Australian National University

Functional interaction between carbonic anhydrases and acid/base-coupled membrane transporters.

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Slatyer Seminar Room RN Robertson Building (46), ANU

Several acid/base-coupled membrane transporters, pH-regulating as well as metabolite carriers, such as sodium/bicarbonate cotransporter (NBC) and monocarboxylate transporters (MCTs), are modulated by carbonic anhydrases (CA). The mechanism of this interaction may be quite variable, being either dependent on, or independent of, the catalytic activity of CAs. In this seminar both mechanisms and the interaction specificity between different isoforms of carriers and CAs are discussed.

Professor Dietmer is a Professor of Zoology/Neurobiology at the University of Kaiserslautern, Germany, and is presently on sabbatical at the ANU. He obtained his Doctoral degree at the University of Konstanz, completed postdocs in Bristol, U.K., and in Los Angeles, U.S.A. His work has focused on cellular pH regulation, membrane transport, calcium signalling, physiology of glial cells and neuron-glia interaction. Find out more at his home page: www.uni-kl.de

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