Study group on MHC-I-opathy

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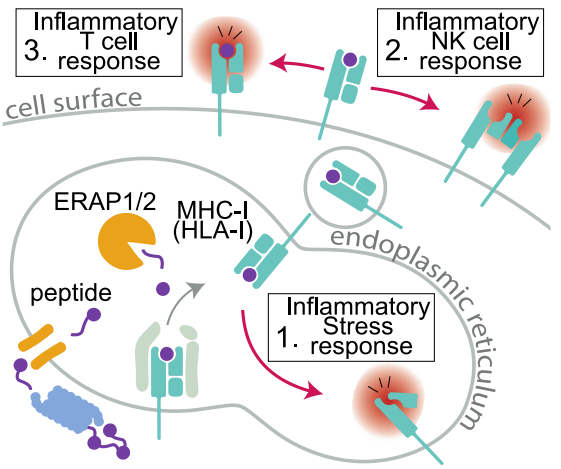
fighting rheumatic & musculoskeletal diseases together

- Aim: Develop a unified concept and understanding of the MHC-I- opathies. Elucidate the distinct basis from the classical autoimmune diseases.
- Background: MHC class I proteins presents peptide products of intracellular protein turnover on their antigen binding groove and triggers an immune response (see figure on proposed mechanisms). Axial SpA and Behçet's syndrome, Psoriasis and Birdshot retinitis are several well-known examples of diseases which are highly associated with MCH-I (i.e. HLA-B*27, -B*51, -C*06 and -A*29, respectively). Although recognizable as separate entities, they share clinical and pathophysiological pathways, including ERAP-1 and IL-23R. We hypothesize different peptides from different tissues in different class-I antigens has the common clinical and genetic overlaps because of MHC-I-opathy.

- The study group wants to facilitate collaboration, sharing expertise and knowledge across the borders of the different diseases.
- Included in the study group are researchers and clinicians from relevant basic and translational and clinical aspects of MHC class I diseases, including ophthalmology and dermatology.
- We performed a literature overview with arguments for our hypothesis in a review.
- We started implementing clinical definitions in Human Phenotype Ontology (to enable large studies).
- We started a GWAS study-group, intending to combine existing data across the different diseases.
- We started a LinkedIn group.



- This Study group is part of EULAR Investigative Rheumatology Study Group

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- Patient partners: Kees Bosman, Peter Bohm