

List of Publications

Dissertation (PhD thesis)

"Dihydrodioldehydrogenasen aus Ratte und Kaninchen: Enzymologie und toxikologische Bedeutung." Johannes Gutenberg University of Mainz, 1987.

Habilitation thesis (D.Sc. thesis)

"Die Verfügbarkeit von Cholin für die Synthese von Acetylcholin im Gehirn." Johannes Gutenberg University of Mainz, 1995.

Book

J. Klein und K. Löffelholz (Eds.): Cholinergic Mechanisms: From Molecular Biology to Clinical Significance. *Progress in Brain Research* Band 109, Elsevier 1996.

Papers published in international, peer-reviewed journals

- (1) H.R. Glatt, R. Padykdula, G.A. Berchtold, G. Ludewig, K.L. Platt, J. Klein and F.Oesch (1989) Multiple activation pathways of benzene leading to products with varying genotoxic characteristics. *Env. Health Persp.* 82, 81-89.
- (2) J. Klein, K. Post, H. Thomas, W. Wörner, F. Setiabudi, H. Frank, F. Oesch and K.L. Platt (1990) The oxidation of the highly tumorigenic benz(a)anthracene-3,4-dihydrodiol by rat liver dihydrodiol dehydrogenase. *Chem.-Biol. Interact.* 76, 211-226.
- (3) C. Gauss, J. Klein, K. Post, D. Suckau, K. Schneider, H. Thomas, F. Oesch and M. Przybylski (1990) Mass spectrometric peptide mapping analysis and structural characterization of dihydrodiol dehydrogenase isoenzymes. *Env. Health Persp.* 88, 57-62.
- (4) J. Klein, A. Köppen and K. Löffelholz (1990) Small rises of plasma choline reverse the negative arterio-venous difference of brain choline. *J. Neurochem.* 55, 1231-1236.
- (5) J. Klein, A. Seidel, H. Frank, F. Oesch and K.L. Platt (1991) Regiospecific oxidation of polycyclic aromatic dihydrodiols by rat liver dihydrodiol dehydrogenase. *Chem.-Biol. Interact.* 79, 287-303.
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- (12) K. Löffelholz, J. Klein and A. Köppen: Choline, a precursor of acetylcholine and phospholipids in the brain. In: *Cholinergic Neurotransmission: Function and Dysfunction*. Prog. Brain Res. 98, 199-202 (1993).
- (13) T. Holler, E. Cappel, J. Klein and K. Löffelholz (1993) Glutamate activates phospholipase D in hippocampal slices of newborn and adult rats. *J. Neurochem.* 61, 1569-1572.
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