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Cancer Center

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Sirkka Moilanen Stephan, PhD

[Graduate Student](#)
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Email

sirkkabrie@hotmail.com

Start Year

2002

End Year

2007

Research Associate, 2012–present
with Prof. Matthias Stephan
Program in Immunology
Fred Hutchinson Cancer Research Center

Postdoctoral Fellow, Boston University, 2007-2009
with Prof. James S. Panek
Department of Chemistry

Frank L. Horsfall, Jr. Fellow, 2006–2007

PhD, Cornell University, 2007
Tri-Institutional Training Program in Chemical Biology

BS, Case Western Reserve University, 2001

Thesis: *Synthesis of a Structurally and Stereochemically Diverse Spiroketal Library Using Novel Stereoselective Spirocyclizations of C1-Substituted Glycal Epoxides*, May 14, 2007

Publications

Stereocontrolled synthesis of spiroketals via Ti(O*i*-Pr)₄-mediated kinetic spirocyclization of glycal epoxides with retention of configuration.

Moilanen, S. B.; Potuzak, J. S.; Tan, D. S.* *J. Am. Chem. Soc.* 2006, *128*, 1792–1793.

[[Abstract](#) | [PubMed](#) | [PMC](#)]

(Highlighted in [Nature](#))

Stereocontrolled synthesis of spiroketals via a remarkable methanol-induced kinetic spirocyclization reaction.

Potuzak, J. S.; Moilanen, S. B.; Tan, D. S.* *J. Am. Chem. Soc.* 2005, *127*, 13796–13797.

[[Abstract](#) | [PubMed](#)]

Enantioselective synthesis of *erythro*-4-deoxyglycals as scaffolds for target- and diversity-oriented synthesis: New insights into glycal reactivity.

Moilanen, S. B.; Tan, D. S.* *Org. Biomol. Chem.* 2005, *3*, 798–803.

[[Abstract](#) | [PubMed](#)]

Discovery and applications of small molecule probes for studying biological processes.

Potuzak, J. S.; Moilanen, S. B.; Tan, D. S.* *Biotechnol. Genet. Eng. Rev.* 2004, *21*, 11–78.

[[PubMed](#)]

In vitro stability of α -helical peptide nucleic acids (α PNAs).

Garner, P.*; Sherry, B.; Moilanen, S.; Huang, Y. *Bioorg. Med. Chem. Lett.* 2001, *11*, 2315–2317.

[[Abstract](#) | [PubMed](#)]

News Articles

09/01/2006

27th Annual Convocation Ceremony

MSKCC Center News

Sirkka Moilanen was awarded a Frank L. Horsfall, Jr. Fellowship for 2006-2007. [[Full text](#)]

02/02/2006

Chemistry: Order of the rings

Nature

One of the great challenges in organic chemistry is developing novel ways to synthesize complex structures. The best reactions work for a range of chemical substrates, and give high yields. By these criteria, a reaction, discovered by Derek Tan of the Memorial Sloan Kettering Cancer Center in New York and his co-workers is near ideal. [[Full text](#)]

