Colloquia in Membrane Transport

Venue: Medical University Vienna, Center for Physiology and Pharmacology,
Institute of Pharmacology, Waehringerstrasse 13a, 1090 Vienna,
"**Big Lecture Hall Pharmacology**".
(Harald Sitte, Tel.: (01) 40160 31323, *harald.sitte@meduniwien.ac.at*,
Oliver Langer, Tel.: (01) 40400-2981, oliver.langer@meduniwien.ac.at,

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Monday 16.03.2015 14:00 s.t. **Marcus Hacker** (host: O. Langer)

Universitätsklinik für Radiologie
und Nuklearmedizin
Währinger Gürtel 18-20
1090 Vienna

"In-vivo tissue characterization: a Nuclear Medicine approach"

Marcus Hacker (marcus.hacker@meduniwien.ac.at)

Abstract:

Noncoding variants in the human genome facilitate adaptation in a changing environment, but the vast majority of noncoding variants remains unknown. With widely diverse effects, only a small fraction of variants is likely to affect clinically relevant phenotypes. This is a critical challenge to understanding the genetics of complex disorders and treatments. We have developed an integrated computational and experimental approach to characterize and prioritize causal variants, with a focus on variants having clinical relevance. Such variants affect key genes in network hubs, tend to be under evolutionary constraints, and participate in epistatic interactions. I will present examples of noncoding variants in drug transporters, enzymes, and receptors with clinical relevance.