

Dr. sc. Srećko Kirin

Ruđer Bošković Institute, Bijenička cesta 54, HR-10000 Zagreb, Croatia
☎: +385-1-4561-189; ✉: Srecko.Kirin@irb.hr; 🌐: www.irb.hr/en/home/skirin

EDUCATION

- 1998 **Dr. sc.** in Chemistry, University of Zagreb, Croatia
1994 **M. sc.** in Organic chemistry, University of Zagreb, Croatia
1991 **Diploma** (B. sc.) in Chemistry, University of Zagreb, Croatia

RESEARCH EXPERIENCE

- 2008- **Research Associate** (eq. to Assist. Professor), Ruđer Bošković Institute
2008 **Senior Assistant**, Ruđer Bošković Institute
 Magnetic materials; with Dr. sc. Pavica Planinić
2006-2007 **Postdoctoral Assistant**, Pennsylvania State University, USA
 Bioinorganic materials; with Professor Mary Elizabeth Williams
2001-2006 **Postdoctoral Assistant**, University of Heidelberg, Germany
 Bioinorganic chemistry; with Professor Nils Metzler Nolte
1995-2001 **Dr. sc. Student** (since 1998 **Senior Assistant**), Ruđer Bošković Institute
 Organometallic chemistry; with Dr. sc. Mirjana Eckert-Maksić
1993-1995 **M. sc. Student**, Ruđer Bošković Institute
 Enantioselective catalysis; with Professor Vitomir Šunjić
1992-1993 **Industrial Researcher**, PLIVA Pharmaceutical Industry, Croatia
 Pharmaceutical chemistry; with Dr. sc. Zdravko Crnić
1991 **Undergraduate (B. sc.) Student**, University of Zagreb, Croatia
 Natural product synthesis; with Professor Ante Deljac

RESEARCH INTERESTS

- Coordination chemistry of transition metals and lanthanides
- Inorganic stereochemistry. Homogeneous catalysis
- Synthetic bioinorganic and bioorganometallic chemistry
- (Bio)organic synthesis of nitrogen ligands, (pseudo-)peptides & nucleic acid analogs

PUBLICATIONS AND PRESENTATIONS

38 publications (1 book chapter, 27 peer-reviewed journal paper, 2 patents, 8 other paper)
69 presentations (55 conference abstract and 14 public seminars)

TEACHING EXPERIENCE

Teaching Assistant, Advanced Inorg Chem Lab, University of Zagreb, Croatia, 2008-

Teaching Assistant, Lab courses & seminars, University of Heidelberg, Germany, 2001-06
General chemistry; Inorganic chemistry; Organic chemistry; Chemistry of biopolymers

Adjunct Lecturer, General chemistry seminar, Open College Zagreb, Croatia, 1998-2000

GROUP MEMBERS

Zoran Kokan, graduate research assistant

Đani Škalamera, graduate research assistant

Dr. sc. Goran Kovačević, postdoctoral research assistant

Ivana Borilović, undergraduate research assistant

RESEARCH PROJECTS

Synthesis and characterization of multi-metallic bioconjugates (2010-2011), Croatian-German bilateral grant program (**MSES / DAAD**); principle investigators: Dr. sc. Srećko Kirin and Professor Nils Metzler-Nolte (Ruhr University Bochum, Germany)

Metallated bioconjugates for applications in biological and material sciences (2010-2011), Homing grant program (100.000 €), National foundation for science (**NZZ**), Croatia (with international peer-review); principle investigator: Dr. sc. Srećko Kirin

Organometallic and inorganic bioconjugates as potential enantioselective catalysts (2009-2011), Homeward grant program (200.000 €), Unity Through Knowledge Fond (**UKF**), Croatia (with international peer-review); principle investigator: Dr. sc. S. Kirin

SELECTED PUBLICATIONS

S. I. Kirin, I. Ott, R. Gust, W. Mier, T. Weyhermüller, N. Metzler-Nolte: "Cellular uptake quantification of metallated peptide and peptide nucleic acid bioconjugates by atomic absorption spectroscopy", **Angew. Chem. Int. Ed.** **2008**, 47, 955-959.

S. I. Kirin, H. P. Yennawar, M. E. Williams: "Synthesis and characterization of Cu(II) complexes with amino acid substituted di(2-pyridyl)amine ligands", **Eur. J. Inorg. Chem.** **2007**, 3686-3694.

S. I. Kirin, R. Krämer, N. Metzler-Nolte: "Nuclease and peptidase models", In: **Concepts and Models in Bioinorganic Chemistry**, H.-B. Kraatz, N. Metzler-Nolte (Eds.), Wiley-VCH, Weinheim, Germany; **2006**, 159-175.

S. I. Kirin, H.-B. Kraatz, N. Metzler-Nolte: "Systematizing structural motifs and nomenclature in 1,*n*'-disubstituted ferrocene peptides", **Chem. Soc. Rev.** **2006**, 35, 348-354.

S. I. Kirin, P. Dübon, T. Weyhermüller, E. Bill, N. Metzler-Nolte: "Amino acid and peptide bioconjugates of Cu(II) and Zn(II) complexes with a modified bis(2-picolyl) amine ligand", **Inorg. Chem.** **2005**, 44, 5405-5415.

S. I. Kirin, C. M. Happel, S. Hrubanova, T. Weyhermüller, C. Klein, N. Metzler-Nolte: "Synthesis, structure and comparison of the DNA cleavage ability of metal complexes M(II)L with the N-(2-ethoxyethanol)-bis(2-picolyl)amine ligand L (M = Co, Ni, Cu and Zn)", **Dalton Trans.** **2004**, 1201-1207.