



AL MAGNIFICO RETTORE
DELL'UNIVERSITA' DEGLI STUDI DI MILANO

COD. ID: 5120

Il sottoscritto chiede di essere ammesso a partecipare alla selezione pubblica, per titoli ed esami, per il conferimento di un assegno di ricerca presso il Dipartimento di Scienze Farmaceutiche

Responsabile scientifico: Prof.ssa Laura Fumagalli

Nives Hribernik

CURRICULUM VITAE

INFORMAZIONI PERSONALI

Cognome	Hribernik
Nome	Nives

ISTRUZIONE E FORMAZIONE

Titolo	Corso di studi	Università	anno conseguimento titolo
Laurea Magistrale o equivalente	Pharmacy (Uniform Master's Study Programme)	University of Ljubljana (Ljubljana, Slovenia)	2017
Dottorato Di Ricerca	Chemistry/Drug Innovation	University of Milan / Utrecht University (Joint Degree)	2021

LINGUE STRANIERE CONOSCIUTE

lingue	livello di conoscenza
English	C1
Slovene	C2 (native speaker)
German	B2
Italian	A1

PREMI, RICONOSCIMENTI E BORSE DI STUDIO

anno	Descrizione premio
2018-2021	Scholarship: I received a PhD grant for the European Joint Doctorate PhD4GlycoDrug, which is a part of Horizon 2020 Marie Skłodowska Curie Actions.



ATTIVITÀ DI FORMAZIONE O DI RICERCA

- **Early stage researcher in Horizon 2020 Marie Skłodowska Curie European Joint Doctorate PhD4GlycoDrug**

1.4.2018 - 7.10.2021

Thesis: Decoys for disrupting carbohydrate-lectin interactions

Supervisors: Prof. Anna Bernardi and Prof. Roland J. Pieters

- 1.4.2018 - 31.1.2020 University of Milan (Italy), Department of Organic Chemistry: Synthesis of *thio*-glycosides via one-pot aziridine opening reactions
- 1.2.2020 - 31.3.2021 Utrecht University (the Netherlands), Chemical Biology and Drug Discovery: Cyanovirin-N as a flexible antiviral platform
- 1.4.2021 - 7.10.2021: University of Milan (Italy), Department of Organic Chemistry: Research on mechanisms behind anomerization of glycosyl thiolates, manuscript preparation, thesis defense

The doctoral project at the University of Milan focused on development of a new synthetic approach towards the synthesis of pseudo-*thio*-glycosides, establishing an operationally simpler alternative to more standard glycosylation methods. The work included synthesis of glycomimetics, optimization of reaction conditions and mechanistic investigations, supported by extensive NMR and LC-MS studies. At Utrecht University, I worked also towards development of new Cyanovirin-N derived peptide constructs as antiviral agents. The activities included solid phase peptide synthesis, protein expression and purification, structural characterization by circular dichroism and NMR, and binding studies with isothermal titration calorimetry.

- **Student Internship at University of Helsinki** (Finland), Faculty of Pharmacy

20.7.2017 - 21.8.2017

Project: Synthesis of purpurealidin-inspired compounds

Supervisor: Adj. Prof. Paula Kiuru

The activities of this project included planning the synthetic route, organic synthesis, purification and characterization of compounds.

- **Research work in medicinal chemistry** at University of Ljubljana (Slovenia), Faculty of Pharmacy

1.4.2016 - 30.6.2017

Project: Glycomimetic inhibitors of bacterial *N*-acetylglucosaminidases

Supervisor: Prof. Marko Anderluh

The research work included drug design, synthesis of glycomimetic compounds, characterization of the compounds (NMR, MS) and interpretation of the results from binding assay (surface plasmon resonance).

- **Student Internship at University Medical Centre Ljubljana**, Ljubljana (Slovenia)

1.10.2015 - 28.2.2016

The activities included compounding of magistral preparations and galenic formulations (suspensions, syrups, ointments, etc.), checking dosage of medicines prescribed, particularly for children, dispensing of medicines and patient counselling.

- **ADDITIONAL TRAINING**

- **Introduction to Molecular Modeling in Drug Discovery**

Schrödinger online course

Completed 26.10.2020

The course provided an overview on how computational molecular modeling tools can be integrated in a drug discovery process and a hands-on training with Schrödinger's Maestro and LiveDesign.



