

## CURRICULUM VITAE



### **Dr. Nilufar Z. Mamadalieva**

Date of birth: 27.02.1976

Place of birth: Namangan region, Uzbekistan

Gender: Female

Nationality: Uzbek

Language skills: Uzbek, English, Russian

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### **Address of the permanent institute:**

Institute of the Chemistry of Plant Substances (ICPS), Academy of Sciences of Uzbekistan.  
Tashkent 100170, Mirzo Ulugbek Str 77, Uzbekistan. <http://uzicps.uz/>

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### **Educations and Degrees:**

18.07.1997 – BSc & MSc; Department of the Chemistry, Fergana State University, Fergana, Uzbekistan. Thesis: “Alkaloids from the plant of *Artemisia serotina*”.

29.09.2005 – PhD; Laboratory of the Chemistry of Glycosides, ICPS, Tashkent, Uzbekistan. Thesis: “Phytoecdysteroids from the plants of *Silene viridiflora*, *S. wallichiana*, *S. linicola* and synthesis of silenosterone”.

29.11.2018 – DSc; Laboratory of the Chemistry of Glycosides, ICPS, Tashkent, Uzbekistan. Thesis: “Chemical composition and biological activities of medicinal plants from Lamiaceae family”.

### **Specialization and areas of interests:**

Phytochemical and biological analysis of medicinal plants of the Uzbek flora as well as plants from Central Asia; Isolation, structure elucidation and chemistry of secondary metabolites derived from plants; Characterization of natural compounds (TLC, HPTLC, PTLC, CC, HPLC, GC/MS, 1D and 2D NMR); Chemotaxonomy of the species of Caryophyllaceae, Lamiaceae, Fabaceae and Apiaceae in the flora of Uzbekistan; Structure-activity relationship; *In silico* molecular modeling

### **Employment:**

2012- to date – Senior Scientific Researcher, Group Leader, Laboratory of the Chemistry of Glycosides, ICPS, Tashkent, Uzbekistan.

2016-2018 – PostDoc student, Laboratory of the Chemistry of Glycosides, ICPS, Tashkent, Uzbekistan.

2001-2012 – Scientific Researcher, Laboratory of the Chemistry of Glycosides, ICPS, Tashkent, Uzbekistan.

1998-2001 – PhD student, Laboratory of the Chemistry of Glycosides, ICPS, Tashkent, Uzbekistan.

### **Teaching experience:**

2016-2017 - Practical course for Bachelor students in General Chemistry, Tashkent State Technical University, Uzbekistan

**International awards:**

2015 – TWAS Prizes for Young Scientists in Developing Countries

2014 – OWSD-TWAS-Elsevier Awards for Early Career Women Scientists in the Developing World in Chemical Sciences

2011 – L'Oréal-UNESCO for Women in Science International Award

**International fellowships:**

2019 – 2021– Alexander von Humboldt Foundation, Georg Forster Research Award, Halle (Saale), Germany (18 months)

2016 – 2017 – Erasmus Mundus TIMUR PostDoc Scholarship, Vienna, Austria (10 months)

2013 – DAAD Research Grant for Former Scholars, Heidelberg, Germany (3 months)

2013 – Fujii Otsuka Fund for International and Research Exchanges, Tokushima, Japan (1 months)

2011 – 2013 – UNESCO-L'ORÉAL International Fellowship for Young Women in Life Sciences, Viterbo, Italy (2 years)

2009 – DAAD Research Grant, Heidelberg, Germany (3 months)

2008 – Tuscia University Research Fellowship, Viterbo, Italy (3 months)

**International travel awards and grants:**

2018 – 3-ISPMF Travel Grant

2016 – GA 2016 PostDoc Travel Grant

2015 – IUPAC Young Scientist Travel Grant

2014 – AAAS, TWAS and OWSD Travel Grant

2014 – Tokushima University Travel Grant

2011 – FEMS Young Scientist Travel Grant

2011 – IMPACT Young Scientist Award

2011 – TAT Young Scientist Travel Grant

2010 – APCCB Young Scientist Award

2010 – ICS Young Scientist Award

2010 – FEBS Trans -YTF Award

2009 – RAFA Young Scientist Award

2009 – IUPS Young Investigator Award

2009 – EUROMEDLAB Young Scientist Award

2008 – IUBMB Young Scientist Award

2008 – PSE Young Scientist Travel Grant

**National awards:**

1990 – Silver Medal in the National Olympiad of Chemistry, Uzbekistan

**National Research grants:**

Grants of the State Committee of Science and Technology, Republic of Uzbekistan: 2002, 2006, 2007, 2009, 2013-2015, 2018

**Editorial activities:**

Guest Editor – Special issue on “Potential of Terpenoids and Flavonoids from Asteraceae as Anti-Inflammatory, Antitumor, and Antiparasitic Agents” of Evidence-Based Complementary and Alternative Medicine (eCAM) (2017)

Reviewer – American Herbal Pharmacopoeia, American Journal of Essential Oil and Natural Products, Biomedical Chromatography, Chemistry & Biodiversity, Chemistry of Natural Compounds, Natural Product Communications, BLACPMA, Natural Products Research, Pharmaceutical Biology, Pharmacognosy Magazine, Revista Brasileira de Farmacognosia

