



BAGHER AMIRHEIDARI

PharmD, PhD.

Assistant Professor of
Biotechnology

Director of International
Relations

CONTACT

ADDRESS

Faculty of Pharmacy, Medical
University Campus, Haft-Bagh
Highway, Kerman, Iran.

Post Code 76169-13555

E-MAILs

b_amirheidari@kmu.ac.ir
baheidari@hotmail.com

PHONE

Tel: +98 (34) 31320 5815

Fax: +98 (34) 31320 5830

INSTAGRAM

b.amirheidari

Personal Information

Surname: **Amirheidari**

Forename: **Bagher**

Gender: Male

Marital Status: Married having two children

Nationality: Iranian

Languages: Farsi (Native), English (Fluent speaker)

Date and Place of Birth: 24-09-1967, Jiroft, Iran.

Qualifications

- PhD in Biotechnology, the University of Manchester, Manchester, UK. (2007)
Research Project: [Calcium-Dependent Antibiotics from *Streptomyces coelicolor*;
Directed Biosynthesis and Mechanistic Studies]
- Doctor of Pharmacy (Pharm D), Kerman University of Medical Sciences, Kerman,
Iran. (1994) Research Project: [Phytochemistry of the medicinal herb *Teucrium
polium*]

Awards and Achievements

- Outstanding Entrepreneur, Kerman University of Medical Sciences, Kerman , Iran
(2016)
- Outstanding Researcher, Kerman University of Medical Sciences, Kerman, Iran. (2008)
- Runner-up, Final-Year PhD Symposium, the University of Manchester, Manchester,
UK. (2006)
- PhD Scholarship, Ministry of Health and Medical Education, I. R. Iran. (2000)

Training and Workshops

- Transcriptome Analysis on NGS data, Kerman University of Medical Sciences,
Kerman, Iran (2019)
- Production of Monoclonal Antibodies, Ibn Sina Institute, Tehran, Iran (2009)
- Personal Knowledge Management, Bonyad Shahid, Kerman, Iran (2008)
- Lesson Plan, Kerman University of Medical Sciences, Kerman, Iran (2008)
- Research Methodology (Workshop), Kerman University of Medical Sciences, Kerman,
Iran. (2008)
- Teaching in Higher Education (Workshop), the University of Manchester, Manchester,
UK. (2007)
- Scientific Writing, UMIST, Manchester, UK. (2004)
- Introduction to Research, UMIST, Manchester, UK. (2003)
- MSc Taught Courses in Biotechnology, UMIST, Manchester, UK. (2002)
- Basic Management, Management Training Centre, Kerman, Iran. (1997)
- Pharmaceutical Industry, Daroupakhsh Pharm. Co., Tehran, Iran. (1993)

Research Interests

- Genetic Analyses at Genome and Transcriptome levels
- Biological activity of Metal-Based Complexes
- Isolation and identification of antibiotic-producing bacteria from Iranian soil
- Isotope-labeling of amino acids as probes for studying biochemical pathways
- Precursor-Directed Biosynthesis (PDB) of microbial secondary metabolites
- Down-stream processing of microbial natural products
- Eukaryotic cell culture and purification and application of natural products
- Studying biochemical pathways of microbial secondary metabolites
- Immobilization of bacterial cells for continuous culture and metabolite production

Work Experience

Teaching

- Various Courses for Biotechnology PhD students (2017-Present)
- Man-made disasters for PhD students (2016-Present)
- Crisis Management in Disaster and Emergencies for PhD students (2016-Present)
- Applications of bacteria in biotechnology for Bacteriology (PhD) students (2012 – 2015)
- Biotechnology and its application in parasitology for Parasitology (PhD) students (2010-2015)
- Basics of Biology for Toxicology (MSc) students (2011 -present)
- Environmental Biotechnology for Health (BSc) students (2010-2016)
- Cell and Tissue Culture for Pharmacy (Pharm. D) students (2009 – present)
- Biotechnology for Pharmacy (Pharm D) students (2008 – present)
- Biological products for Pharmacy (Pharm. D) students, 2008 – present
- Biotechnology for PhD students of Parasitology (2008 – present)
- Pharmacy practice (cardiovascular) for Pharmacy (Pharm. D) students (2008 – present)
- Learning styles workshop, Faculty of Pharmacy, Kerman, Iran, 2009

Public Sector

- Director, International Relations, Kerman University of Medical Sciences, Kerman, Iran. (2015-Present)
- Member, Strategic Board of Pharmaceutical Research Network, Ministry of Health and Medical Education, Tehran, Iran, (2001-Present)
- Dean, Faculty of Pharmacy, Kerman University of Medical Sciences, Kerman, Iran. (2009-2016)
- Chairman, 15th Seminar of Iranian Pharmacy Students, Kerman, Iran. (Nov 2010)
- Head, Teaching Evaluation Office, Education Development Center, Kerman University of Medical Sciences, Kerman, Iran. (2008 - 2009)