CONGRESSI, CONVEGNI E SEMINARI

Data	Titolo	Sede
4.7.-7.7.2021	Advanced School on Carbohydrate Chemistry (XVII CSCC 2021)	Pontignano, Italy
10.6.-18.6.2021	16th Summer Course Glycosciences	Online
26.5.-28.5.2021	European Chemical Biology Symposium 2021	Online
26.5.2020	1st EFMC-YSN MedChemBio	Online
15.5.2020	NIH & FDA Virtual Glycoscience Research Day	Online
25.11.2019	XXXIV Edition Conference New Trends in Organic Synthesis	Milano, Italy
27.9.2019	Seminar: "Separazioni chirali in liquid cromatografia"	Milano, Italy
13.9.2019	New Approaches in Molecular Modeling Workshop	Milano, Italy
30.6-4.7.2019	Eurocarb	Leiden, the Netherlands
17.5.2019	Seminar: Science of Synthesis	Milano, Italy
25.9.2018	Seminar "Deliberate practice makes you a better writer" by Prof. Gregory Patience and Prof. Daria Boffito	Milano, Italy
22.2.2019	Seminar: I Chimici per le Biotecnologie	Milano, Italy
24.1.2019	Seminar: A sweet twist: How sugar ring flexibility dictates reactivity	Milano, Italy
2.9.-6.9.2018	XXV EFMC International Symposium on Medicinal Chemistry (EFMC-ISMC)	Ljubljana, Slovenia
2.7.-5.7.2018	Structural Glycoscience Summer School	Grenoble, France
10.6.-14.6.2018	International summer school on organic synthesis "A. Corbella"	Gargnano, Italy

Articoli su riviste

Title: One pot synthesis of *thio*-glycosides via aziridine opening reactions.

Authors: Hribernik, N.; Tamburrini, A.; Falletta, E.; Bernardi, A.

Journal: Organic & Biomolecular Chemistry. Publisher: Royal Society of Chemistry.

Year: 2021. DOI: [10.1039/D0OB01956A](https://doi.org/10.1039/D0OB01956A)

Title: Synthesis and Antiproliferative Activity of Marine Bromotyrosine Purpurealidin I and Its Derivatives.

Authors: Bhat, C.; Ilina, P.; Tilli, I.; Voráčková, M.; Bruun, T.; Barba, V.; Hribernik, N.; Lillsunde, K.-E.; Mäki-Lohiluoma, E.; Rüffer, T.; Lang, H.; Yli-Kauhaluoma, J.; Kiuru, P.; Tammela, P.

Journal: Marine Drugs. Publisher: MDPI

Year: 2018. DOI: [10.3390/md16120481](https://doi.org/10.3390/md16120481)



Atti di convegni
<ul style="list-style-type: none">• <u>Oral communication</u> Title: One-pot aziridine opening reactions for synthesis of <i>thio</i>-glycosides, Advanced School on Carbohydrate Chemistry (XVII CSCC 2021) (Pontignano, Italy, 6.7.2021)
<ul style="list-style-type: none">• <u>Oral communication-abstract accepted:</u> Title: Synthesis of a new class of thioglycomimetics through one-pot aziridine opening reactions, Eurocarb (Paris, France, 2021)-event cancelled due to Covid-19
<ul style="list-style-type: none">• <u>Poster and flash presentation:</u> Title: Synthesis of <i>thio</i>-glycosides via one-pot aziridine opening reactions, 16th Summer Course Glycosciences (online, organized by the Graduate School VLAG in co-operation Wageningen University and Research, University of Groningen and Leiden University Medical Center, 10.6.2021)
<ul style="list-style-type: none">• <u>Poster presentation:</u> Title: Development of a library of pseudo-<i>thio</i>-glycopeptides, XXXIV Edition Conference <i>New Trends in Organic Synthesis (Milano, 25.11.2019)</i>
<ul style="list-style-type: none">• <u>Oral communication:</u> Title: Synthesis of thioglycosides through one-pot aziridine opening reactions, Eurocarb (Leiden, the Netherlands, 2.7.2019)

Le dichiarazioni rese nel presente curriculum sono da ritenersi rilasciate ai sensi degli artt. 46 e 47 del DPR n. 445/2000.

Il presente curriculum, non contiene dati sensibili e dati giudiziari di cui all'art. 4, comma 1, lettere d) ed e) del D.Lgs. 30.6.2003 n. 196.

RICORDIAMO che i curricula **SARANNO RESI PUBBLICI sul sito di Ateneo** e pertanto si prega di non inserire dati sensibili e personali. Il presente modello è già precostruito per soddisfare la necessità di pubblicazione senza dati sensibili.

Si prega pertanto di **NON FIRMARE** il presente modello.

Luogo e data: __Ljubljana_____, __29.11.2021_____