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Design and Consumer Behavior
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Resume

Assistant professor of flavor chemistry and bioflavor production at the Section of Food Design and Consumer Behavior (KU-FOOD) with over 9 years of experience in the field. I was among the first to show evidence of a yeast carbon-sulfur β -lyase enzyme can release polyfunctional thiols (tropical fruit attributes) from cysteine conjugated precursors. Furthermore, I have successfully used quantitative genetics to identify new proteins involved in production of solvent-like off-flavor (ethyl acetate), fruity banana flavor (isoamyl acetate), and rose flavor (phenylethyl acetate) in brewing yeast. Over the course of my research, I have installed GC-MS, GC-FID, and HPLC equipment and implemented analytical chemistry methods for flavor analysis.

Education

25.09.2017 PhD in Biochemistry and Biotechnology, Katholieke Universiteit Leuven.
30.11.2009 M.Sc. in Biochemistry, University of Copenhagen. Master thesis at Flinders University

Employment

Previous positions

Apr 2021 – Jul 2022 Postdoctoral researcher, Department of Biology, University of Copenhagen
Jan 2019 – Mar 2021 Postdoctoral researcher, Population genomics and complex traits, Université Côte d'Azur, CNRS, INSERM, IRCAN.
Oct 2017 – Dec 2018 Postdoctoral researcher for Ab InBev, Laboratory for Molecular Cell Biology, Katholieke Universiteit Leuven.
Oct 2011 – Oct 2017 PhD student, Laboratory for Molecular Cell Biology, Katholieke Universiteit Leuven.
Mar 2011 – Oct 2011 Technical assistant, Wine Innovation Group, Chr. Hansen A/S.
Jan 2010 – Dec 2010 Technical officer, Flavor-active yeast group, The Australian Wine Research Institute.
Feb 2007 – Jul 2008 Project assistant, DanDrit Biotech A/S, Denmark.
May 2006 - Aug 2006 Scientific assistant, Clinical Research Center 136, Hvidovre University Hospital

Peer review activity

Since May 2019, I am Review Editor for Frontiers in Microbiology in the Food Microbiology section. In addition, I have also reviewed papers in Nature Communications, Frontiers in Genetics, Applied Microbiology and Biotechnology, Microbial Cell Factories and Antonie van Leeuwenhoek.

Bioinformatic and statistical training

VIB BITS (Belgium). "Hands-on introduction to NGS variant analysis", "NGS data analysis", "Introduction to Linux for bioinformatics", "Hands-on introduction to ChIP-Seq analysis", "Gentle hands-on introduction to Python programming", "Basic statistics in R". Carlsberg research center (Denmark). Bioinformatical training by Dr. Stinus Lindgreen for Bayesian phylogenetic analysis during my PhD. KU Leuven Lstat (Belgium). "Essential tools for R", "Regression and analysis of variance, applications with R", "Fundamental statistical methods", "Cluster analysis, principal component analysis and exploratory factor analysis with SAS, SPSS and R" Copenhagen University (Denmark). "Introduction to bioinformatics and bioinformatic tools" (Biochemistry master's course)