

# Kristina Eleršič

## Curriculum Vitae

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### Education

- 2007–2012 **Ph.D. in Nanotechnology**, *Jožef Stefan International Postgraduate school*, Jamova cesta 39, Ljubljana, Slovenia.  
Title: Superhydrophilicity of plasma treated materials, Supervisor: Prof. Dr. Miran Mozetič
- 2001–2007 **B.Sc. in Chemistry**, *Faculty of Chemistry and Chemical Technology, University of Ljubljana*, Aškerčeva cesta 5, Ljubljana, Slovenia.  
Title: Virulent factors of *Escherichia coli* isolated from mixed infections, Supervisor: Doc. Dr. Marjanca Starčič Erjavec

### Positions

- 2007–present **Research assistant**, *Department of Surface Engineering and Optoelectronics (F4), Jožef Stefan Institute*, Ljubljana, Slovenia.
- 2005–2006 **Trainee in laboratory for analytical chemistry**, Clariant SE, Switzerland.

### Technical skills and competences

- Analytical equipment **AFM, SEM, EDS, optical microscopy, DSC, soxlet extraction, chromatography and IR.**
- Laboratory experiences **Knowledge of surface modification and decoration created by plasma or by wet chemical procedures. Surface characterization on new, not standardized materials, specially with nano drug delivery products, namely magnetic liposom formation and detection. .**
- Projects **Research on synthesis of nano wires and their application in regenerative energy cells, in progress (2011-).**  
**Development of new environmental friendly techniques for cleaning of biomedical devices, in progress (2011-).**  
**Plasma treated vascular grafts, ended (2009-2012).**  
**Synthesis and functionalisation of magnetic nano beads for early detection of prion diseases, ended (2009-2012).**  
**Research of gaseous discharges for implementation of new environmental friendly technologies for functionalisation of products in the production of composites, ended (2009-2011).**  
**International: Neuroscreen 7th WP programme, ended (2007-2011).**

## Experience

- 2010–2011 **President of Student's council**, Jozef Stefan International postgraduate school, Ljubljana, Slovenia.
- 2008–2012 **Neuroscreen European project**, Development of magnetic nanoparticles for detection of neurodegenerative diseases, results are under European patent grant.
- 2006–2007 **Vice President of IAESTE**, The International Association for the Exchange of Students for Technical Experience, Ljubljana, Slovenia.

## Organisational skills and competences

- 2009–2011 **Editor and organising committee member**, *1st and 2nd Jozef Stefan International Postgraduate School Students Conference*.
- 2007–2012 **Organising committee member**, *1st–4th ICAPT – International Conference on Advanced Plasma Technologies*.
- 2007–2012 **Organising committee member**, *1st–4th ICAPT – International Conference on Advanced Plasma Technologies*.

## Achievement

- 2009 **Patent**, *SI 23095*, Title: methods for synthesis soft-magnetic liposomes .

## Awards and Honors

- 2009 **Certificate from European Patent Academy Seminar AU11-2009**.
- 2009 **Best poster award**, Emerging field of BIO-NANOTECHNOLOGIES, 1st International Plasma Nano-science Symposium.

## Computer skills

- OS MacOS, , Linux, Windows
- Software Microsoft Office, Origin, Photoshop CS, 3ds Max

## Languages

- |          |               |                                      |
|----------|---------------|--------------------------------------|
| Slovene  | <b>Fluent</b> | <i>native language</i>               |
| English  | <b>Fluent</b> | <i>speaking, reading and writing</i> |
| German   | <b>Basic</b>  | <i>speaking, reading and writing</i> |
| Croatian | <b>Basic</b>  | <i>speaking, reading and writing</i> |

## Personal information

- Date of birth 1. April 1982
- Citizenship Slovenian (EU)
- Skills Skiing, mountain climbing, reading SciFi