



Agnieszka Cuprys

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Drøbakveien 31, Faculty of Science and Technology, NMBU, 1430, Ås, Norway

● WORK EXPERIENCE

06/06/2021 – CURRENT – Ås, Norway

MSCA POSTDOCTORAL RESEARCH FELLOW – NORWEGIAN UNIVERSITY OF LIFE SCIENCES

Project: Development of Emerging Contaminants – Hybrid Soft Sensor for on-line monitoring of contaminants of emerging concern in water (EOC-SOS)

30/09/2020 – 30/05/2021 – Gdansk, Poland

ADMINISTRATIVE RESEARCH ASSISTANT – MEDICAL UNIVERSITY OF GDANSK

Support in the implementation of the objectives of the "Excellence Initiative - Research University" program, in particular through close cooperation with the Leader of Priority Research Area 1: Oncology

04/08/2019 – 06/10/2019 – Ås, Norway

VISITING RESEARCHER – NORWEGIAN UNIVERSITY OF LIFE SCIENCES

Mitacs Globalink project: Simultaneous Sorption of Ciprofloxacin and Heavy Metals Using Functionalized Biochar

31/08/2018 – 30/07/2019 – Quebec, Canada

LABORATORY MANAGER – INSTITUT NATIONAL DE LA RECHERCHE SCIENTIFIQUE

- Ordering of laboratory reagents and equipment
- Maintaining security compliance
- Training for new students on security principles
- Responsibility for safety documents

31/10/2017 – 29/11/2017 – Quebec, Canada

VISITING RESEARCHER – WATER QUALITY DIVISION

Project: Genetic appearance of three pathogenic bacteria: *Campylobacter jejuni*, *Shigella* sp. and *Salmonella* s p. in waters of Quebec City, Canada

EDUCATION AND TRAINING

15/01/2017 – 12/12/2019 – Quebec, Canada

PHD IN WATER SCIENCES – Institut National de la Recherche Scientifique

Address 490 rue de la Couronne, Quebec, Canada | **Website** <https://inrs.ca/> |

Thesis Removal of ciprofloxacin and its metal complexes from wastewaters using various oxidation methods

24/02/2015 – 28/06/2016 – Gdansk, Poland

MASTER OF SCIENCE IN PHARMACEUTICAL BIOTECHNOLOGY – Gdansk University of Technology

Address Narutowicza 11/12, Gdansk, Poland | **Website** <https://pg.edu.pl/> |

Thesis Identification, comparison of genes and gene products encoding L- α -amino adipic aminotransferase

26/09/2010 – 25/01/2015 – Gdansk, Poland

BACHELOR OF SCIENCE (ENGINEER DEGREE) IN PHARMACEUTICAL BIOTECHNOLOGY – Gdansk University Of Technology

Address Narutowicza 11/12, Gdansk, Poland | **Website** <https://pg.edu.pl/> |

Thesis Spectral properties of *Candida albicans* Lys21p isoenzyme

LANGUAGE SKILLS

Mother tongue(s): **POLISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C1
FRENCH	B1	B1	B1	B1	B1

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

CONFERENCES AND SEMINARS

26/06/2022 – 30/06/2022 – Achalm, Germany

Chitosan-functionalized biochar for simultaneous sorption of ciprofloxacin and heavy metals in hybrid nanofiltration-adsorption process

Cuprys A., Ratnaweera H., Maletskyi Z, Nanofiltration 2022

12/08/2018 – 17/08/2018 – Montreal, Canada

Nanoencapsulation of enzymes from *Alcanivorax borkumensis* in chitosan-tripolyphosphate matrix

Kadri T., **Cuprys A.**, Rouissi T., Brar S.K., 18th International Biotechnology Symposium and Exhibition

31/10/2018 – 02/11/2018 – Montreal, Canada

Ciprofloxacin: its distribution during wastewater treatment and its potential removal improvement

Cuprys A., Brar S.K., Drogui P. The 2nd International Conference on Advanced Materials and Processes for Environment, Energy and Health

03/06/2018 – 05/06/2018 – Florence, Italy

Fluoroquinolones metal complexation and its environmental impacts

Cuprys A., Pulicharla R. Brar S.K., Drogui P., Verma M., Surampalli R.Y. , International Symposium on Metal Complexes

● **PUBLICATIONS**

Application of solar energy in modular drinking water treatment

Book chapter

<https://doi.org/10.1016/B978-0-323-85421-4.00014-0> – 2022

Kumar P., **Cuprys A.**, Brar, S.K. In: *Modular Treatment Approach for Drinking Water and Wastewater*, (Eds. Brar S.K., Kumar P., Cuprys A.). Elsevier, pages: 319-334

