



### 3.3.10 Systemic Immune-Mediated Diseases\*

#### COMPOSITION

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#### STRATEGIC OBJETIVES

##### 1. Establishment and consolidation of the group

- To create an efficient organizational structure for clinical research in systemic immune-mediated diseases.
- Develop standardized clinical data collection protocols
- Implement a unified database of patients with immune-mediated diseases.

##### 2. Development of excellent clinical research

- Design and execute clinical trials in systemic immune-mediated diseases.
- Establish collaborations with other national and international research groups.
- To create prospective patient registries for observational studies.

##### 3. Implementation of translational research

- Establish a specific biobank of samples from patients with immune-mediated diseases.
- Develop projects that connect clinical findings with basic research.
- Identifying biomarkers with potential clinical application

##### 4. Development of innovative cell therapies

- Establish a cell therapy unit for immune-mediated diseases.
- Develop personalized cell therapy protocols
- Implement clinical trials with advanced cell therapies

##### 5. Education and training

- To train new researchers in the field of immune-mediated diseases.
- Establish specific doctoral and master's degree programs.
- Organize specialized seminars and workshops

#### RESEARCH LINES

##### 1. Clinical and epidemiological characterization of systemic immune-mediated diseases.

- Natural history studies and prognostic factors
- Recording and follow-up of rare clinical manifestations
- Analysis of comorbidities and their therapeutic implications

##### 2. Therapeutic optimization in immune-mediated diseases

- Effectiveness and safety studies of conventional and biologic therapies
- Development of personalized treatment algorithms
- Monitoring of adverse events and complications

##### 3. Cell therapy in immune-mediated diseases.

- Development of mesenchymal stem cell protocols.
- CAR-T cells research for autoimmune diseases
- Studies of immune modulation by cell therapy

##### 4. Biomarkers and personalized medicine

- Identification of prognostic and predictive biomarkers
- Development of specific activity and damage scores
- Implementation of precision medicine in clinical practice.

##### 5. Pathogenic mechanisms and new therapeutic targets.

- Study of altered immunological pathways
- Identification of new therapeutic targets
- Clinical validation of basic findings

##### 6. Research on patient-reported outcomes (PROs)

- Development and validation of specific questionnaires
- Quality of life and satisfaction studies
- Implementation of PROs in routine clinical practice

