europass

# Klára Stankovianska

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## ABOUT ME

I am a doctoral student of the Faculty of Natural Sciences of the Comenius University in Bratislava at the Department of Organic Chemistry. I work in the laboratory of asymmetric catalysis and green chemistry in THE SEBESTA GROUP. (https://www.radovansebesta.com/)

## WORK EXPERIENCE

### scientific laboratory technician

***Comenius University Bratislava, Faculty of Natural Sciences, Department of Organic Chemistry*** [ 06/2022 – 04/2023 ]

**City:** Bratislava | **Country:** Slovakia

### scientific laboratory technician

***Comenius University Bratislava, Faculty of Natural Sciences*** [ 09/2022 – 02/2023 ]

**City:** Bratislava | **Country:** Slovakia

### scientific laboratory technician

***Comenius University Bratislava, Faculty of Natural Sciences*** [ 02/2021 – 06/2021 ]

**City:** Bratislava | **Country:** Slovakia

### scientific laboratory technician

***BIOMEDICA CS*** [ 06/2018 – 01/2019 ]

**City:** Bratislava | **Country:** Slovakia

## EDUCATION AND TRAINING

### Bachelor (Bc.)

***Comenius University Bratislava, Faculty of Natural Sciences, Department of Organic Chemistry*** [ 09/2016 – 06/2019 ]

**Address:** Ilkovičova 6, 84104 Bratislava (Slovakia) | **Website:** https://fns.uniba.sk/ | **Field(s) of study:** Natural sciences, mathematics and statistics: • Chemistry | **Thesis:** Organokatalýza v syntéze spirocyklických oxindolov

### Master of Science (MSc.)

***Comenius University Bratislava, Faculty of Natural Sciences, Department of Organic Chemistry*** [ 09/2019 – 06/2021 ]

**Address:** Ilkovičova 6, 84104 Bratislava - Karlova Ves (Slovakia) | **Website:** https://fns.uniba.sk/ | **Field(s) of study:** Natural sciences, mathematics and statistics: • Chemistry | **Thesis:** Asymetrická hetero-Dielsova-Alderova reakcia s obrátenými elektrónovými požiadavkami katalyzovaná tvorbou dienolátu

### PhD. student

***Comenius University Bratislava, Faculty of Natural Sciences, Department of Organic Chemistry*** [ 09/2021 – Current ]

**Address:** Ilkovičova 6, 84104 Bratislava - Karlova Ves (Slovakia) | **Website:** https://fns.uniba.sk/ | **Thesis:** Asymetrická organokatalýza v syntéze antivirotík a antibiotík

## LANGUAGE SKILLS

**Mother tongue(s):** Slovak

**Other language(s):**

### English

**LISTENING** B2 **READING** B2 **WRITING** B2

**SPOKEN PRODUCTION** B2 **SPOKEN INTERACTION** B2

### German

**LISTENING** B1 **READING** B1 **WRITING** B1

**SPOKEN PRODUCTION** B1 **SPOKEN INTERACTION** B1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## DIGITAL SKILLS

Microsoft Word / Microsoft Excel / Microsoft PowerPoint / Microsoft Office / Microsoft Outlook / Internet / Microsoft Teams / Skype / Windows / Social Media / Gmail

## PUBLICATIONS

[2022]

**Derivatives of benzo-1,4-thiazine-3-carboxylic acid and the corresponding amino acid conjugates** Beilstein J. Org. Chem

Péter Kisszékelyi, Tibor Peňaška, Klára Stankovianska, Mária Mečiarová and Radovan Šebesta

Herein, we present the synthesis and utilization of derivatives of 4*H*-benzo[*b*][1,4]thiazine-3-carboxylic acid. These benzothiazine compounds were assembled via the coupling of aminothiols and bromopyruvates. Oxidative dimerization of these starting materials was also observed and the corresponding benzothiazine dimers were isolated. Moreover, the coupling of benzothiazines with amino acids was realized. In doing so, an enantioselective synthesis of the nonproteinogenic amino acid 2-amino-3-propylhexanoic acid was accomplished.

https://doi.org/10.3762/bjoc.18.124

[2022]

**Diastereodivergent Enantioselective Formal oxa-Diels-Alder Reaction of Unsaturated Ketones with Enoates Under Liquid-Assisted Grinding Conditions** ChemSusChem

Dr. Tibor Peňaška, Dr. Viktória Modrocká, MSc. Klára Stankovianska, Prof. Mária Mečiarová, Prof. Dr. Erik Rakovský, Prof. Dr. Radovan Šebesta

Chiral heterocycles occur in many compounds of interest, but their efficient synthesis is challenging. This study concerns the enantioselective and diastereoselective synthesis of densely substituted chiral pyran derivatives. Diastereodivergence of the oxa-Diels-Alder reaction is achieved by using either a bifunctional amino-thiourea or a monofunctional quinine organocatalyst under ball-milling conditions. Liquid-assisted grinding proves a highly efficient means of affording pyrans in high yield, with high enantiomeric purities and short reaction times.

https://doi.org/10.1002/cssc.202200028

## NETWORKS AND MEMBERSHIPS

[ 10/2021 – Current ] Comenius University Bratislava, Faculty of Natural Sciences
**Member of the academic senate**

## DRIVING LICENCE

**Driving Licence:** AM
**Driving Licence:** B1
**Driving Licence:** B

## CONFERENCES AND SEMINARS

[ 04/09/2022 – 08/09/2022 ] Jastrzebia Góra, Poľsko
**15th Pannonian International Symposium on Catalysis** Organocatalytic synthesis of potentially biologically active dihydropyrans (poster)

**Link:** https://pannonian2020.umcs.eu/

[ 06/06/2022 – 26/06/2022 ] Banská Bystrica
**Interactive conference of young scientists 2022** Enantioselective synthesis of potential antivirals by cycloaddition reaction (presentation)

**Link:** https://www.preveda.sk/konferencia/xiv-rocnik-interaktivnej-konferencie-mladych-vedcov-0

[ 27/04/2022 – 27/04/2022 ] Bratislava
**Student scientific conference (SSC FNS UK) 2022** Quinine-catalyzed asymmetric inverse electron-demand oxa-Diels-Alder reaction under ball-milling conditions (poster)

**Link:** https://fns.uniba.sk/fileadmin/prif/svk/zborniky/Zbornik_SVK_2022.pdf

[ 06/09/2021 – 10/09/2021 ] Vysoké Tatry, Slovensko
**73rd Annual Congress of the Slovak and Czech Chemical Societies** Utilization of quinine and mechanical activation in an asymmetric dienolate inverse electron-demand oxa-Diels-Alder reaction (poster)

**Link:** https://73zjazd.schems.sk/

[ 26/04/2023 – 26/04/2023 ] Bratislava
**Student scientific conference (SSC FNS UK) 2023** Enantioselective synthesis of fluorinated chiral dihydropyrans with potential biological activity (presentation)

[ 04/09/2023 – 08/09/2023 ] Horný Smokovec
**75rd Annual Congress of the Slovak and Czech Chemical Societies** Fluorinated pyrans as potential biologically active substances (poster)
*Award of the Rector of the Comenius University for the best contribution.*

## HOBBIES AND INTERESTS

sports, fitness, hiking, nature, theater, movies

## TECHNICAL SKILLS

HPLC spectroscopy, measurement: IR, MS, NMR, t.t., work in a vibrating ball mill, work in a microwave reactor, flash chromatography

## THE FIELD OF ACTIVITY IN WHICH YOU ARE INTERESTED

Organic chemistry, organic synthesis, stereoselective synthesis, asymmetric catalysis, green chemistry.