

## Clemens PETERBAUER



### Personal details

Date of Birth:	July 16, 1967
Place of Birth:	Freistadt, OÖ
Nationality:	Austria
Spoken languages:	German, English, Spanish, Japanese (basic)
Acad. Degree:	Assoc. Prof. Dr. rer. nat.

### Academic Credentials

2010	Habilitation in Molecular Biotechnology, University of Natural Resources and Life Sciences - BOKU, Vienna
1995	Dr. rer. nat., University of Vienna, Institute of Microbiology and Genetics
1992	Mag. rer. nat., University of Vienna, Institute of Microbiology and Genetics

### Previous and Current Positions

since 2016	Associate Professor, Department of Food Sciences and Technology, BOKU
2013-2015	Deputy Head of Department of Food Sciences and Technology, BOKU
2010-2016	Senior Scientist, Department of Food Sciences and Technology, BOKU
2002-2010	University Assistant at the Institute of Food Technology, BOKU
2001-2002	Researcher at the Center of Applied Genetics, BOKU
1997-2001	Researcher at the Institute of Biochemical Technology and Microbiology, Vienna University of Technology (APART Fellowship)

## Visiting Fellowships and Awards

1998	Visiting Scientist at VTT Biotechnology, Espoo, Finland
1996-1997	Postdoc at the Department of Plant Pathology and Microbiology, Hebrew University of Jerusalem, Rehovot, Israel (Erwin-Schrödinger-Fellowship of the Austrian Science Fund FWF)
1992	Visiting Scientist at the Department of Horticultural Sciences, Cornell University, Geneva, NY (Short-term Scholarship for Scientific Research)

## Research Interest

Biochemistry of flavin-dependent carbohydrate oxidoreductases (pyranose dehydrogenase, pyranose oxidase, cellobiose dehydrogenase...). Our work aims at elucidating (i) structure-function relationships and reaction mechanisms of flavin-dependent oxidoreductases, (ii) the impact of protein matrix and post-translational modifications (glycosylation) on secretion efficiency, stability and catalysis.

In addition my group is involved in research on carbohydrate active enzymes as well as in basic and applied research on protein expression and production in Lactic Acid Bacteria.

## Funded projects (max. 5)

01/2016-12/2018	Biomolecular Technology of Proteins – BioToP – Doctoral college, FWF grant W1224; Subproject: Development of a high-throughput screening assay for oxidoreductases and peroxidases based on genetically encoded redox-sensors; 140.000 €
11/2011-09/2015	Evolution and engineering of pyranose oxidoreductases for bio-fuelcells, FWF TRP 218-B20, 220.000 €
03/2010-08/2014	Engineering of pyranose oxidoreductases for modified oxygen reactivity, FWF P22094-B11, 283.000 €
03/2006-11/2009	Synthesis of keto-sugars using pyranose dehydrogenase, FWF L 210-B11, 120.000 €
07/2006-12/2009	Multi-functional sugars by enzymatic oxidation, FFG Applied Biocatalysis, 445.000 €

## Publications

SCI-papers 72 (h-index: 29)

Books & book chapters 2

## International Cooperations (past 5 years)

Lo Gorton Lund University, Sweden

Christina Divne KTH, Sweden

Geir Mathiesen Norwegian University of Life Sciences, As, Norway

Pimchai Chaiyen Mahidol University, Bangkok, Thailand