

CURRICULUM VITAE:

Personal Information:

Name Karl-Heinz Wagner, Prof., PhD
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Date of birth Mai 30, 1971, Vienna, Austria
Citizenship Austria

Current position:

- Temporary Professor for Nutritional Sciences and Food Quality
- Study Dean Nutritional Sciences
- **Director Research Platform: “Active Ageing”**
- Vice Head of the Department of Nutritional Sciences, University of Vienna
- **Co-Leader of the Faculty Focus “Nutrition associated molecular mechanisms of ageing”**
- Emerging Field Status (Award) from 2009 at the Faculty of Life Sciences for “Oxidative Stress and Oxidative DNA Damage”
- Since 2010: Adjunct Professor at Griffith University, Australia

Education:

1989 High School Diploma
1991 – 1993 Federal Research Center of Food Analysis- and Research,
Department of Microbiology
1994/95 Military service
1994 Master thesis at the Department of Dairy Research
and Bacteriology, University of Natural Resources
and Applied Life Sciences, Vienna: “*Zur bifidogenen
Wirkung von Lactulose und Laktitol*”
1995 Graduated as Mag. rer. nat. University of Vienna
1996 – 1999 PhD studies at the Institute of Nutritional Sciences
Prof. Elmadfa „Impact of antioxidants on plant oils and fats
and their mechanism of action at different temperatures“
2004 Habilitation Titel “Lipid Oxidation in Food Substrates and Human
Metabolism and its Response to or Delay by Antioxidants: Effects of
 α -, γ - and δ -tocopherols in *in vitro* studies and human intervention
trials”

Academic appointments international and national:

1997 Full position as Assistant at the Institute of Nutritional
Sciences: co-responsibility for biochemical and cell
laboratories at the institute, *in vitro* and *in vivo* studies.

2002	Erasmus teacher exchange; Course conductor in Public Health in Kuopio, Finland
2003	Visiting Scientist in the group of Prof. Kamal-Eldin, University of Agricultural Sciences Uppsala, Department of Food Science, Division of Plant Products, Uppsala, Sweden
2004	Venia docendi for “Nutritional Sciences and Food Quality” Associate Professorship
2009	Visiting Scientist at the Heard Foundation Research Centre and Apoptosis Research Group, Griffith University and University of Queensland, Australia
2010	Adjunct Professor, Griffith University
2010	Offer for a full Professorship of Nutrition and Public Health Griffith University, Australia
2010	Shortlisted for the Chair of Human Nutrition and Metabolism, King’s College London
2011	Offer for Head in Human Nutrition, Otago University, NZ
2011	Temporary Professorship for Nutritional Sciences in Vienna

Funding ID of the last 5 years:

Currently running grant listed below emphasize the applicant’s activity and expertise in the fundamental understanding on nutrition physiology/molecular nutrition, public health issues, gerontology oxidative stress, antioxidant activities and DNA damage.

Running grants:

2013 – 2016	BIOAGE - Extension, enhancement and strengthening of established collaborations to create an international knowledge base for biomarker based research on ageing, FP7-IRSES, Applicant as PI	0.2 Mio Euro
2011 – 2014	Chemopreventive Effects of Physical Activity and Nutritional Optimization in Institutionalised Elderly - Nationalbank, PI	80.000 Euro
2010 – 2012	Bioactivity of Plant Food in Type 2 Diabetics, Ministry of Health	60.000 Euro
2011 – 2014	Research Platform “Active Ageing”, University Platform between Life Science Faculty and Center of Sport Science, PI	585.000 Euro
2011 – 2013	Doctoral Program, Bioactivity Profiling and Metabolism, Partner	0.2 Mio Euro
2009 – 2013	“Physiological effects of bile pigments”, Stand alone project Austrian Science Fund, Applicant as PI	330.000 Euro
2009 – 2013	“Effect of a lifestyle intervention on risk factors for type-2diabetes complication” (DIAPLANT) EU – FP7 Border cross project, Applicant as PI	520.000 Euro
2008 – 2014	Various studies on oxidative stress and DNA stability of foods and food compounds as CO-PI together with the WG Prof. Knasmüller, Medical University Vienna	80.000 Euro

