ADDRESS COLLOQUIA

Venue: Medical University Vienna, Center for Physiology and Pharmacology,
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Friday 17.3.2017 12.00 s.t. Walter Sandtner (host: H. Sitte)

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"Drugs with atypical properties targeting monoamine transporters."

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Abstract:
The transporters for the monoamines serotonin, dopamine and norepinephrine (SERT, DAT and NET) are important drug targets. Ligands that bind to these transporters are used for treating a wide range of disorders such as depression, attention deficit hyperactivity disorder, neuropathic pain etc. Drugs which affect monoamine transporters usually fall into two catagories : they are either inhibitors of monoamine uptake or they are transported as exogenous substrates. Here I will show that ligands exist that can be both: exogenous substrates and inhibitors. Moreover, I will demonstrate that the mode of action of these ligands is governed by the surrounding ionic composition which is sensed by the transporters.