



# Marina G. Dimitrijević

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## About Me

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Organic chemist and PhD student with 4 years of experience, specializing in organic synthesis and bioorganic chemistry. Research focuses on the design and synthesis of heterocyclic compounds and their application as potential therapeutic agents.

## Work Experience

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### 2022 - Junior research assistant

University of Kragujevac, Faculty of Science, Department of Chemistry

- Scientific work - synthesis of heterocyclic compounds with a particular emphasis on the development of small molecules as potential inhibitors of the enzyme dihydroorotate dehydrogenase (hDHODH).
- Involved in teaching Organic chemistry courses.
- Mentor in Regional Center for Talented Children Kragujevac

## Education

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### ● Bachelor of Chemistry; Department for Research and Development

Faculty of Science; University of Kragujevac (Serbia)  
2016-2020.

### ● Master of Chemistry; Department for Research and Development

Faculty of Science; University of Kragujevac (Serbia)  
2020-2021.

### ● PhD Studies, Chemistry

Faculty of Sciences, University of Kragujevac (Serbia), Organic chemistry  
2021-

## Publication

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1. M.G. Dimitrijević, G.A. Bogdanović, S. Trifunović, M.D. Joksović, Rapid access to pyrrolo[3,4-c]quinoline-1,3-diones: An improved synthetic protocol using a precursor prepared by Pfitzinger reaction, *Tetrahedron* 132 (2023) 133236

2. M.G. Dimitrijević, C. Roschger, K. Lang, A. Zierer, M.G. Paunović, A. D. Obradović, M. M. Matić, M. Pocrnić, N. Galić, A. Ćirić, M.D. Joksović, Discovery of a new class of potent pyrrolo[3,4-c]quinoline-1,3-diones based inhibitors of human dihydroorotate dehydrogenase: Synthesis, pharmacological and toxicological evaluation, *Bioorganic chemistry* 147 (2024) 107359

## Skills

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My areas of expertise include:

- Synthesis of organic compounds
- Spectroscopic analysis techniques
- Chromatographic methods
- Pharmacological properties and evaluation of compounds

## Language

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- English
- German