

Christos I. Stathakis

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WORKING EXPERIENCE/EDUCATION

- 07/2018-** **Assistant Professor**, Organic Chemistry, Chemistry Department, Aristotle University of Thessaloniki
- 2013- 2018** **Research Scientist**, R&D API Operations Thessaloniki, *Pharmathen* S.A.
- 2011-2012:** **Post Doctoral Appointment**, Ludwig-Maximilians-Universität, Munich, Germany. Research Director: *Prof. Dr. P. Knochel*.
- 2009-2010:** **Post Doctoral Appointment**, Research Assistant, N.C.S.R. "Demokritos", Athens, Greece (Research Director: *Dr. D. Vourloumis*).
- 2008-2009:** **Post Doctoral Appointment**, Columbia University, New York, USA
Research Director: *Prof. S. A. Snyder*.
- 2002-2007:** **PhD**, Aristotle University of Thessaloniki, Greece. Supervisor: *Prof. J. K. Gallos*
Doctoral Thesis: «Solid and Solution phase Synthesis of Cyclitols and Aminocyclitols».

RESEARCH EXPERIENCE

- ▶ Rational design, feasibility studies and optimization of *Routes of Synthesis* (RoSs) of *Active Pharmaceutical Ingredients* (APIs) in *industrial scale* preparations.
- ▶ *Organometallic Chemistry*: Synthesis and reactivity of organozinc compounds. Preparation of new, solid, *air-stable* organozinc species and implementation in cross coupling reactions.
- ▶ Total synthesis of natural products and analogues thereof. Structure Activity Relationship Studies for the discovery of new aminoglycoside type antibiotics targeting the ribosomal RNA.
- ▶ *Chemistry of polyphenols*: Total synthesis of resveratrol oligomers with anti-oxidative activity.
- ▶ Synthesis of cyclitols and aminocyclitols using starting materials from the chiral pool. *Carbohydrate chemistry* and *Intramolecular Nitrone-Olefin Cycloadditions* (INOCs) on sugar derived substrates.
- ▶ *Solid Phase Synthesis* of small libraries of carbocyclic scaffolds with potential biological activity.

REPRESENTATIVE SCIENTIFIC PUBLICATIONS

1. *Harnessing quinone methides: Total synthesis of (±)-Vaticanol A*.
T. H. Jepsen, S. B. Thomas, Y. Lin, C. I. Stathakis, I. de Miguel, S. A. Snyder *Angew. Chem., Int. Ed.* **2014**, 53, 6747.
2. *Improved Air-Stable Solid Aromatic and Heterocyclic Zinc Reagents by Highly Selective Metalations for Negishi Cross-Couplings*. C. I. Stathakis, S. Bernhardt, V. Quint, P. Knochel *Angew. Chem., Int. Ed.* **2012**, 51, 9428.
3. *An Improved Approach to Chiral Cyclopentenone Building Blocks. Total Synthesis of Pentenomycin I and Neplanocin A*. J. K. Gallos, C. I. Stathakis, S. S. Kotoulas, A. E. Koumbis *J. Org. Chem.* **2005**, 70, 6884.