

## Proteomic fingerprint of primary podocytes

Jörn Dengjel

Due to its complexity and its postmitotic nature, the epithelial podocyte represents the most fragile component of the glomerular filtration barrier in the kidney. We have combined fluorescence activated cell sorting and quantitative mass spectrometry-based proteomics to outline the first molecular fingerprint of primary mouse podocytes. Using label-free quantitation we identified proteins significantly overrepresented in podocytes compared to other glomerular cells yielding interesting insights into their function. In addition, we succeeded in the characterization of autophagosomes isolated after different inducing stimuli. Proteomic data question the unspecific nature of autophagy.