

Basic information

Full Name: Farnoosh Dairpoosh

Permanent Email : F732044@gmail.com

Tel: +49 176 207 045 02

Mailing address:

Technische Biochemie
Campus A1 5
Universität des Saarlandes
66123 Saarbrücken, Germany

**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:

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

Work Experience:

- Postdoctoral Fellow, Biochemical Engineering, Universität des Saarlandes, Analysis of metabolites in mammalian cell cultures using LC-MS (Nov. 2012 till present)
- 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- **What is under the hump? Mass spectrometry based analysis of complex mixtures in processed food - lessons from the characterisation of black tea thearubigins, coffee**

melanoidines and caramel. [Nikolai Kuhnert](#), [Farnoosh Dairpoosh](#), [Ghada Yassin](#), [Agnieszka Golon](#), [Rakesh Jaiswal](#) Jacobs University Bremen, Chemistry, Campusring 8, 28759 Bremen, Germany. Food & function 06/2013; DOI:10.1039/c3fo30385c
Source: [PubMed](#)

- 3- [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 under review
- 4- [Farnoosh Dairpoosh](#), Hossein Hashempour, Alireza Ghassempour, Nikolai Kuhnert, **Identification of New Polyphenolic Secondary Metabolites in Pear.** Submitted to: Journal of Agriculture and Food chemistry.
- 5- [Farnoosh Dairpoosh](#), Abhinandan Sherestha & Nikolai Kuhnert, **Investigation of polyphenolic compounds in Mango**, to be submitted for the journal of food composition, manuscript under preparation
- 6- [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
- 7- [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
- 8- [Farnoosh Dairpoosh](#) & Nikolai Kuhnert, **Identification of New Polyphenolic Secondary Metabolites in Strawberry.** To be Submitted to: Journal of Food composition and analysis. Manuscript under preparation
- 9- Book: "Plant Polyphenols: Chemical properties, Biological Activities and Analysis" , Under press, Tehran 2011
- 10- Ph.D thesis : Profile of Polyphenols in a European Diet , School of Engineering and Science, Jacobs University Bremen, Germany

Poster

- 1- Profile of polyphenols in a european diet , Farnoosh Dairpoosh,

- Presentations :** 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**
Campus ring I , Research III, 28759, Bremen, Germany
Email: n.kuhnert@jacobs-university.de
Tel: +49 421 200 3120
- **Professor Dr. Roland Benz**
Campus ring I, Research II, 28759, Bremen, Germany
Email: r.benz@jacobs-university.de
Tel: +49 421 200 3151
- **Professor Dr. Mohamed El-Shazly**
Department of Pharmacognosy and Natural products Chemistry,
Faculty of Pharmacy, Ain Shams University, Cairo, Egypt
Email: mohamed.elshazly@pharm.asu.edu.eg
- **Professor Dr. S. Mohamad Reza Fatemi**
Faculty of Marine Science and Technology,
Science and Research Branch, I. Azad University,
Hesarak, Tehran, IRAN.
Email: reza_fatemi@hotmail.com
Tel: +98 21 22075711