

## Ing. Ján Matyašovský

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Sex: Male | Date of birth: 5th of January 1992 | Nationality: Slovak

## RESEARCH INTERESTS

Organic Chemistry, Total Synthesis, Organic Synthesis Methodology, Chemistry of Nucleic Acids

## EDUCATION AND TRAINING

**PhD study** (since September 2015) – Institute of Organic Chemistry and Biochemistry, Czech Academy of Sciences, Prague, Czech Republic. Supervisor prof. Hocek – Laboratory of Bioorganic and Medicinal Chemistry of Nucleic Acids. Research partially carried out under the Horizon 2020 Innovative Training Network (ITN) (ClickGene – [www.clickgene.eu](http://www.clickgene.eu)).

**M.Sc. degree** (2013-2015) – Slovak University of Technology, Faculty of Chemical and Food Technology, Bratislava, Slovakia (graduated with honors). Supervisor prof. Gracza – Laboratory of Organic Synthesis.

**B.Sc. degree** (2010-2013) – Slovak University of Technology, Faculty of Chemical and Food Technology, Bratislava, Slovakia (graduated with honors). Supervisors Dr. Lásiková and prof. Gracza – Laboratory of Organic Synthesis.

## SCIENTIFIC PUBLICATIONS

- Sabat, N.; Nauš, P.; Matyašovský, J.; Dziuba, D.; Poštová Slavětínská, L.; Hocek, M.: "Synthesis of Fluorescent 2-Substituted 6-(Het)aryl-7-deazapurine Bases {4-(Het)aryl-pyrrolo[2,3-d]pyrimidines} by Aqueous Suzuki–Miyaura Cross-Coupling Reactions" *Synthesis* **2016**, *48*, 1029 - 1045.
- Dziuba, D.; Pospíšil, P.; Matyašovský, J.; Brynda, J.; Nachtigallová, D.; Rulišek, L.; Pohl, R.; Hof, M.; Hocek, M.: "Solvatochromic Fluorene-Linked Nucleoside and DNA as Color-Changing Fluorescent Probes for Sensing Interactions" *Chemical Science* **2016**, *7*, 5775 - 5785.
- Matyašovský, J.; Perlíková, P.; Malnuit, V.; Pohl, R.; Hocek, M.: "2-Substituted dATP Derivatives as Building Blocks for Polymerase-Catalyzed Synthesis of DNA Modified in the Minor Groove" *Angewandte Chemie International Edition* **2016**, *55*, 15856 - 15859.
- Matyašovský, J.; Pohl, R.; Hocek, M.: "2-Allyl- and Propargylamino-dATPs for Site-Specific Enzymatic Introduction of a Single Modification in the Minor Groove of DNA" *Chemistry: A*

*European Journal* **2018**, *24*, 14938 - 14941.

- Güixens-Gallardo, P.; Zawada, Z.; Matyašovský, J.; Dziuba, D.; Pohl, R.; Kraus, T.; Hocek, M.: "Brightly Fluorescent 2'-Deoxyribonucleoside Triphosphates Bearing Methylated Bodipy Fluorophore for *in Cellulo* Incorporation to DNA, Imaging and Flow Cytometry" *Bioconjug. Chem.* **2018**, *29*, 3906 - 3912.
- Matyašovský, J.; Hocek, M.: "2-Substituted 2'-Deoxyinosine 5'-Triphosphates as Substrates for Polymerase Synthesis of Minor-Groove-Modified DNA and Effects on Restriction Endonuclease Cleavage" *Organic & Biomolecular Chemistry* **2019**, *Manuscript accepted*, doi: 10.1039/C9OB02502B.

## CONFERENCES

### Oral Communications

- COST Action 1201 Biomimetic Radical Chemistry Meeting | Grenoble, France, 2016
- ClickGene Mid-term Review Meeting | Bologna, Italy, 2017
- ClickGene Meeting 2018 | Oxford, England, 2018
- Minisymposium - Chemistry at the Via Carolina | Prague, Czech Republic, 2018
- ClickGene Final Meeting 2018 | Dublin, Ireland, 2018
- 53rd Advances in Organic, Bioorganic and Pharmaceutical Chemistry - Liblice 2018 | Lázně Bělohrad, Czech Republic, 2018

### Posters

- 7th Symposium on Chemistry of Nucleic Acid Components – SCNAC17 | Český Krumlov, Czech Republic, 2017
- 21st European Symposium on Organic Chemistry – ESOC2019 | Vienna, Austria, 2019

## LANGUAGES AND TECHNICAL SKILLS

- Slovak (Native), English (Fluent Written and Oral – C1 CEFR level), Czech (Fluent Oral), German (Elementary)
- Computer Skills: MS Office, Adobe Photoshop, MestReNova, Reaxys, Scifinder, ChemDraw, Origin
- Practical Technical Skills: NMR, MS, IR, UV-Vis, Fluorescence Spectroscopy, HPLC, Gel Electrophoresis

## NON-TECHNICAL SKILLS AND EXPERIENCE

- Strong organizational and multi-tasking skills managing multiple projects with different challenges and deadlines.
- Consistency in the on-time delivery of high-quality results, effectiveness in work planning and

execution.

- Excellent approach towards problem solving with the ability to anticipate issues and creativity to resolve them.
- Critical thinking necessary for analytical data evaluation, attention to detail and patience.
- Record of building effective work relationships, ability to work in a team environment, motivate and help during difficult times.
- Excellent communication skills, effective dissemination of written and verbal information, articulation of ideas and presentation of issues and results.
- Loyalty, integrity, ability to adapt to a changing environment.

### **TEACHING EXPERIENCE**

- Course of Organic Chemistry for Undergraduate Students at the Charles University, Prague (2016-2019)

### **AWARDS**

- Best Poster Presentation – ChemBioChem Prize – SCNAC 2017, Český Krumlov, Czech Republic