

MALIK NISHONOV, Ph.D.
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HIGHLIGHTS

- Industrial and Postdoctoral research experience in Organic Chemistry
- Co-author and co-inventor of highly active inhibitors and novel natural products
- Management and supervision experience for laboratories and research groups

RESEARCH EXPERIENCE

Chemist, LC Vision LLC, Boulder, CO July, 2010 – May, 2013

- Designed and synthesized nematic and ferroelectric liquid crystal components, analyzed and characterized liquid crystal materials by GC/MS, NMR and other laboratory kits
- Conducted multi-step cross coupling, asymmetric reactions with air and moisture sensitive reagents and catalysts
- Prepared liquid crystal components for internal and external customers
- Managed research projects including maintains of chemistry laboratories

Postdoctoral Research, The Center for Drug Discovery, College of Pharmacy, University of Georgia, Athens, GA May, 2003 - June, 2010

- Designed and synthesized hetrocycles, aromatics, diverse scaffolds as potent inhibitors against HIV Integrase, HCV NS5B Polymerase, HSV, and IMPDH
- Characterized synthesized small molecules by chemical and spectroscopic methods, interpreted structure activity relationship (SAR) and optimized of small molecule properties to improve therapeutic index
- Synthesized our laboratory compounds in 1-100 g scale for preclinical development in collaboration with Inhibitex Inc. (acquired by Bristol-Myers Squibb)

Visiting Research Fellow

Department of Chemistry, University of Georgia, Athens, GA January, 2002- April, 2003

- Investigated the natural products (alkaloids, flavonoids), isolated from *Encylia longifolia*, *Delphinium chelanthum*, *Delphinium elatum* "Galahad" and modified perspective natural products
- Modified, transformed natural products and determined structure by application spectroscopic methods such as NMR (1D, 2D), IR, MS, UV

Senior Research Scientist, The Institute of Medical Problems SA Kyrgyzstan. Medical School of the Osh State University Osh, Kyrgyzstan August, 1992 - December, 2001

- Investigated alkaloids, proantocyanidines, flavonoids isolated from *Polygonium*, *Aconitum*, and *Delphinium* species occurring in Kyrgyzstan and Central Asia
- Wrote and prepared research proposals, manuscripts, and reports
- Supervised the research group, Managed research projects, research laboratories
- Taught Organic Chemistry and Bioorganic Chemistry; lectures/seminars/laboratory practices

**The Institute of Chemistry of Plant Substances at Uzbekistan Academy of Sciences,
Tashkent, Uzbekistan, Graduate Research**

May, 1987- July, 1992

- Investigation of alkaloids of *Aconitum* and *Delphinium* species collected from Russia and Central Asia. Extraction, isolation, separation, purification and structure elucidation of alkaloids by using modern techniques and tools (NMR, MS, IR, UV etc.)
- Modification and semi synthesis of diterpenoid alkaloids as antiarrhythmic agent
- Working on pilot production of “*Allapinine*” – anti-arrhythmic drug

EDUCATION

- **Ph.D. in Organic Chemistry**, Sciences Academy of USSR (UzSSR branch), The Institute of Chemistry of Plant Substances, Tashkent, Uzbekistan
- **B.S. in Chemistry**, National University of Uzbekistan, Tashkent, Uzbekistan.
- **Certificate**, The English languages, Institute of Economics at the Colorado University Boulder
- **Diploma**, Two years English languages courses, The Uzbekistan State University of World Languages

AWARDS AND AFFILIATIONS

- Grant from the Committee of Science and New Technologies of the Kyrgyz Republic to establish a research laboratory and conduct research, 1996-2000
- Member American Chemical Society, 2003-2008, 2010-2011
- New York Academy of Sciences 1996

SKILLS

- Proficient in diverse area of organic synthesis, in application IR, MS, UV, NMR (1D and 2D), Biotage SP1 Flash, HPLC, GC, GC-MS
- Software: SciFinder Scholar, Reaxys, ChemBioDraw Ultra, Microsoft Office
- Languages: English, Russian, Kyrgyz, Uzbek and Kazah

PUBLICATIONS

- Patents, 22 peer-reviewed articles and more than 10 presentations in international symposiums and conventions