



The Photopharmacology of Glutamate Receptors

Professor Dirk Trauner

Department of Chemistry,
Ludwig-Maximilians-Universität München

Wednesday May 18 at 15:00

The Benzon Auditorium

Faculty of Pharmaceutical Sciences, University of Copenhagen
Universitetsparken 2, 2100 København Ø

Selected references:

"A light-gated, potassium-selective glutamate receptor for the optical inhibition of neuronal firing" Janovjak, H.; Szobota, S.; Wyart, C.; Trauner, D.; Isacoff, E. Y. *Nature Neurosci.* **2010**, *13*, 1027–1032

"Nanosculpting reversed wavelength sensitivity into a photoswitchable iGluR" Numano, R.; Szobota, S.; Laud, A. Y.; Gorostiza, P.; Volgraf, M.; Roux, B.; Trauner, D.; Isacoff, E. Y. *Proc. Natl. Acad. Sci. USA* **2009**, *106*, 6814-6819

"Photochemical Control of Endogenous Ion Channels and Cellular Excitability". Fortin, D.L.; Banghart, M.R.; Dunn, T.D.; Borges, K.; Wagner, D.A.; Gaudry, Q.; Karakossian, M.; Otis, T.W.; Kristan, W.B.; Trauner, D.; Kramer, R.H. *Nature Meth.* **2008**, *5*, 331

"Mechanisms of photoswitch conjugation and light activation of an ionotropic glutamate receptor." Gorostiza, P.; Volgraf, M.; Numano, R.; Szobota, S.; Trauner, D.; Isacoff, E. Y. *Proc. Natl. Acad. Sci. USA* **2007**, *104*, 10865

"Reversibly Caged Glutamate: A Photochromic Agonist of Ionotropic Glutamate Receptors" Volgraf, M.; Gorostiza, P.; Szobota, S.; Helix, M. R.; Isacoff, E. Y.; Trauner, D. *J. Am. Chem. Soc.* **2007**, *129*, 260

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Organized on behalf of GluTarget and the Danish Chemical Society by Professor Kristian Strømgaard, Department of Medicinal Chemistry, The Faculty of Pharmaceutical Sciences, University of Copenhagen, e-mail: krst@farma.ku.dk. Participation is free of charge and is open for attendance by all interested parties. No registration is required