MHC), based on the IMGT-ONTOLOGY concepts of numerotation.
- Standardized 2D graphical representations or IMGT Colliers de Perles have been extended to the V-LIKE-DOMAIN and C-LIKE-DOMAIN of the IgSF other than IG and TR, and to the G-LIKE-DOMAIN of the MhcSF other than MHC. By bridging the gap between sequences and structures, IMGT Colliers de Perles provide a new look in immune regulation.

### 3D structures

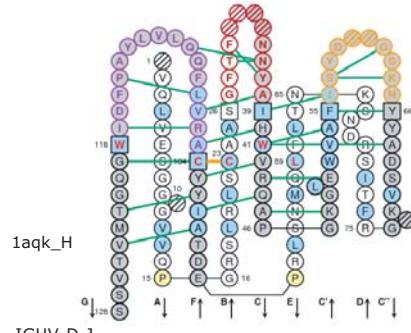
#### IgSF domain of V type



Lefranc, M.-P. et al *Dev. Comp. Immunol.* 27, 55-77 (2003)

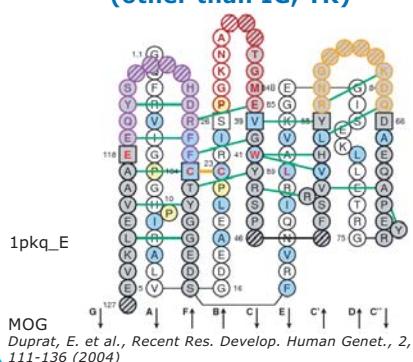
### IMGT Colliers de Perles

#### V-DOMAIN (IG, TR)

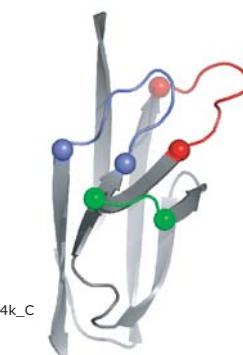


### IMGT Colliers de Perles

#### V-LIKE-DOMAIN (other than IG, TR)

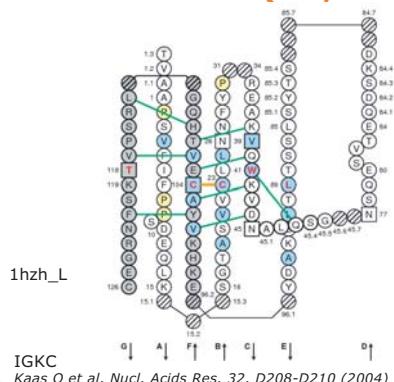


#### IgSF domain of C type



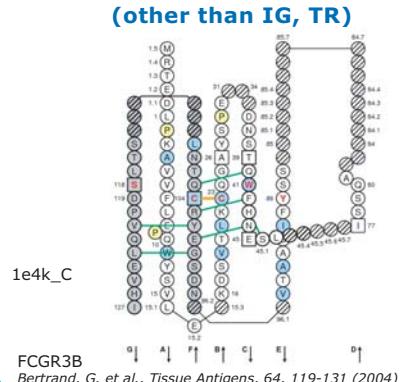
Lefranc, M.-P. et al *Dev. Comp. Immunol.* 29, 185-203 (2005)

### C-DOMAIN (IG, TR)

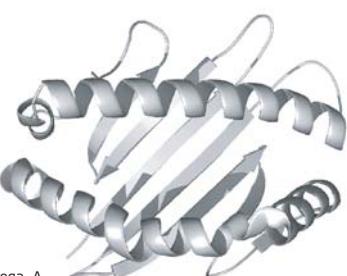


### IMGT Colliers de Perles

#### C-LIKE-DOMAIN (other than IG, TR)

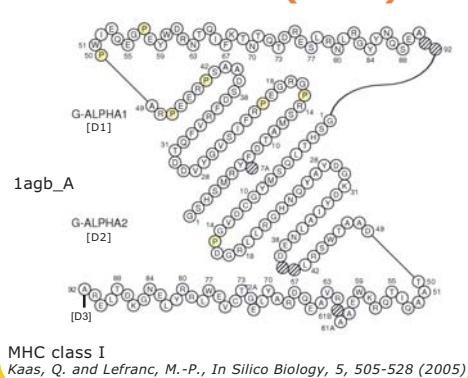


#### MhcSF domain of G type



Lefranc, M.-P. et al *Dev. Comp. Immunol.* 29, 917-938 (2005)

### G-DOMAIN (MHC)



### IMGT Colliers de Perles

#### G-LIKE-DOMAIN (other than MHC)