### **Professional Honor Society and Organizational memberships:**

Society for Medicinal Plant and Natural Product Research (<http://www.ga-online.org/>)

SILAE (Italo-Latin American Society of Ethnomedicine including Asia and Africa) ([www.silae.it](http://www.silae.it))

The International Natural Product Sciences Taskforce (INPST) (<http://inpst.net/>)

OWSD (Organization for Women in Science for the Developing World) (<http://owsd.net/>)

### **Collaborations established:**

Prof. Michael Wink – Ruprecht-Karls-University, Institute of Pharmacy and Molecular Biotechnology, Heidelberg, Germany

Prof. Rene Lafont – Université Pierre et Marie Curie, Institut de Biologie Intégrative, Paris, France

Prof. Satya Sarker – Liverpool John Moores University, School of Pharmacy and Biomolecular Sciences, Liverpool, UK

Prof. Thomas Rosenau – University of Natural Resources and Life Sciences (BOKU), Department of Chemistry, Vienna, Austria

Prof. Antonio Tiezzi – Tuscia University, Department for the Innovation in Biological, Agrofood and Forest systems (DIBAF), Viterbo, Italy

Prof. Ludger Wessjohann – Leibniz Institute of Plant Biochemistry, Department Bioorganic Chemistry, Halle (Saale), Germany

Prof. Lyle Craker – University of Massachusetts, Department of Plant, Soil & Insect Sciences, Laboratory for Natural Products, Medicinal and Aromatic Plants, Amherst, USA

Prof. Sun Chul Kang – Daegu University, Department of Biotechnology, Daegu, South Korea

Prof. Johannes Novak – University of Veterinary Medicine, Institute of Animal Nutrition and Functional Plant Compounds, Vienna, Austria

Prof. Gokhan Zengin – Department of Biology, Selcuk University, Konya, Turkey

Prof. Mohamed Lotfy Ashour – Department of Pharmacognosy, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt

Prof. Chunlin Long – Minzu University, College of Life and Environmental Sciences, Beijing, China

Prof. Atanas G. Atanasov – Institute of Genetics and Animal Breeding, Molecular Biology Department, Warsaw, Poland

Prof. Amir Reza Jassbi – Department of Phytochemistry, Shiraz University of Medical Sciences, Shiraz, Iran

Prof. Mohamad Fawzi Mahomoodally – Department of Health Sciences, Faculty of Science, University of Mauritius, Réduit, Mauritius

### **Participation in International Conferences:**

1. 3<sup>rd</sup> International Symposium on Phytochemicals in Medicine and Food (3-ISPMF), 25-30<sup>th</sup> August 2018, Kunming (China)

2. 3<sup>rd</sup> International Conference on Natural Products Utilization: from Plants to Pharmacy Shelf (ICNPU-2017), 18-21<sup>th</sup> October 2017, Bansko (Bulgaria)

3. 46<sup>th</sup> EuroCongress on Drug Synthesis and Analysis (CFPH2017), 5-8<sup>th</sup> September, 2017, Bratislava (Slovakia)

4. International Workshop at Uzbek-Japan Youth Innovation Centre, 10-11<sup>th</sup> October, 2016, Tashkent (Uzbekistan)
5. 11th International Symposium on the Chemistry of Natural Compounds (SCNC 2015), 1-4<sup>th</sup> October 2015, Antalya (Turkey)
6. 45th World Chemistry Congress (IUPAC-2015), 9-14<sup>th</sup> August 2015, Busan (South Korea)
7. International Scientific and Practical Conference “Achievements and prospects of development in phytochemistry”, 10-11<sup>th</sup> April 2015, Karaganda (Kazakhstan)
8. International Scientific and Practical Conference “Pharmaceutical education, science and production- a reference to the strategy “Kazakhstan – 2020”, 23-24<sup>th</sup> October 2014, Shymkent (Kazakhstan)
9. AAAS Annual Meeting, 13-17<sup>th</sup> February 2014, Chicago (USA)
10. International Symposium “Developing drugs and pharmacy awareness and education from a regional viewpoint: Herbs, biological diversity and expression of rural community health care”. 12-13<sup>th</sup> January 2014, Tokushima (Japan)
11. International Forum Discussion for Pharmacist Education in Tokushima. 11<sup>th</sup> February 2013, Tokushima (Japan)
12. 13<sup>th</sup> International Congress of the Society for Ethnopharmacology. 2-6<sup>th</sup> September 2012, Graz (Austria)
13. 4<sup>th</sup> FEMS Congress of European Microbiologists. 26-30<sup>th</sup> June 2011, Geneva (Switzerland)
14. Breast Cancer Conference (IMPAKT 2011). 5-7<sup>th</sup> May 2011, Brussels (Belgium)
15. 9<sup>th</sup> International Symposium on Targeted Anticancer Therapies (TAT 2011). 7-9<sup>th</sup> March 2011, Paris (France)
16. UNESCO-L'ORÉAL Awards Ceremony. 2-3<sup>rd</sup> March 2011, Paris (France)
17. 12<sup>th</sup> Asian-Pacific Congress of Clinical Biochemistry. 3-7<sup>th</sup> October 2010, Seoul (South Korea)
18. FEBS Workshop on “Microbial Lipids: From Genomics to Lipidomics”. 13-15<sup>th</sup> May 2010, Vienna (Austria)
19. 4<sup>th</sup> International Symposium on Recent Advances on Food Analysis. 4-6<sup>th</sup> November 2009, Prague (Czech Republic)
20. 18<sup>th</sup> IFCC - FESCC European Congress of Clinical Chemistry and Laboratory Medicine. 7-11<sup>th</sup> June 2009, Innsbruck (Austria)
21. 33<sup>rd</sup> FEBS Congress & 11<sup>th</sup> IUBMB Conference. 28<sup>th</sup> June-3<sup>rd</sup> July 2008, Athens (Greece)
22. 8<sup>th</sup> Young Scientist Forum “Cell Harmony”. 26-28<sup>th</sup> June 2008, Loutraki (Greece)
23. 7<sup>th</sup> International Symposium on the Chemistry of Natural Compounds. 16-18<sup>th</sup> October 2007, Tashkent (Uzbekistan)

