

Santa Clara Valley Science and Engineering Fair Association

P.O. Box 307, Los Altos, California 94023 • 650-856-1289

www.science-fair.org

Celebrating Consecutive Regional Science Fairs Since 1960

Affiliated with the Intel International Science and Engineering Fair

MENTOR PROFILE FOR STUDENTS TO REVIEW

Please fill in the appropriate information boxes below, and email this document to rvwcwl@yahoo.com for posting on our website www.science-fair.org.

Last name: Ulrich

First name: Sebastien

College and degree(s) earned: PhD in molecular and supramolecular organic chemistry, Strasbourg, France. MSc in chemistry, Strasbourg, France.

Email address: contact mentors@science-fair.org

Web page (if applicable):

Phone number and available hours to call:

Your background summary: (Please limit to 200 words)

2010/01- Present:

Post-doctoral research assistant, [Prof. E. T. Kool](#), Stanford University, Stanford, USA

- Probing steric effects in DNA transcription with synthetic nucleosides

2009/01-2010/01

Post-doctoral research assistant, [Prof. H. L. Anderson](#), Oxford University, Oxford, UK

- Porphyrin-Peptide conjugates for Photodynamic Therapy

2005/10-2008/09

PhD Student, Laboratory of Supramolecular Chemistry, [Prof. J.-M. Lehn](#), I.S.I.S., Strasbourg, France

- Design, synthesis and application of molecular switches in dynamic chemistry. Thesis: “[Morphological Switching and Constitutional Dynamics](#)”

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Briefly write about your science and/or engineering interests:

MOLECULAR AND SUPRAMOLECULAR CHEMISTRY AND BIOCHEMISTRY

- **ORGANIC SYNTHESIS:** Heterocycles, porphyrins, peptides, oligonucleotides, bioconjugation techniques
- **ANALYTICAL CHEMISTRY:** 1D, 2D, DOSY NMR; UV-Vis spectroscopy; MALDI, ESI MS; HPLC
- **SUPRAMOLECULAR CHEMISTRY:** Organic and inorganic self-assembly, molecular switches
- **BIOCHEMISTRY:** Enzymatic studies (RNA Pol.), radioisotopic labeling (^{32}P), gel electrophoresis
- **MEDICINAL CHEMISTRY:** Photodynamic therapy, cell cultures, fluorescence imaging

Projects from which scientific category (one or more) would you be interested in mentoring? Categories are explained in detail at <http://synopsys.championship.googlepages.com/scientificcategoriesforprojects>.

Chemistry and Biochemistry

If you are a past Science Fair Judge, list scientific categories which you judged:

Chemistry

If you are a past Science Fair Judge, list fairs by name in which you participated (local school fair, Synopsys Championship, CSSF, ISEF, etc.)

ISEF 2010
