

CURRICULUM VITAE

JEFTIĆ Jelena

5 septembre 1966

Nationality: **French and Croate**

Place of birth: **Zagreb, Croatia**

Civility : **single**

Personal address : **16 A, Boulevard Alexis Carrel, 35700 Rennes, France.**

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FORMATION ET ACTIVITES PROFESSIONNELLES

- Sept. 2000** **Professor** at *Ecole Nationale Supérieure de Chimie de Rennes*, France, (speciality *Physical, Theoretical and Analytical Chemistry and Solid State Physics and Materials*, UMR CNRS 6226 Laboratory "*Sciences Chimiques de Rennes*", Team "*Chimie Organique et Supramoléculaire*". Collaboration with Professor Thierry Benvegnu in the field of organic and physical chemistry of lipids and surfactants.
- 1999 - 2000** **Scientific Assistant** at the University of Geneva, Switzerland, in the group of Professor Andreas Hauser concerning the project TMR-TOSS (Transit and mobility of researchers: *thermal and optical spin switching*).
- 1999** **Habilitation to Direct Research** at the University of Rennes 1, France ; Jury consist of Professors Marcel Bertault, François Varret, Claude Ecolivet, Andreas Hauser, Jean-Pierre Tuchagues, Silvio Decurtins, Leo Klasinc and Jacky Evan.
- 1998 - 1999** **Assistant in teaching and research** at the University of Rennes 1, France, in the Group of Condensed Matter and Materials UMR CNRS 6626 under the direction of Professor Hervé Cailleau.
- 1997 – 1998** **Post-doctoral research** at the University of Versailles, France, Laboratory of Magnetism and Optics UMR CNRS 8634 under the direction of Professor François Varret.
- 1997** **PhD Thesis**, University of Berne, Switzerland, entitled « *The Influence of Pressure on the Thermal Equilibrium and the Relaxation Dynamics in the*

*Iron(II) Spin-Crossover System [Fe_xZn_{1-x}(ptz)₆](BF₄)₂». Jury composition: Professors Andreas Hauser and Gion Calzaferri, *note : very good**

- 1993 - 1997** **Assistant of Chemistry** at the University of Berne, Switzerland, Department of Chemistry and Biochemistry.
- 1991 – 1992** **Training course** at the University of Basel, Switzerland, under the direction of Professor John Maier.
- 1985 – 1991** **B. Sc. and M. Sc. in Chemistry**, University of Zagreb, Croatia directed by Professors Tomislav Cvitaš and Leo Klasinc and the Center of Nuclear Research in Jülich, Germany, under the direction of Professor Dieter Kley.

LANGUAGES

Mother tongue : **Croatian**

Other languages : **French, English, German** (fluently), **Suisse German** (basic knowledge)

BOURSES

Fonds National Suisse pour la Recherche : bourse post-doctorale en 1998

Rennes Metropole : Allocation d'Installation Scientifique en 2004

SELECTED PUBLICATIONS

T. Le Gall, J. Barbeau, S. Barrier, M. Berchel, L. Lemiègre, **J. Jeftić**, C. Mériadec, F. Artzner, D. R. Gill, S. C. Hyde, C. Ferec, P. Lehn, P.-A. Jaffres, T. Benvegnu, T. Montier

« Effects of a Novel Archaeal Tetraether-Based Colipid on the In Vivo Gene Transfer Activity of Two Cationic Amphiphiles »

Mol. Pharmaceutics, **2014**, *11*, 2973-2988.

J. Jeftić

« Spin Transition, Cooperative Effects under External Pressure and the High-Spin → Low-Spin Relaxation »

Advances in Chemical Science **2014**, *3*, 1-6.

J. Jeftić, M. Berchel, L. Lemiègre, C. Mériadec, F. Artzner, T. Benvegnu

« Structural, thermodynamic and kinetic properties of bolaamphiphile membranes »

European Biophysical Journal with Biophysics Letters **2013**, *42*, 124-124.

T. Benvegna, L. Lemiègre, S. Dalençon, **J. Jeftić**
« Applications of Extremophilic Archaeal Lipids in the Field of Nanocarriers for Oral/Topical Drug Delivery »
Current Biotechnology, **2013**, 2, 294-303.

J. Jeftić, M. Berchel, C. Mériadec T. Benvegna
« Small-Angle and Wide-Angle X-Ray Scattering Study of Slow Relaxation Following Phase Transitions of New Bolaamphiphiles Based on *N*-(12-Betainylamino-Dodecane)-octyl β -D-Glucofuranosiduronamide Chloride »
Spectroscopy Letters **2012**, 45, 392-403.

J. Jeftić
“Spin transition under pressure”
International Journal of Chemical Modeling, **2012**, 4, 67–75.

J. Jeftić, M. Berchel, C. Mériadec, T. Benvegna
« Slow relaxation following the thermal hysteresis of new bolaamphiphiles studied by SAXS/WAXS »
European Biophysics Journal, **2011**, 40, S79.

J. Jeftić, M. Berchel, L. Lemiègre, C. Mériadec, F. Artzner, T. Benvegna
« Structural studies of supramolecular assemblies based on new dissymmetrical bolaamphiphiles”
European Biophysical Journal **2009**, 38, S188.

M. Berchel, C. Mériadec, L. Lemiègre, F. Artzner, **J. Jeftić**, T. Benvegna
« Supramolecular Structures Based on New Bolaamphiphile Molecules Investigated by Small Angle and Wide Angle X-ray Scattering and Polarized Optical Microscopy »
Journal of Physical Chemistry B **2009**, 113, 15433-15444.

J. Jeftić
“Thermal and pressure-induced spin transition coupled to crystallographic phase transition in some Fe(II) molecular crystals”
High Pressure Research, **2009**, 29, 369-376.

M. Berchel, L. Lemiègre, S. Trépout, O. Lambert, **J. Jeftić**, T. Benvegna
“Synthesis of unsymmetrical saturated or unsaturated cationic bolaamphiphiles”
Tetrahedron Letters, **2008**, 49, 7419-7422.

M. Berchel, L. Lemiègre, **J. Jeftić**, T. Benvegna
“Synthesis of unsymmetrical spin-labelled bolaamphiphiles”
Tetrahedron Letters, **2008**, 49, 4690-4692.