

COLLOQUIA IN CELLULAR SIGNALLING

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

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Friday **04.12.2015 12:00 s.t.** **Peter J. McCormick** (host: Ch. Gruber)
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***"G-protein coupled receptor heteromers as
therapeutic targets"***

Peter J. McCormick (email: P.McCormick@uea.ac.uk)

Abstract:.

Many G-protein coupled receptors (GPCRs) previously suspected to exist as membrane receptor monomers are expressed on the plasma membrane as homo/heterodimers or multimers. Receptor heteromers are dimeric or higher order molecular entities that result from combinatorial evolution and are endowed with unique biochemical and functional properties that can be harnessed for therapeutic purposes. Part of these unique properties stem from the ability of the receptors to alter downstream signalling of the partner receptor. This talk will highlight our work on one particular GPCR heteromer and show both in vitro and in vivo evidence for its therapeutic potential.