

Basic information

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Education:

- Ph.D: Bioanalytical Chemistry-Natural Products Chemistry Jacobs University; Bremen, Germany; School of Engineering and Science (*Jan. 2008- May 2011*)

Ph.D thesis title: Profile of Polyphenols in a European Diet, Supervisor: Prof. Dr. Nikolai Kuhnert

- MS.c : Marine Biology, Azad University of Tehran, Iran; School of Science and Technology (*Oct. 2000-Oct. 2003*)
- BS.c : Microbiology, Alzahra University, Tehran, Iran; School of fundamental Sciences (*Oct. 1996- Feb. 2000*)
- High School Diploma: Mathematics and Physics, Hadaf High School, Tehran Iran (*Oct.1992- June1995*)

Awards:

3 years full Ph.D scholarship from Jacobs University Bremen, Germany

Work Experience:

- Jacobs University Bremen, School of Engineering and Science, worked on isolation and structural elucidation of antiviral compound from microalgae (*Oct. 2005- Jan. 2008*)
- Advisor of Microbial Enhanced Oil Recovery, Research Institute of Petroleum Industry (RIPI), Department of Exploration and Production, Tehran, Iran (*Jan. 2005- Sep. 2005*)
- Microbiology Laboratory Supervisor, Kamchin Industries, Tehran, Iran (*Dec. 2001- Dec. 2004*)
- Web site administrator, School of Fundamental Sciences, Alzahra University, Tehran, Iran (*Oct. 1998- Feb. 2000*)

Experimental Techniques

- Analytical Laboratory techniques:
 - HPLC , UPLC, GC, TLC
 - Photospectroscopy
 - Mass spectrometry : Ion trap & TOF mass spectrometers

- Molecular biology & Biochemistry laboratory techniques:
 - SDS Gel Electrophoresis,
 - Different column chromatography techniques,
 - Ultra centrifugation,
 - Liophilization
 - Optical Spectrophotometry
 - Colorimetric techniques
 - Enzymatic treatments
 - RNA & DNA purification
 - PCR
 - ELIZA
 - Western Blot
 - Northern Blot
 - Biological Extractions
 - Cell culture
 - Protein Expression
 - Protein and carbohydrate purification and measurements

- Microbiology laboratory techniques:
 - Media preparation
 - Microbial culture preparation
 - Microorganisms isolation and identification
 - Virus culture, propagation and counting
 - Microscopy: Phase contrast microscope, Polarized microscope , Fluorescence microscope

Publications

- 1- Nikolai Kuhnert, [Farnoosh Dairpoosh](#), Rakesh Jaiswal, Marius Matei, Agnieszka Golon, Hany Nour, Hande Karaköse & Nadim Hourani, **Hill coefficients of dietary polyphenolic enzyme inhibitors: can beneficial health effects of dietary polyphenols be explained by allosteric enzyme denaturing?** Journal of Chemical Biology, Volume 4, Number 3, 109-116, DOI: 10.1007/s12154-011-0055-9

- 2- [Farnoosh Dairpoosh](#), Dileep Dhakhal & Nikolai Kuhnert, **Effects of long term freezing storage on the polyphenolic content of vegetable and fruit extracts.** Submitted to: Journal of Food Chemistry

- 3- Farnoosh Dairpoosh, Abhinandan Sherestha & Nikolai Kuhnert, **Investigation of polyphenolic compounds in Mango**, to be submitted for the journal of food composition, manuscript under preparation
- 4- Farnoosh Dairpoosh, Abhinandan Sherestha, Anja Müller, Mathias Witt and Nikolai Kuhnert, **Cistus incanus a janus faced plant: Profiling chromatographically well resolved polyphenolic by LC-MS and unresolved phenolic complex mixture by FT-IRC mass spectrometry**, to be submitted for the journal of phytochemistry, manuscript under preparation
- 5- Farnoosh Dairpoosh, Abhinandan Sherestha, Anja Müller and Nikolai Kuhnert, **Investigation of polyphenolic compounds in Mango**, to be submitted for the journal of food composition, manuscript under preparation
- 6- Nikolai Kuhnert, Farnoosh Dairpoosh, **High resolution mass spectrometry for the interpretation of processed foods** to be submitted to the journal of foods and function, manuscript under preparation
- 7- Book: “Plant Polyphenols: Chemical properties, Biological Activities and Analysis” , Under press, Tehran 2011
- 8- Ph.D thesis : Profile of Polyphenols in a European Diet , School of Engineering and Science, Jacobs University Bremen, Germany

Poster Presentations :

- 1- Profile of polyphenols in a european diet , Farnoosh Dairpoosh, Nikolai Kuhnert, Anja Müller, 18th International Mass Spectrometry Conference, Bremen, Germany, 30th August- 4th September, 2009
- 2- Identification of major chemical compounds of green tea (*Camellia Sinensis*) from different origins, Kianoosh Dairpoosh, Farnoosh Dairpoosh, Nikolai Kuhnert, Anja Mueller, 18th International Mass Spectrometry Conference, Bremen, Germany, 30th August- 4th September, 2009
- 3- Identification of the chemical compounds in the aqueous extract of the flowers of Iranian Borage (*Echium amoenum*). Farnoosh Dairpoosh, Abhinandan Shrestha, Nikolai Kuhner and Anja Mueller, 18th International Mass Spectrometry Conference, Bremen, Germany, 30th August- 4th September, 2009

Research Interests:

- Analytical biochemistry; Screening and method development
- Pharmaceutical analysis, drug research and discovery
- Bio molecular interactions and enzyme inhibitors
- Metabolites and metabolomics
- Toxicology and Pharmacognosy
- Proteomic profiling

- Biopharmaceuticals and marker discovery
- Bionanotechnology
- Food chemistry
- Marine Biotechnology

Computer Skills:

- Microsoft Office
- Graphical Statistical Program GMP
- Chemdraw
- Chemistry data bases such as SciFinder
- Mass banks
- Have experience in programming with C++ and Basic

Languages:

- Persian: Mother tongue
- English: Fluent
- Arabic: Working knowledge
- German: Working knowledge

Personal Abilities :

- * Work discipline, organizational skills, communication skills, attention to details and ability to work with minimum of supervision.
- * Ability to work within a team environment and demonstrating personal leadership attributes.
- * Ability to work well under pressure in an independent manner to a dynamic production schedule.
- * Ability to communicate effectively both verbally and written, in English.
- * Demonstrating personal leadership attributes incorporating an ongoing commitment to technical/professional development and continuous learning.

Referees :

- **Professor Dr. Nikolai Kuhnert**
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