

CURRICULUM VITAE

Radnaa Naran, Ph.D.

CURRENT TITLE: Postdoctoral Research Associate

CONTACT INFORMATION

Botany & Plant Pathology, Purdue University
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EDUCATION

Ph.D. Organic Chemistry, Institute of Chemistry, Slovak Academy of Science,
Bratislava, Slovak Republic, 1994
B.S. and Diploma in Pharmacy, National Medical University, Ulaanbaatar, Mongolia

AWARDS

1999 Royal Society, London, Postdoctoral Fellowship
1996-1998 Japan Society for the Promotion of Science Postdoctoral Fellowship for
Foreign Researchers

RESEARCH INTERESTS

My research interest is primarily associated with chemistry of plant cell wall polysaccharides. I have gained in-depth knowledge and practical skills in polysaccharide isolation, purification, analysis and structure elucidation using HPLC, Capillary Zone Electrophoresis with LIF detection, MALDI-TOF MS, NMR-spectroscopy, chemical modification methods, use of pure cloned enzymes to generate specific carbohydrate oligomers that would allow determination of details of polymer structure. As part of the Cell Wall Genomics team, I am developing high through-put, sensitive methods to determine the fine structure of pectins and other cell-wall polysaccharides in maize and *Arabidopsis* employing electrospray and MALDI-TOF MS for mutants with defects in rhamnogalacturonan II structure. I also am working on heterologous expression of *Arabidopsis* putative β -galactosidase to determine specificity of the enzyme.

Additional skills

I worked in the field of biologically - active small molecules - antioxidants such as coumarins, flavonoids, and their glycosides. I possess a solid theoretical knowledge of the chemistry of these molecules as well as practical skills and techniques for isolation or purification of biologically-active compounds, and their structure elucidation.

EMPLOYMENT

March 2005 – present: Postdoctoral Research Associate, Botany & Plant Pathology, Purdue University, West Lafayette, IN
March 2000 – February 2005: Postdoctoral Research Associate, Biochemistry and Molecular Biology, Oklahoma State University, Stillwater, OK

1994 – 2000: Senior Research Associate, Institute of Chemistry and Chemical Technology, Ulaanbaatar, Mongolia
1990 – 1994: Graduate Assistant, Institute of Chemistry, Slovak Academy of Science, Bratislava, Slovakia
1984 – 1990: Research Assistant, Institute of Chemistry, Ulaanbaatar, Mongolia

Seminar talks given:

Jun. 2003: “Pectin-degrading activity in expanding cotton cotyledon”, Dept of Pharmacognosy, Oslo University, Norway
Aug. 2003: “Detection of RG-Lyase activity in cotton cotyledon”, 2nd International Conference on Natural Compounds, Mongolian Academy of Science, Ulaanbaatar, Mongolia

REFERENCES

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