## **Contents**

Highlight: Molecular Determinants of Health and Disease - 25<sup>th</sup> Anniversary of the Interdisciplinary Center Clinical Research Münster

Editorial — 1479

Maike Willers and Dorothee Viemann

Role of the gut microbiota in airway immunity and host defense against respiratory infections — 1481

Yvonne Boergeling, Linda Brunotte and Stephan Ludwig Dynamic phospho-modification of viral proteins as a crucial regulatory layer of influenza A virus replication and innate immune responses —— 1493

Suzan Al-Gburi, Stefan Beissert and Claudia Günther Molecular mechanisms of vasculopathy and coagulopathy in COVID-19 —— 1505

Samantha Schmaul, Nicholas Hanuscheck and Stefan Bittner

Astrocytic potassium and calcium channels as integrators of the inflammatory and ischemic CNS microenvironment —— 1519

Cornelius Pauli, Michael Kienhöfer, Stefanie Göllner and Carsten Müller-Tidow

Epitranscriptomic modifications in acute myeloid leukemia: m<sup>6</sup>A and 2'-O-methylation as targets for novel therapeutic strategies —— 1531

Philipp Makowka, Verena Stolp, Karoline Stoschek and Hubert Serve

Molecular determinants of therapy response of venetoclax-based combinations in acute myeloid leukemia —— 1547

Artur J. Sabat, Daniele Pantano, Viktoria Akkerboom, Erik Bathoorn and Alexander W. Friedrich

Pseudomonas aeruginosa and Staphylococcus aureus virulence factors as biomarkers of infection —— 1565

Thomas Schwarz and Agatha Schwarz

Controllers of cutaneous regulatory T cells: ultraviolet

radiation and the skin microbiome — 1575

Stephan Hailfinger and Klaus Schulze-Osthoff The paracaspase MALT1 in psoriasis — 1583

Sudheendra Hebbar Subramanyam and Klaus Tenbrock The cAMP responsive element modulator (CREM) is a regulator of CD4<sup>+</sup> T cell function —— 1591

Hans Oberleithner

Quantifying salt sensitivity —— 1597

Jasna Peter-Katalinic

Life sciences and mass spectrometry: some personal reflections —— 1603