

Profile

Date:	Deadline:
-------	-----------

Contact

Organisation	SOLVO BIOTECHNOLOGY	Department	
Contact person	Péter Krajcsi, CSO Zsolt Fekete, project manager		
Email	karjcsi@solvo.com , fekete@solvo.com		
Address	52. Közép fasor		
Postcode	H-6726	City	Szeged
Country	Hungary		
Telephone	+36 62 424 729	Fax	+36 62 420 617
Website			

Organisation

Type:	research enterprise
Is a Small and Medium Sized Enterprise (SME)? YES	
Number of Employees	70
Description of research activity:	Development of in vitro and in vivo models and performance of correlation studies to evaluate the importance of transporters in drug research, nutrition and toxicology

Former participation in an FP European project?

Project title / Acronym:	membrane transporters – in vitro models for the study of their role in drug fate (MEMTRANS)
Activities performed:	assays on membrane vesicles expressing high levels of the relevant ABC transporters, study of drug transporter interactions on the selected transfected cell lines
Project title / Acronym:	Optimisation of liver and intestine in vitro models for pharmacokinetics and pharmacodynamics studies (LIINTOP)
Activities performed:	Correlation analysis of drug transporter interactions on transfected MDCKII cell lines, development of advanced in vitro intestinal and liver models for transport and metabolism

Project title / Acronym:	Development and application of transposons and site-specific integration technologies as non-viral gene delivery methods for ex-vivo gene-based therapies (INTHER)
Activities performed:	Characterize single-amino acid mutant variants of ABCG2 transporter protein with different, specific drug transport properties, suitable for selective protection of the cells against cytotoxic agents.
Project title / Acronym:	Biosimulation – a new tool in drug development (BIOSIM)
Activities performed:	ABCG2 in vitro assays to identify ABCG2 inhibitors. Active compounds tested for in vitro cytotoxicity and characterize their in vitro pharmacological effect. Circadian rhythm studies to determine circadian changes in ABCB1 expression and function.
Project title / Acronym:	European network to promote research into uncommon cancers in adults and children: pathology, Biology and Genetics of bone tumours (EUROBONET)
Activities performed:	The delineation of protein expression profile of Ewing's sarcoma cell lines and the alterations produced by treatment with targeted therapy.
Project title / Acronym:	European Stroke Research Network (EUROSTROKE) FP7
Activities performed:	Profiling of transporter expression in BBB models, studies on the effect of ultrasound and microbubbles on the transporter

Research topics

interactions of drugs, nutraceuticals and toxicants with-transporters, ADME-Tox, Uptake and efflux transporters, pharmacokinetics and pharmacodynamics, multidrug resistance, in vitro modelling of physiological barriers, nutrition, toxicology, toxicokinetics

Expertise/commitment offered

Keywords specifying the expertise:	in vitro and in vivo transporter assays, barrier models, ADME profiling, drug-transporter interaction studies, ABC transporters, Uptake transporters, microdialysis, cell-based assays, membrane assays, vectorial transport, interaction of nutraceuticals and environmental toxicants with transporters
Description of the expertise:	Solvo develops various membrane or whole cell based in vitro assays as well as in vivo methods (e.g. microdialysis, biliary excretion, etc) to study drug-transporter interactions on a wide range of transfected cell lines expressing high level of transporter proteins related to the absorption, distribution, metabolism and excretion of drugs.
Commitment offered	4 FTE/year

Expectations

Term commitment:	
Expected results for your organisation:	new barrier models, new transfected cell lines, advanced in vitro assays, validated barrier packages, in silico models