Public Sector

- Executive Secretary, 11th Iranian Pharmaceutical Sciences Conference (IPSC2008), Kerman, Iran, Aug 18-21, 2008.
- Assistant professor of Biotechnology, Faculty of Pharmacy, Kerman, Iran. (2008 – Present)
- Chair of Scientific Committee, Iranian Islamic Students' Association in the UK and Ireland (ISA-UK). (2003-2004)
- Manager of No 1 Teaching Pharmacy, Kerman University of Medical Sciences, Kerman, Iran. (2001 -2002)
- Manager of Food and Drug Administration, Kerman University of Medical Sciences, Kerman, Iran. (1999-2001)
- Vice Manager, Insurance Organization for Medical Services, Kerman, Iran. (1996-1999)

Private Sector

- Secretary, Kerman Pharmaceutical Association, Kerman, Iran. (1999-2001)
- Founder, DrAmirheidari Pharmacy, Ekhtyarabad, Kerman, Iran. (1996-1998)
- Pharmacist, ArdjomandHospital, Kerman, Iran. (1994-1996)

Memberships

- Iran Pharmaceutical Association, Membership Number: 3848
- IRI-Medical Council, Membership Number: D-4794

Selected Publications

- Amirmohammadi, F., Bandani, A., **Amirheidari, B.** and Sabahi, G. Effect of pederin on activity of digestive and detoxifying enzymes of *Ephestia kuehniella* (Lep: Pyralidae) and *Tribolium confusum* (Col: Tenebrionidae). *J. Crop Prot.* 2019, 8 (1): 45-55
- Anjomshoa M, Torkzadeh-Mahani M, Sahihi M, **Amirheidari B.** Tris-chelated complexes of nickel(II) with bipyridine derivatives: DNA binding and cleavage, BSA binding, molecular docking, and cytotoxicity. *Journal of Biomolecular Structure and Dynamics*; 2018, DOI: 10.1080/07391102.2018.1534700
- Mohammadi-Sardoo M, Mandegary A, Nabiuni M, Nematollahi-Mahani N, **Amirheidari B.** Mancozeb. Induces testicular dysfunction through oxidative stress and apoptosis: Protective role of N-acetylcysteine antioxidant. *Toxicology and Industrial Health*; 2018, 34(11) 798–811

Selected Publications

- **Amir Heidari B**, Badinloo Sh, Ohadi M, Dehghan Noudeh Gh. Bioencapsulation of Biosurfactant-Producing *Bacillus subtilis* (PTCC 1023) in Alginate Beads. *Jundishapur J Nat Pharm Prod*; 2016, 11(4): e33935
- Reza Beigi Davarani E, Mahmoudvand H, Jamshidi E, Jahani Y, **Amirheidari B**, Borhaninejad VR. Self-medication among health staff: A cross sectional study of Kerman Province, Iran. *Der Pharmacia Lettre*; 2016, 8(12):221-228
- Ameri A, Shakibaie M, Ameri A, Faramarzi M, **Amir Heidari B**, Forootanfar H. Photocatalytic decolorization of bromothymol blue using biogenic selenium nanoparticles synthesized by terrestrial actinomycete *Streptomyces griseobrunneus* strain FSHH12, *Desalination and Water Treatment*; 2015, 5(45): 21552-21563
- Eftekhari Moghaddam H, Kheirkhah B, **Amirheidari B**. A Comparison between the Molecular Identity of *Mycoplasma Hominis* in Urine Samples of Patients with Urinary Tract Infections and Similar Strains Available in GenBank. *J Babol Univ Med Sci*; 2015, 17(10):67-73
- **Amirheidari B**, Seifi M, Abaszadeh M. Evaluation of magnetically recyclable nano-Fe₃O₄ as a green catalyst for the synthesis of mono- and bistetrahydro-4H-chromene and mono and bis 1,4-dihydropyridine derivatives. *Res Chem Intermed*; 2016, 42(4):3413–3423
- Mohammadi-SardooM, Nabiuni M, **Amirheidari B**, Mandegary A. Structure and function of blood-testis barrier and its role in damages induced by environmental contaminants. *IranJPP*; 2015, 1(4):194-202
- Ohadi M, **Amir-Heidari B**, Moshafi MH, Mirparizi A, Basir M, Dehghan-Noudeh G. Encapsulation of Biosurfactant-Producing *Bacillus licheniformis* (PTCC 1320) in Alginate Beads. *Biotechnology*; 2014, 13(5):239-244
- Soukhtanloo M, Talebian E, Golchin M, Mohammadi M, **Amirheidari B**. Production and Characterization of Monoclonal Antibodies against Aflatoxin B. *Journal of Immunoassay and Immunochemistry*; 2014, 35(4):335-343
- Mandegary A, Torshabi M, Seyedabadi M, **Amirheidari B**, Sharif E, Ghahremani MH. Indomethacin-Enhanced Anticancer Effect of Arsenic Trioxide in A549 Cell Line: Involvement of Apoptosis and Phospho-ERK and p38 MAPK Pathways. *BioMed Research International*; 2013, 2013(237543)
- Forootanfar H, Adeli-Sardou M, Nikkhoo M, Mehrabani M, **Amirheidari B**, Shahverdi A, Shakibaie M. Antioxidant and cytotoxic effect of biologically synthesized selenium nanoparticles in comparison to selenium dioxide. *Journal of Trace Elements in Medicine and Biology*; 2013, 28(1):75-79
- Sharififar F, Dehghan-Nudeh G, Raeiat Z, **Amirheidari B**, Moshrefi M, Purhemati A. Tyrosinase Inhibitory Activity of Major Fractions of *Quercus Infectoria* Galls. *Pharmacognosy Communications*; 2012, 3(1):21-26