Insights into the Simultaneous Sorption of Ciprofloxacin and Heavy Metals Using Functionalized Biochar

Peer-reviewed journal publication

<https://doi.org/10.3390/w13192768> – 2021

Cuprys A., Maletskyi Z., Rouissi T., Ratnaweera H., Brar S.K., Knystautas E., Drogui P. *Water*, 13(19), 2768

Potential of agro-industrial produced laccase to remove ciprofloxacin

Peer-reviewed journal publication

<https://doi.org/10.1007/s11356-021-13578-2> – 2021

Cuprys A., Thomson, P., Suresh, G., Rouissi, T., Brar, S.K., Drogui, P. *Environmental Science and Pollution Research*, 29, pages 10112–10121

Influence of Metal Speciation in Wastewater Sludge on Antibiotic Distribution

Peer-reviewed journal publication

[https://doi.org/10.1061/\(ASCE\)HZ.2153-5515.0000592](https://doi.org/10.1061/(ASCE)HZ.2153-5515.0000592) – 2021

Cuprys A., Lecka J., Brar S.K., Rouissi T., Drogui P. *Journal of Hazardous, Toxic, and Radioactive Waste*, 25, Issue 2

Biodegradation of aflatoxin B1 with cell-free extracts of *Trametes versicolor* and *Bacillus subtilis*.

Peer-reviewed journal publication

<https://doi.org/10.1016/j.rvsc.2020.09.009> – 2020

Suresh G., Cabezudo I., Pulicharla R., **Cuprys A.**, Rouissi T., Brar S.K. *Research in Veterinary Science*, 133, pages 85–91.

Ciprofloxacin removal via sequential electro-oxidation and enzymatic oxidation

Peer-reviewed journal publication

<https://doi.org/10.1016/j.jhazmat.2019.121890> – 2020

Cuprys A., Thomson P., Ouarda Y., Suresh G., Rouissi T., Brar S.K., Drogui P., Surampalli R.Y. Journal of Hazardous Materials, 389,121890

Appearance of ciprofloxacin/chlortetracycline-resistant bacteria in waters of Québec City in Canada

Peer-reviewed journal publication

<https://doi.org/10.1016/j.jiph.2019.04.012> – 2019

Cuprys A., Lecka J., Proulx F., Brar S.K., Drogui P. Journal of infection and public health, 12 (6), pages: 897-899

Ciprofloxacin-metal complexes –stability and toxicity tests in the presence of humic substances

Peer-reviewed journal publication

<https://doi.org/10.1016/j.chemosphere.2018.03.117> – 2018

Cuprys A., Pulicharla R., Lecka J., Brar S.K., Drogui P., Surampalli R.Y. 202, Pages 549-559

Fluoroquinolones metal complexation and its environmental impacts

Peer-reviewed journal publication

<https://doi.org/10.1016/j.ccr.2018.05.019> – 2018

Cuprys A., Pulicharla R. Brar S.K, Drogui P., Verma M., Surampalli R.Y. Coordination Chemistry Reviews, 376, pages 46-61

Nanoencapsulation and release study of enzymes from *Alkanivorax borkumensis* in chitosan-tripolyphosphate formulation

Peer-reviewed journal publication

<https://doi.org/10.1016/j.bej.2018.05.013> – 2018

Kadri T., **Cuprys A.**, Rouissi T., Brar S.K., Daghrir R., Lauzon J-M. Biochemical Engineering Journal, 137, pages: 1-10

Microbial Degradation of Polyaromatic Hydrocarbons. In Environmental Contaminants: Ecological Implications and Management

Book chapter

https://doi.org/10.1007/978-981-13-7904-8_5 – 2019

Kadri T., **Cuprys A.**, Rouissi T., Brar S.K. In: *Microorganisms for Sustainability* (Eds. Bharagava R.), vol 14. Springer, pages: 101-117

Recent advances in oligonucleotide-based sensor technology for detection of endocrine-disrupting chemicals (EDC) in the environment.

