

COLLOQUIA IN CELLULAR SIGNALLING

Venue: Medical University Vienna, Center for Physiology and Pharmacology,
Institute of Pharmacology, Waehringerstrasse 13a, 1090 Vienna, "**Leseraum**".

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Monday **10.11.2014 11:00 s.t.** **Rainer Oberbauer** (host: M. Freissmuth)
Universitätsklinik für Innere Medizin III
Währinger Gürtel 18-20
1090 Wien

***"Improving outcomes after kidney transplantation –
an integrative approach"***

[Rainer Oberbauer \(rainer.oberbauer@meduniwien.ac.at\)](mailto:rainer.oberbauer@meduniwien.ac.at)

Abstract:

Acute kidney injury (AKI) affects roughly 25% of all recipients of deceased donor organs and poses the strongest risk factor for a reduced graft half-life. The prevention of post-transplant AKI thus is still an unmet clinical need. Over the last one and a half decades we enrolled all transplant candidates into a prospective cohort study and collected allograft pre-implantation and follow up renal biopsies together with clinical and demographic data in several centers in Europe.

Based on omics-wide studies of these biopsies with adjacent systems biology approaches and bio-statistics we elucidated candidates for potential prophylactic and therapeutic interventions, which were tested in vitro and in rat transplant models in vivo. Currently we are working on the application in human transplant kidneys.

In my talk I will take you on a journey from clinical transplantation to the lab bench and back to true clinical applications.

Suggested readings and further information may be found at our lab website:

www.muw.ac.at/nephrogene

pdfs of papers (user: guest, pw: papers)