



## Seminar



### Prof. Dr. Sanjeev Noel

Johns Hopkins University School of Medicine,  
Baltimore

### Harnessing kidney T cells for acute kidney injury treatment

Dr. Sanjeev Noel is an assistant professor in the Division of Nephrology at the Johns Hopkins University School of Medicine. Major focus of his research has been to study the pathophysiologic roles of T lymphocytes in acute kidney injury (AKI) with the aim to develop AKI therapy.

His research work showed that T cell specific Nrf2 activation protects from AKI in mice. Based on these promising findings, he optimized CRISPR/Cas9 gene editing to augment Nrf2 regulated antioxidant activity in primary human T cells which showed significant translational potential in a mouse model of AKI.

More recently he demonstrated that novel immune checkpoint molecule, TIGIT, is upregulated during AKI and potentially contributed in AKI pathophysiology. Based on these exciting results he is currently awarded with an NIH R01 grant to further explore TIGIT role in AKI and develop strategies to target this important pathway for AKI.

Additionally, Dr. Noel is also interested in exploring the roles of unconventional T cells such as double negative and double positive T cells and gut microbiota in AKI pathophysiology.

**Time:** Monday, 22 July 2024, 16:30h  
**Location:** Pathologie Universitätsklinikum Erlangen  
Krankenhausstr. 8 - 10  
Oberer Hörsaal, Raum A 2.150  
and Zoom

**To get the Zoom link please contact:**  
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