Book chapter

<https://doi.org/10.1016/B978-0-12-814679-8.00007-8> – 2019

Gatel L., **Cuprys A.**, Kumar P., Suresh G., Bendourou F., Chaali M., Hegde K., Brar S.K. In: *Tools, Techniques and Protocols for Monitoring Environmental Contaminants* (Eds. Brar S.K., Hegde K., Pachapur V.L.). Elsevier, pages 147-167

Recent advances in nanomaterial-based sensors as tool for environmental monitoring

Book chapter

<https://doi.org/10.1016/B978-0-12-814679-8.00018-2> – 2019

Cuprys A., Suralikerimath N., Pachapur V.L., Hegde K., Brar S.K. In: *Tools, Techniques and Protocols for Monitoring Environmental Contaminants* (Eds. Brar S.K., Hegde K., Pachapur V.L.). Elsevier, pages 391-403

Occurrence and Treatment of Emerging Contaminants in Drinking Water

Book chapter
2018

Anwar Sadmani A H.M., Lee, W. H., **Cuprys, A.**, Brar, S.K.. In: *Handbook of Environmental Engineering*. (Eds. R.Y. Surampalli, S. K. Brar, T.C. Zhang, K. Hegde, R. Pulicharla, M. Verma). McGraw-Hill Global Education Holdings, LLC

● **BOOK EDITOR**

2022

Modular Treatment Approach for Drinking Water and Wastewater

Edited by: Satinder Kaur Brar, Pratik Kumar and **Agnieszka Cuprys**
Elsevier, ISBN 978-0-323-85421-4
<https://doi.org/10.1016/C2020-0-02087-6>

● **SCIENTIFIC REVIEWING ACTIVITIES**

Scientific reviewer

Biochar, Biomass Conversion and Biorefinery, *Frontiers in Water*, section Water and Human Systems, *International Journal of Environmental Research and Public Health*, Water, Air & Soil Pollution, Data in Brief

● **HONOURS AND AWARDS**

29/11/2020

International Outreach Award – Institute National de la Recherche Scientifique, Canada

● **NETWORKS AND MEMBERSHIPS**

01/08/2022 – CURRENT

My PhD Mentor

Norway
Ambassador at Norwegian University of Life Sciences (Ås, Norway)
<https://www.comitatodottorato.org/my-phd-mentor-2/>

01/10/2021 – CURRENT

Pint of Science Norway

Norway
Central Board Member (Social Media responsible)
<https://www.pintofscience.no/>

08/09/2021 – CURRENT

International Water Association

01/09/2021 – CURRENT

Pint of Science Norway

Norway

Event manager in Oslo team

16/01/2017 – CURRENT

Centre de recherche sur l'eau

Canada <https://centreau.org/membres/cuprys-agnieszka/>

● **FELLOWSHIPS AND SCHOLARSHIPS**

01/06/2021 – CURRENT

Marie Skłodowska-Curie Actions (MSCA) Individual Fellowships

ECO-SOS: Development of Emerging Contaminants – Hybrid Soft Sensor for on-line monitoring of contaminants of emerging concern in water
Norwegian University of Life Sciences, Norway

05/08/2019 – 07/10/2019

Mitacs Globalink Research Internship

Project: Functionalized adsorbent for simultaneous removal of heavy metal ions and ciprofloxacin
Host university: Norwegian University of Life Sciences, Norway

07/09/2015 – 23/01/2016

LLP Erasmus

Host university: CEU Universidad San Pablo, Spain

● **SUPERVISING AND MENTORING ACTIVITIES**

2022

Philip Lein (MSc, co-supervision)

Thesis title: Electrochemical oxidation and UV-VIS quantification of per- and polyfluoroalkyl substances (PFAS) for wastewater treatment
NMBU, Ås, Norway

2022

Noor al-Bedani (MSc, co-supervision)

Thesis title: The Prospect of Using Nature-Derived Chemicals for Removing Metals from Acid Mine Drainage in Folldal, Norway
NMBU, Ås, Norway

2022

Jonas Granøien (MSc, co-supervision)

Thesis title: Filter materials for removal of heavy metals from road runoff
NMBU, Ås, Norway

2018 – 2019

Paisley Thomson (PhD student, project supervision)

Project topic: Enzymatic and electrochemical techniques to degrade ciprofloxacin
INRS-ETE, Quebec, Canada

2019

Natalia Ilieva (MSc internship, co-supervision)

Project topic: Removal of ciprofloxacin from water via electrocoagulation
NMBU, Ås, Norway

2019

Mihaela Bectoras (BSc internship, co-supervision)

Project topic: Comparison study between Granular Activated Carbon and Pig Manure Biochar in pollutant removal
NMBU, Ås, Norway

● **TEACHING ACTIVITIES**

2021 – 2022

THT311 Water Resource Management and Purification Technology

Co-instructor
Norwegian University of Life Science, Ås, Norway

2022

THT271 Water and wastewater treatment technology

Co-instructor
Norwegian University of Life Science, Ås, Norway

2022

THT313 Water management in colder climates

Co-instructor
Norwegian University of Life Science, Ås, Norway

2019

Emerging contaminants course for graduate students

Co-instructor
York University, Toronto, Canada