Expired grant (most important of the last years):

2008 – 2011	“A healthy diet and Sustainability”, Austrian Science Fund, PROVISION, CO-PI	296.000 Euro
2006 – 2010	DOUBLEFRESH: Towards a new generation of healthier and tastier ready-to-eat meals with fresh ingredients (as partner, WG-leader), Framework 6: Priority 5 Food Quality and Safety	220.000 Euro for our group
2006 – 2008	“Risk Assessment of Ironman Triathlon Participants: Genome Stability, Oxidative, Muscular and Systemic Stress”, Stand alone project Austrian Science Fund, Applicant as PI	205.000 Euro
2006 – 2008	“Impact of plant oils on patients with Type-2-diabetes” EU – FP6 Border cross project (INTERREG 3A) with Slovakia, Applicant as PI	305.000 Euro
2006 – 2008	“Safety Assessment of Phytosterol Oxidation Products” University Internal Grants in cooperation with University of Helsinki, Applicant as PI	50.000 Euro
2004-2007	Monitoring of trans-fatty acids in foods and the risk assessment of the trans-fatty acid intake of adolescents, Federal Ministry of Health, Applicant as PI	40.000 Euro

Submitted grants:

At the moment grants for more than 2 Mio Euro are submitted.

Awards:

2011	Distinguished Visiting Researcher Award, Griffith University, Australia
2010	Leader University Research Platform
2009	Awarded to participate in the ESCUDA committee and the HUMN network
2009	Awarded with Emerging Field Status (Title: Oxidative Stress and Oxidative DNA Damage) at Faculty of Life Sciences, University of Vienna
2007-2009	Several Infrastructure grants of the University of Vienna
2008/11	Several Poster and PhD prizes for my working group
2006	Hochschuljubiläumsfonds for Bilirubin Research

Hosting of incoming students (PhD or Post docs):

2012 –	Co supervision of 3 PhD students from Australia
2009 –	Master students from Germany, Sweden, ...
2005 – 2006, 2008	PhD student from University of Queensland, Australia
2006 – 2007	Three PhD students from Germany and France
2008 – 2009	One PhD student from Sweden and one from U.K.

Teaching activities (PhD students of the last 5 years)

Name of the student	Sex	Research topic	Titel of the thesis	Number of publications
MÖLZER Christine (2012)	Female	Genotoxicity, mutagenicity, bile pigments	In vitro anti-mutagenic, antioxidant and anti- genotoxic properties of bile pigments	8
MÜLLNER Elisabeth (2013)	Female	Diabetes mellitus Type 2, DNA damage	DNA damage and genomic stability in diabetic and non- diabetic individuals and the impact of a dietary intervention	5
NICS Lukas (2013)	Male	Biomarker development, Clinical trials,	Metabolite studies in-vitro and in-vivo: From preclinical evaluation to clinical trials	8
REICHHOLD Stefanie (2009)	Female	Physical activity, DNA damage, Mutations	Effects of an Ironman triathlon on DNA stability	8
NEUBAUER Oliver (2009)	Male	Physical activity, DNA damage, Mutations	Acute Stress and Recovery Responses to an Ironman Triathlon: Oxidative Stress, Antioxidant and Inflammatory Changes and their Relevance for DNA Stability	11
KOSCHUTNIG Karin (2009)	Female	Ames Test, Mutagenicity, phytosterol oxidation products	Safety assessment of phytosterol oxidation products	3
ONGOING				
WALLNER Marlies (submitted)	Female	Chromosomal Damage, Hyperbilirubinaemia, Oxidative Stress, Lipid metabolism	Mechanisms of health promoting effects by Bilirubin in Humans	11
KANZLER Sonja	Female	Food Analysis, Public Health,	Evaluation and improvement of the nutritional quality of ready-to-eat meals in Europe	2 submitted

