

BASIC INFORMATION ON SUB-PROJECT

NAME OF PROGRAMME/FUND	Scholarship Fund - Sciex NMS ^{ch}
RESEARCH FIELD AND OTHER RESEARCH FIELDS INVOLVED (if applicable)	Chemistry
TITLE OF THE SUB-PROJECT	Water-Soluble Arene Ruthenium Complexes Containing Polar Ferrocene Ligands for Catalysis and Biological Activity (FERRORUTH)
REGION OF THE CZECH REPUBLIC (according to the location of the home institution)	Prague
GRANT AMOUNT SPENT	32 250,50 CHF
INTERMEDIATE BODY	Swissuniversities
HOME INSTITUTION	Charles University in Prague Faculty of Science
HOST INSTITUTION	University of Neuchâtel Institut de Chimie
NAME OF THE FELLOW	Jiří Tauchman
ABSTRACT OF THE SUB-PROJECT	The project aims to synthesize water-soluble arene ruthenium complexes containing chiral chelating ligands derived from ferrocene and amino acids and to exploit the potential of these new compounds as catalysts for enantioselective hydrogenation or transfer hydrogenation reactions in aqueous solution. Furthermore the cytotoxicity of these compounds for cancer cells will be studied.

MAIN RESULTS	<p>J. Tauchman, B. Therrien, G. Süss-Fink, P. Štěpnička, <i>Organometallics</i> 2012, <i>31</i>, 3985–3990.</p> <p>J. Tauchman, B. G. Süss-Fink, P. Štěpnička, O. Zava, P. J. Dyson, <i>J. Organomet. Chem.</i> 2013, <i>723</i>, 233–238.</p>
DATE OF REALISATION OF THE FELLOWSHIP	1.8.2011 - 31.1.2012
MORE INFORMATION ON THE PROGRAMME	www.sciex.ch