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The pharmacokinetic laboratory

Aimed on pharmacokinetic research on the level of cytochrome P450 (CYP) biotransformation. The applicant will meet various methods for determination of CYP metabolic activity used in preclinical research. Methods used: model of isolated liver microsomal fraction, pharmacokinetics studies in the living animals, stereotaxic surgery in rats, determination of total protein, total CYP content, Western blot analysis of CYP enzymes, quantitative analysis of probe substrates in biological samples with HPLC + DAD, FLD, electrochemical detection. Clinical methods of CYP activity phenotyping can be demonstrated, too. Recently we focus our research on the central regulation of liver CYP activity (namely on the involvement of endocannabinoid system).

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