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RESEARCH AREA

My research interests include the investigation of the pathomechanism of autoimmune diseases, more specifically bullous pemphigoid, the most common form of autoimmune blistering skin diseases, . Our aim is to gain a better understanding of the immunological processes leading to blistering by these patients. For this purpose, we use a fully human model system, in which our current focus is the role of the complement system in blister formation.

Our experiments aim to identify new molecular targets and to test the effects of therapeutics used in other diseases, thereby identifying new therapeutic options in this difficult-to-treat disease.

TECHNIQUES AVAILABLE IN THE LAB

Our experiments offer the opportunity to learn the following techniques:

- The production of frozen sections
- Immunofluorescence
- human bullous pemphigoid model
- video microscopic techniques
- neutrophil granulocyte activation assays
- gel electrophoresis, western blot
- GST fusion protein generation, pcr, cloning, protein production.

SELECTED PUBLICATIONS

Vikár, S., P. Szilveszter, K., Koszorú, K., Sárdy, M., Mócsai, A. (2024) The Syk inhibitor entospletinib abolishes dermo-epidermal separation in a fully human ex vivo model of bullous pemphigoid. **J Inv Dermatol 144(8):** 1733-1742.

P. Szilveszter, K., **Vikár, S.**, Horváth, Á.I., Helyes, Z., Sárdy, M., Mócsai, A. (2022) Phospholipase Cγ2 Is Essential for Experimental Models of Epidermolysis Bullosa Acquisita. **J Inv Dermatol 142(4):** 1114-1125.