

Curriculum Vitæ

Mikael Erlandsson

Born December 5th, 1972

Commence working as a post-doc in Dr. M. Peruzzini research group at Istituto di Chimica dei Composti Organometallici (ICCOM, CNR), located at Sesto Fiorentino (Florence), Italy, September 2006.

Awarded a one year post-doc scholarship from the Bengt Lundqvist Minne foundation in June, 2006

Awarded the degree of Doctor of Philosophy in Neurochemistry and Neurotoxicology on June 2, 2006.

Title of doctoral thesis: *Methodological studies in solid phase synthesis, linkers and applications of multi-component condensations.*

Supervisors: Associate Professor Anders Undén, Ph.D.

Assistant Professor Mattias Hällbrink, Ph.D.

Professor Ülo Langel, Ph.D.

The main focus of the research activities was solid phase peptide synthesis and combinatorial organic chemistry. More specifically, the fundamentally important linkage between the solid support and the substrates was studied. Also, applications for the synthesis of pharmacologically relevant compounds on solid support and convenient methods for reducing disulfide bridges and aromatic nitro compounds in peptides and proteins were studied. The main methodology was classical organic/peptide chemistry, applied on solid support.

Reaccepted for graduate studies, January 2004, after a study break.

Awarded the degree of Licentiate of Philosophy in Neurochemistry and Neurotoxicology in May 2000.

Title of licentiate thesis: *Solid phase synthesis, applications for synthesizing peptides and small organic molecules.*

Awarded scholarship in 1998, from the Knut and Alice Wallenberg Foundation for a 6 month visit at a renowned laboratory in the field of combinatorial chemistry (the scholarship was unfortunately refused due to illness).

Accepted for graduate studies in April 1995.

Degree of Bachelor of Science awarded in January 1995

Commenced university studies August 1991.

List of publications.

Bosquain, S. S.; Dorcier, A.; Dyson, P. J.; Erlandsson, M.; Gonsalvi, L.; Laurency, G.; Peruzzini, M. *Aqueous phase carbon dioxide and bicarbonate hydrogenation catalysed by cyclopentadienyl ruthenium complexes*, submitted

Mikael Erlandsson & Anders Undén

3-(4-Hydroxymethylphenylsulfanyl)propanoic acid (HMPPA) as a new safety catch linker in solid phase peptide chemistry. *Tetrahedron Letters*, **2006**, *47*, 5829-5832

Mikael Erlandsson & Mattias Hällbrink

Metallic zinc reduction of disulfide bonds between cysteine residues in peptides and proteins. *International Journal of Peptide Research and Therapeutics* **2005**, *11*, 261-265

Daniel Jönsson, Mikael Erlandsson & Anders Undén

Solid-phase synthesis of oxygen-bridged tetrahydropyridones. *Tetrahedron Letters*, **2001**, *42*, 6953-6956

Katri Rosenthal, Mikael Erlandsson & Anders Undén

4-(3-Hydroxy-4-methylpentyl)-phenyl acetic acid as a new linker for the solid phase synthesis of peptides with Boc chemistry. *Tetrahedron Letters*, **1999**, *40*, 377-380

Erlandsson, M. & Undén, A.

in *Peptides*, Proceedings of the 24th European Peptide Symposium, (Eds. R. Ramage & R. Epton). *Reduction of aromatic nitro groups in peptides on solid phase*. **1996**, pp. 367-368.

Järlebark, L., Erlandsson, M., Uri, A., King, B. F., Ziganshin, A. U., Johansson, C. & Heilbronn, E. *Peptidyl conjugates of adenosine 5'-carboxylic acid synthesized and evaluated as ligands for P2 purinoceptors*. *Biochemical and Biophysical Research Communications*. **1996**, *229*, 363-369