#### **Invited lectures in International Conferences, Symposia, and Universities:**

1. 3<sup>rd</sup> International Symposium on Phytochemicals in Medicine and Food (3-ISPMF), 25-30<sup>th</sup> August 2018, Kunming (China)
2. Erasmus Mundus TIMUR Conference, Institute of Irrigation and Agricultural Mechanization Engineers, EcoGIS Centre, 20<sup>th</sup> January 2018, Tashkent (Uzbekistan)
3. National University of Uzbekistan, Faculty of Biology, 24<sup>th</sup> March 2017, Tashkent (Uzbekistan)
4. International Workshop at Uzbek-Japan Youth Innovation Centre, 10-11<sup>th</sup> October 2016, Tashkent (Uzbekistan)
5. Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, EcoGIS Centre, 15<sup>th</sup> January 2016, Tashkent (Uzbekistan)

6. 11th International Symposium on the Chemistry of Natural Compounds (SCNC 2015), 3<sup>rd</sup> October 2015, Antalya (Turkey)
7. Daegu University, Department of Biotechnology, 14<sup>th</sup> August 2015, Daegu (South Korea)
8. International Scientific and Practical Conference “Achievements and prospects of development in phytochemistry”, 11<sup>th</sup> April 2015, Karaganda (Kazakhstan)
9. International Scientific and Practical Conference “Pharmaceutical education, science and production- a reference to the strategy “Kazakhstan – 2020”, 23<sup>rd</sup> October 2014, Shymkent (Kazakhstan)
10. International Symposium “Developing drugs and pharmacy awareness and education from a regional viewpoint: Herbs, biological diversity and expression of rural community healthcare”, 12<sup>th</sup> January 2014, Tokushima (Japan)
11. Institute of Pharmacy and Molecular Biotechnology, Department of Biology, 15<sup>th</sup> December 2009, Heidelberg (Germany)
12. 8<sup>th</sup> Young Scientist Forum “Cell Harmony”, 28<sup>th</sup> June 2008, Loutraki (Greece)
13. 7<sup>th</sup> International Symposium on the Chemistry of Natural Compounds. 17<sup>th</sup> October 2007, Tashkent (Uzbekistan)

#### **Supervision of thesis:**

Abdulaziz Janibekov – PhD, ICPS, Tashkent, Uzbekistan

Davlat Akramov – PhD, ICPS, Tashkent, Uzbekistan

Bobomurod Khandamov – MSc, ICPS, Tashkent, Uzbekistan

Bakhodir Okhundedaev – MSc, Uzbekistan National University, Tashkent, Uzbekistan

Dilrabo Khaydarova – MSc, Namangan State University, Namangan, Uzbekistan

Kahar Kanapin – MSc, Kazakh National Medical University, Karaganda, Kazakhstan

Alibek Almagambetov – MSc, Karaganda State Industrial University, Karaganda, Kazakhstan

#### **Opponent for PhD defences:**

2018 – PhD thesis of Gofurjon Siddikov, Namangan State University, Uzbekistan

2013 – PhD thesis of Mehboob Alam, Peshawar University, Pakistan

#### **Technical skills:**

Extraction, isolation and structure elucidation of secondary metabolites (ecdysteroids, flavonoids, steroids, iridoids, essential oils, lipids, phenolics) from natural origin; Isolation and identification of natural compounds using chromatographic (TLC, HPTLC, PTLC, HPLC, GC, GC/MS) and spectrometric (IR, UV, mass-, 1D and 2D NMR) methods; Biological screening of different plant extracts and isolated compounds especially as anticancer, antimicrobial, antioxidants and enzyme inhibitors; *In silico* molecular modeling

#### **Computer skills:**

Microsoft Office programs (Word, PowerPoint), EndNote, ChemDraw, MestReNova, visionCATS, ChemStation, SciFinder, NIST/Wiley Library etc.