

Dr. Zoltán Kaleta Ph.D.

Work experience

01/2012 – Progressio Engineering Bureau Ltd.

work experience: Creating synthetic plans and conducting organic synthesis for external partners (Akos GmbH, Semmelweis University, Medizinische Hochschule Hannover, Helmholtz-Zentrum Dresden, etc.), and also leading own research for the development of fluorescent dyes and precursors for PET imaging. Leader of a small team (5-6 coworkers) of organic chemists.

09/2007 – 12/2011 Servier Research Institute of Medicinal Chemistry

work experience: Part of the hit to lead division, synthesizing compound libraries for various projects, including for the development of S49076.

09/2002 – 08/2007 Chemical Research Center Hungarian Academy of Science, Budapest; Hungary

work experience: synthesizing fluororous compounds for easy separation of organic reactions, developing of a new fluororous tagging method, creating fluororous Lawesson's reagent, hands-on experience on synthesis and separation of chiral compounds.

06/2005 – 11/2005 Oakland University, Rochester Hills, Michigan
Research assistant

work experience: creating a new fluororous Lawesson's reagent.

Education

2002 – 2007 PhD, Eötvös Loránd University, Budapest; Hungary

Phd thesis: "Development of a fluororous tagging method, the synthesis and use of fluororous Lawesson's reagent"

1997 – 2002 MSc in chemical engineering with specialization of pharmaceutical engineer, Budapest University of Technology and Economics, Budapest; Hungary

MSc thesis: Reaction of Naphthols with Cycloalkadienes

1992 – 1997 Graduation: Ybl Miklós High School, Szekesfehervar; Hungary

1995 – 1996 Exchange student: Abbey's Secondary School, Melk; Austria

Publications

Szöllősi, D., Hegedűs, N., Veres, D.S. *et al.* Evaluation of Brain Nuclear Medicine Imaging Tracers in a Murine Model of Sepsis-Associated Encephalopathy. *Mol Imaging Biol* **2018**, *20*, 952–962.

Németh Á.; Kaleta Z. *WSEAS Transactions on Environment and Development* **2015**, *11*, 80-88.

Kaleta, Z., Soós, T. and Dembinski, R. 2009. 2,4-Bis[4-

[(5,5,6,6,7,7,8,8,9,9,10,10,10-tridecafluorodecyl)oxy]phenyl]-1,3,2,4-dithiadiphosphetane 2,4-Disulfide (Fluorous Lawesson's Reagent). e-EROS Encyclopedia of Reagents for Organic Synthesis. .

Kaleta, Z.; Makowski, B. T.; Soós, T.; Dembinski, R. *Org. Lett.* **2006**, *8*, 1625-1628.

Kaleta, Z.; Tárkányi, G.; Gömöry, Á.; Kálmán, F.; Nagy, T.; Soós, T. *Org. Lett.* **2006**, *8*, 1093-1095.

Kaleta, Z.; Egyed, O.; Soós, T. *Organic & Biomolecular Chemistry*, **2005**, *3*, 2228-2230.

Orovecz, O.; Kovács, P.; Kolonits, P.; Kaleta, Z.; Párkányi, L.; Szabó, É.; Novák, L. *Synthesis*, **2003**, 1043-1048.

Awards

First Prize of Poster Section (IASOC 2006)

Junior Researcher Award of the Chemical Research Center of the Hungarian Academy of Science (2006)

Skills

Hands on experience of the synthesis of diagnostic compounds including both the synthesis and coupling of fluorescent dyes and ligands; and also synthesis of precursors for PET studies

Successfully build and lead a chemical research laboratory of a privately owned company for custom synthesis

Creating synthetic plans using biological data to map SAR effectively

Work out synthetic plans and realize the planned synthesis with assistants and other chemists

Automatic flash chromatography (ISCO, ARMEN)

Analytical HPLC (Agilent, Waters, Shimadzu)

Preparative HPLC (Gilson)

NMR Spectroscopy (Varian, Bruker)

Gas Chromatographie (Agilent, Shimadzu)

Mass spectroscopy: detailed analysis of ESI, FAB and EI-MS

Computer Skills (ChemOffice, ChemDraw)

Languages

Hungarian – native

English – advanced level

German – advanced level