FRANZKE Bernhard	Male	Ageing, DNA damage, chromosomal damage	Active Ageing - Effect of a lifestyle intervention on mutations and DNA damage in institutionalized elderly (WT)	> 4 planned
TOSEVSKA Anela	Female	Ageing, telomere biology	Active Ageing - Effect of a lifestyle intervention on telomere length and – oxidation in institutionalized elderly (WT)	> 4 planned
GRINDEL Annemarie	Female	Diabetes mellitus Type 2, DNA damage	Molecular and clinical effects on functional foods on diabetes and cardiovascular diseases (WT)	> 4 planned
RÜCKERL Irene (in cooperation with VETMED)	Female	Food safety, Listeria, dairy products	Epidemiological analysis of Listeria spp. contamination scenarios in the dairy chain (WT)	> 4 planned
KREUML Michaela (in cooperation with UMBA)	Female	Saponins, waste water, toxicology, quantification	Quantifizierung von Saponinen in Oberflächen- und Abwasserproben mittels LC-MS/MS und deren Einfluss auf die Schaumbildung und toxikologische Bedeutung (WT)	> 4 planned

Organisation of Scientific Meetings: Main Responsibility

- Next ICMAA (International Conference on Mechanisms of Antimutagens and Anticarcinogens) conference in Vienna, September 2014, 300 participants expected
- 1st Scientific Meeting of the Research Platform “Active Ageing”, - Active Ageing – Cells meets Function. An integrative approach in Research on Ageing. Vienna, 9th April 2013, 200 participants
- Scientific Symposium Austrian Society of Toxicology (ASTOX) and Emerging Field “Oxidative Stress and DNA Stability” (ANTIOX), Vienna, 24.-25. 11 2011, 160 participants
- Lifestyle and Oxidative DNA Stability, 24 Tagung der Gesellschaft für Umwelt

- und Mutationsforschung, Wien, 17.-21. Feb. 2009, 150 participants
- Symposium Vienna Research Platform of Nutrition and Food Sciences, 25.04.2008, Vienna, 150 participants
 - Physiological and Molecular Effects of Bioactive Food Compounds. COST 926/927 Joint Meeting, Wien, 11.-14. 10 2006, 260 participants
 - 17th Nutrition Congress 2001, IUNS, Wien, August 2001, 3600 participants
- Co-Organiser of the last 5 meetings of the Austrian Nutrition Society, 100 -150 participants/meeting

Teaching: Current position: Study Dean Nutritional Sciences since October 2008 (Responsibility for 5 different curricula and 2.800 students)

Since 1997	Lab course on Nutrition (basic), 3h*, (4 courses/semester)
Since 2001	Lecture on Methodology in Nutritional Research (advanced), 3h,
Since 2002	Lab course on Nutrition Physiology (advanced) 5h, (2-3 courses/semester)
Since 2002	Lecture on Basics in Nutrition, 3h
Since 2002	Lecture on Advanced Nutrition Physiology, 3 h
Since 2003	Seminar on nutrition (advanced), 2h
Since 2007	Lecture on Safety Assessment of Foods (BSC. Program), 3 ECTS Lecture on Basics in Nutritional Sciences: Energy Metabolism and Macronutrients, 3 ECTS, average 400 students
Since 2007	Seminar on Food Safety (Master), 2 ECTS Lecture on Quality of Foods of Plant Origin (Master), 3 ECTS
2008	Lecture on Literature Research in Nutrition Research, 3 ECTS
Teaching average:	10 Semester hours (approx. 160 full hours/semester), approx. 100 students/lecture

* 1h is equivalent to 15h per semester

- Around 400 exams/semester and approx. 50 master exams/semester (Examiner or Chairman) – recent evaluation of our faculty: 4021 exams in the last 5 years
- Altogether more than 300 Master students and 15 PhD students supervised so far
- Supervisor of around 25 Master students/year and more than 8 PhD students at the moment

Reviewer/Editorial:

- Annals Nutrition Metabolism
- European Journal of Lipid Science and Technology
- Journal of Agricultural and Food Chemistry
- European Journal of Food Science and Technology
- European Journal of Clinical Nutrition

- European Journal of Nutrition
- Italian Journal of Nutrition
- Planta
- Journal of Dermatology
- Molecular Nutrition and Food Research
- Food Chemical Toxicology
- Free Radical Research
- Journal of the American Oil Chemists Society
- Trends in Food Science and Technology
- Mutagenesis
- Mutation Research
 - Slovakian Academy of Science
 - National Institute of Health
 - Austrian Science Fund
 - COST Network

