Special Issue

Decoding the Molecular Landscape of Atopic Dermatitis: Bridging Mechanisms, Biomarkers, and Therapeutics

Message from the Guest Editors

Atopic dermatitis (AD) is a multifactorial, chronic inflammatory skin disorder affecting millions worldwide, with rising prevalence and significant impact on quality of life. Despite advances in understanding its complex pathogenesis—spanning genetic predisposition, immune dysregulation, epidermal barrier dysfunction, and environmental triggers—critical gaps remain in deciphering the molecular networks driving disease heterogeneity, progression, and therapeutic resistance. Recent breakthroughs in omics technologies, CRISPR-based functional studies, and high-resolution imaging have unveiled novel insights into cytokine signaling , neuroimmune interactions, and microbiome–host crosstalk. However, challenges persist in translating these findings into personalized therapies and biomarkers for diverse AD endotypes. This Special Issue, “Decoding the Molecular Landscape of Atopic Dermatitis”, invites reviews, perspectives, or opinions and original research articles addressing unresolved questions in AD pathogenesis.

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