The IMGT® information system

The IMGT® information system is a comprehensive database that provides a standardized nomenclature and classification system for immunoglobulins and T-cell receptors. It is based on the IMGT-Kaleidoscope, which is a formal ontology that defines concepts and relationships in the field of immunology.

**IMGT-Kaleidoscope axioms**

- **Identification**: concept of identification and has relations with the Functionality and StructureType concepts.
- **Classification**: concept of classification and has relations with the sequences and genes.
- **Description**: concept of description and has relations with the functional, structural, and biological aspects of the molecules.
- **Numerotation**: concept of numerotation and has relations with the localisation and identification of the molecules.

**IMGT-Kaleidoscope concepts**

- **MoleculeEntityType**: concept of identification that has relations with the gene and configuration.
- **GeneType**: concept of classification that has relations with the configuration.
- **ConfigurationType**: concept of description that has relations with the molecule and gene.

**Graphical representation**

The IMGT® information system provides graphical representation of the relationships between the concepts, allowing for a visual understanding of the classification and identification of immunoglobulins and T-cell receptors.