Several Guest editorials

Member:

- Austrian Nutrition Society
- American Oil Chemist's Society: Member-at-Large of the European Section since 2004 (since 2006 vice president European section)
- European Academy of Nutritional Sciences (EANS)
- Free Radical Research
- Nordic Lipidforum
- Austrian Toxicological Society
- Gesellschaft für Umwelt und Mutationsforschung (Society of Environment and Mutation Research)
- Scientific Board of the Association of Nutritional Scientists in Austria

Field of activities: Organisation, Leading experience

- Leading a working group of approx. 25 members in 2 continents (Europe and Australia)
- Co-Responsibility for biochemical and cell laboratories at the Department (Biochemical labs, analytical labs, cell labs) of Nutritional Sciences
- Responsible for clinical trials, cell studies and projects
- Study Dean Nutritional Sciences
- Vice-Head Department of nutritional Sciences
- Member of the Study Commission Nutritional Sciences
- Member of the Faculty Board (Fakultätskonferenz)
- Supervision of national and international students in particular for analytical research activities
- Submission of research projects

- Supervision of master and PhD students
- Responsible for radiation protection at the Department
- Safety representative of the Department
- Head Emerging Field “Oxidative Stress and Oxidative DNA Damage”
- Member of the Joint Study Commission
- Member of the Scientific PhD board of the Faculty for Nutritional Sciences

Main Research activities:

- Human intervention trials
- Biomarker to predict the risk of nutrition dependent diseases such as diabetes, CVD, cancer
- Biofunctionality of foods/Food Biochemistry
- Food quality: Shelf life, Influence by several heat treatments, fortification, functionality
- Safety assessment of food and food components: Genotoxicity, mutagenicity, fatty acid quality (Trans-Fatty acids), phytosterol-oxidations products
- Antioxidants in general: Physiological aspects, risk assessment
- Radical metabolism and its impact by: several interventions (food based), physical activities (endurance or resistance exercise based) etc.
- Lipid metabolism
- Gen-Tox., and Mutagenicity, Oxidative DNA Stability
- Molecular marker, Gene expression, Protein expression

Selected co-operations International:

Prof. Berg and König, Universität Freiburg (D); Prof. Kamal-Eldin, University of Agricultural Sciences Uppsala (S); Prof. Sebekova, Slovak Medical University (Sk), Prof. Anklam, European Commission; Joint Research Centre, ISPRA, (I); Prof. Piironen, University of Helsinki, (Fin); Prof. Coombes University of Queensland (Aus);, Dr. Ulphard Thoden van Velzen, Wageningen UR Agrotechnology (Ned); Prof. Knasmüller; Medical University of Vienna (A);

Prof. H. Poulsen, Central Hospital, Copenhagen (Den)

Prof. O. Arouma, Tourou College, New York (USA)

Prof. M. Fenech, CSIRO, Adelaide (Aus)

Prof. L. Otterbein, Prof. B. Wegiel Harvard University, Boston (USA)

Dr. Bulmer and Prof. Neuzil, Griffith University (Aus)

Prof. David Cameron Smith, University of Auckland (NZ)

Prof. Lyn Griffith, Griffiths University, Australia

Selected co-operations National:

Cooperation partners in the following institutions:

Univ. Vienna – Faculty of Life Sciences, Faculty of Chemistry, Centre of Sport Science,

Medical University of Vienna: Inst. of Cancer Research, Radiopharmacy group, Central lab of the General Hospital

Selected Skills:

- Analytic: HPLC, GC, ELISA, RIA, PCR, cell cultures, mutagenicity (bacteria), blood, blood cells, food area, planning animal studies and gene microarray
- Radiation protection agent education
- Safety agent education
- Co-ordination of the technical and scientific personnel in the labs
- Designing of studies, experience with the ethical commission, statistics (SPSS), human intervention trials,
- PC: Word, Excel, Power Point, several statistic and graphic programs
- Language: German, English
- Experiences in planning and execution of meetings and conferences
- Nutritional surveys to determine preferences of food intake