Selected Publications

- Mandegary A, Sezavar M, Saeedi A, **Amirheidari B**, Naghibi B. Oxidative stress induced in the workers of natural gas refineries, no role for GSTM1 and GSTT1 polymorphisms, *Human and Experimental Toxicology*; 2012, 31(12):1271-79
- **Amir-Heidari B**, Thirlway J, Micklefield J. Directed Biosynthesis of Lipopeptide Antibiotics Containing Tryptophan Analogues. *Organic and Biomolecular Chemistry*; 2008, 6(6):975-978. (Featuring on the front cover)
- Powell A, Borg M, **Amir-Heidari B**, Neary JM, Thirlway J, Wilkinson B, Smith CP, Micklefield J. Engineered Biosynthesis of Nonribosomal Lipopeptide Antibiotics with Modified Fatty Acid Side Chains. *Journal of the American Chemical Society*; 2007, 129(49):15182-15191
- **Amir-Heidari B**, Micklefield J. NMR Confirmation that Tryptophan Dehydrogenation Occurs with SynStereochemistry During the Biosynthesis of CDA in *Streptomyces coelicolor*. *The Journal of Organic Chemistry*; 2007, 72(23): 8950-8953
- **Amir-Heidari B**, Thirlway J, Micklefield J. Stereochemical Course of Tryptophan Dehydrogenation during Biosynthesis of the Calcium-Dependent Lipopeptide Antibiotics. *Organic Letters*; 2007, 9(8):1513-1516.

Conference abstracts and Lectures

- Elham Talebian, Bagher Amirheidari, Mozghan Mohammadi, and Mehdi Golchin: "Production of monoclonal antibody against Aflatoxin B1 in mice" the 16th Seminar of Iranian Pharmacy Students (SIPS2011), October 15-17, 2011, Tehran, Iran.
- Amir-Heidari, B.: Precursor-Directed Biosynthesis, the 15th Seminar of Iranian Pharmacy Students (SIPS2010), October 13-15, 2010, Kerman, Iran.
- Amir-Heidari, B., Mandegari Bamakan, A., Moshafi, M. H. And Mazlum-Fazel, S.: Functional and Molecular Screening of CDA-Producing *Streptomyces* from Jiroft Soil, the 12th Iranian Pharmaceutical Sciences Conference (IPSC2010), 2010, Zanjan, Iran.
- Amir-Heidari, B. and Micklefield, J.: Calcium-Dependent Antibiotics; Directed Biosynthesis and Mechanistic Studies, the 11th Iranian Pharmaceutical Sciences Conference (IPSC2008), Aug 18-21, 2008, Kerman, Iran.
- Amir-Heidari, B. and Micklefield, J.: Stable Isotope Labeling of Amino Acids as a Probe for Biomechanistic Studies, the 11th Iranian Pharmaceutical Sciences Conference (IPSC2008), Aug 18-21, 2008, Kerman, Iran.

Conference abstracts and Lectures

- Amir-Heidari, B.; Precursor-Directed Biosynthesis of non-ribosomal Peptides, the 11th Iranian Pharmaceutical Sciences Conference (IPSC2008), Aug 18-21, 2008, Kerman, Iran.
- Amir-Heidari, B. and Micklefield, J.: Biosynthetic Studies on Calcium Dependent Antibiotics, The Iranian Researchers conference in Europe (IRCE 2006), 2006, Leeds, UK.
- Amir-Heidari, B. and Micklefield, J.: Engineered Biosynthesis of Calcium-Dependent Antibiotics from *Streptomyces coelicolor*, The Iranian Researchers conference in Europe (IRCE 2004), 2004, Manchester, UK.
- Amir-Heidari, B.; Heidari, M.R.; Rezvani, H.; and Karimi, T.: The Analgesic Effect of *Lavandula officinalis* and Histopathological Studies in Mice, 4th Xenobiotic Metabolism and Toxicity Workshop of Balkan Countries, 2000, Antalya, Turkey.
- Heidari, M.R.; Karimian, Z.H.; and Amir-Heidari, B.: The Analgesic Effect of the Methanolic Extract of *Anacardium occidentale* by Tail-Flick and Formalin Test in Mice, 4th Xenobiotic Metabolism and Toxicity Workshop of Balkan Countries, 2000, Antalya, Turkey.

Reference

- Professor Jason Micklefield, Manchester Institute of Biotechnology (MIB), 131 Princess Street, Manchester, M1 7DN, UK.
- Professor Abbas Pardakhty, Faculty of Pharmacy, Kerman University of Medical Sciences, Haft-Bagh Highway., Kerman 76169-13555, Iran

Hobbies and Interests

- Swimming; Hiking, Sightseeing; Composing Poems in Persian; Watching documentaries on TV