

## Ksenija Radotić



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### EDUCATION

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UNIVERSITY OF BELGRADE, Belgrade, Serbia

- **D.Sc.** Biological sciences (**Plant biochemistry and biophysics**) **1994**

Faculty of biology

- **M.Sc.** Biology **1990**

Major: Biophysics

- **B.Sc.** Biology **1986**

Major: **Molecular Biology and Physiology**

### WORK EXPERIENCE

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- **Research professor** **2004-Current**

Centre for Multidisciplinary Studies (former Institute for Multidisciplinary Research), University of Belgrade, Belgrade, Serbia

- **Assistant research professor** **1999-2004**

Centre for Multidisciplinary Studies, University of Belgrade, Serbia  
Faculty of biology, University of Belgrade, Belgrade, Serbia

- **Research assistant** **1995-1999**

Centre for Multidisciplinary Studies, University of Belgrade, Serbia

### SKILLS

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- Teaching students

Molecular biophysics, Systems biophysics, Ecobiophysics

- Mentoring students

Plant biophysics/biochemistry/biotechnology

- Scientific and teaching collaborations with institutions in Europe, USA and New Zealand
- More than 60 publications in peer reviewed international journals, about 100 conference contributions including invited lectures
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## **RESEARCH INTERESTS**

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- Physiology and biophysics of plants' response to stress, with a focus on secondary metabolism, enzymatic and structural parameters of the cell wall, and the possibility of their application in the monitoring of plant and environment stress.
- Design, synthesis and application of new materials based on the plant cell walls (which makes up the bulk of waste biomass).
- Development of the application of optical spectroscopy (fluorescent, infrared) methods in analytical and diagnostic studies of plant/animal systems and food.

## **PROJECT DESIGN AND LEADERSHIP EXPERIENCE**

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- **Domestic projects**

**2001-2005** “Cellular response to pollution stress in trees. Possibility of application in monitoring of the environment”

**2006-2010** “Investigation of novel biosensors for plant monitoring and diagnostics”

**2011-Current** “Study of structure-function relationships in the plant cell wall and modifications of the wall structure by enzyme engineering”

**2011-Current** “ Synthesis, processing and characterisation of nanostructural materials for application in energetics, mechanical engineering, environmental protection and biomedicine-  
SUBPROJECT:Study and modifications of the structure of plant cell wall as a basis of the new materials for nanotechnology applications“

- **International projects**

**2001:** “Infrared microspectrometry of the plant cell walls”

“Fluorescence lifetime and spectra of lignin and related compounds”,

both projects realized at LURE, Orsay, France

**2004-2005** “New methods for the investigation of the structure of plant cell walls” France-Serbia bilateral project with Laboratory for the cellular biology from Versailles, France,

**2010-2012** “Structural anisotropy of the plant cell walls of various origin and their constituent polymers, using DP-LSM“ Hungary/Serbia bilateral project with the Institute of Plant Biology, Biological Research Center, Hungary Academy of Sciences, Szeged, Hungary

**2014-2016** „Advanced image analysis at the micron scale in biology and medicine“ Belarus/Serbia bilateral project with United Institute of Informatics Problems of the National Academy of Sciences of Belarus, Minsk, Belarus

**COST actions (European cooperation in science and technology)**

**2008-2012 FP0802** „Experimental and computational microcharacterization techniques in wood mechanics“ (MC member)

**2017-2021 CA16101** “Multi-modal imaging of forensic science evidence - tools for forensic science “ (MC member)

## **FELLOWSHIPS AND AWARDS**

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- Honor for teaching at all academic levels at the Faculty of Biology, University of Belgrade **2011**
- Grant for sabbatical in 2012, institute Scion, Rotorua, New Zealand **2012**
- Fellowship at the Department of Physics, Norwegian University of Science and Technology (NTNU), Trondheim, Norway **2012, 2014**