

Jurga Būdienė

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

2002 - 2007 Vilnius University - Institute of Chemistry - joint doctoral studies.
Doctorate in Chemistry (03 P) in the Physical Sciences.
Doctoral Thesis: "Cathodic processes in solutions of Cu (II) and oxyacid complexes".

1999 – 2001 Vilnius University, Faculty of Chemistry, specialty of chemistry (master's studies)
Master's thesis: "Investigations of structural, mechanical and optical properties of silver electrodeposits"

1995 – 1999 Vilnius University, Faculty of Chemistry, specialty of chemistry (Bachelor studies)
Bachelor thesis: „Preparation and morphology of velamentous silver coatings from dicyanoargentate-rhodanide electrolytes“.

PROFESSIONAL EXPERIENCE

2019 04 – until now **Senior researcher**
Nature Reaserch Center, Institute of Ecology, Laboratory of Chemical and Behavioral Ecology

2007 07 – until now **Researcher**
Center for Physical Science and Technology (former Institute of Chemistry), Department of Organic Chemistry, Laboratory of Organic Analysis

2014 08 – until now **Chemist - Analytic**
JSC Kvapu namai

2002 02 – 2007 07 **PhD student/senior laboratory assistant**
Institute of Chemistry

2001 09 – 2002 06 **Senior laboratory assistant**
Vilnius University, Faculty of Chemistry, Department of General Chemistry

RESEARCH INTERESTS

The main research activity is related to the study of secondary metabolites of aromatic and medicinal plants using gas and liquid chromatography methods with mass spectrometry. Antioxidant, antibacterial, antifungal properties, and toxicity studies of bioactive compounds. Determination of organic volatile and non - volatile compounds in various matrices.

PUBLICATIONS

Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science“ database (with citation index):

1. Garjonyte, R.; **Budiene, J.**; Labanauskas, L.; Judzentiene, A. In Vitro Antioxidant and Prooxidant Activities of Red Raspberry (*Rubus idaeus* L.) Stem Extracts. *Molecules* **2022**, *27*, 4073. <https://doi.org/10.3390/molecules27134073>
2. Judzentiene, A.; **Budiene, J.**; Nedveckyte, I.; Garjonyte, R. Antioxidant and Toxic Activity of *Helichrysum arenarium* (L.) Moench and *Helichrysum italicum* (Roth) G. Don Essential Oils and Extracts. *Molecules* **2022**, *27*, 1311. <https://doi.org/10.3390/molecules27041311>
3. Blažytė-Čereškienė, L.; Būda, V.; Apšegaitė, V.; Radžiutė, S.; **Būdienė, J.**; Aleknavičius, D.; Mozūraitis, R. Sea Buckthorn *Hippophae rhamnoides* and Fruit Flies *Rhagoletis batava*: Search for Volatile Semiochemicals Involved in Pest Attraction. *Horticulturae* **2022**, *8*, 179. <https://doi.org/10.3390/horticulturae8020179>
4. Mozūraitis, R.; Apšegaitė, V.; Radžiutė, S.; Aleknavičius, D.; **Būdienė, J.**; Stanevičienė, R.; Blažytė-Čereškienė, L.; Servienė, E.; Būda, V. Volatiles Produced by Yeasts Related to *Prunus avium* and *P. cerasus* Fruits and Their Potentials to Modulate the Behaviour of the Pest *Rhagoletis cerasi* Fruit Flies. *J. Fungi* **2022**, *8*, 95. <https://doi.org/10.3390/jof8020095>
5. **Budiene, J.**; Guclu, G.; Oussou, K.F.; Kelebek, H.; Selli, S. Elucidation of Volatiles, Anthocyanins, Antioxidant and Sensory Properties of cv. Caner Pomegranate (*Punica granatum* L.) Juices Produced from Three Juice Extraction Methods. *Foods* **2021**, *10*, 1497. <https://doi.org/10.3390/foods10071497>

Scientific articles published in conference proceedings, indexed in „Clarivate Analytics Web of Science“ database:

Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science“ database (without citation index):

Other reviewed scientific publications (books, books' chapters, collections of articles, articles, textbooks and etc.):

Reviewed scientific articles, published in Lithuania:

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

2019 – 2021 **Senior researcher** in the project "The role of metabolites in the tritrophic plant-microorganism-phytophage ecosystem" ("DOT_METABOL", Contract with the Lithuanian Research Council No. DOTSUT-12 (09.3.3.3-LMT-K-712-01-01-009, 2018-01-02)

INTERNSHIP AND TRAINING

2012 -2013 Scientific and Technological Research Council of Turkey (TUBITAK) for a short (4 months) research internship (Research Fellowship for Foreign Citizens, B.02.1.TBT.0.06.01-216.01-5 / 282) from 01.10.2012 to 14.02.2013.

PARTICIPATION IN SCIENTIFIC CONFERENCES

International scientific conferences:

1. **Budiene, J.**, Judzentiene, A., Daunoraviciene, R. Analysis of lavender (*Lavandula angustifolia*) essential oil market in Lithuania in 2021. *52nd International Symposium on Essential Oils*. September 4-7, **2022**, Wroclaw, Poland. Abstract Book, p. 143, ISBN 978-83-926553-1-2.
2. **Budiene, J.**, Kleponiene, A., Judzentiene, A., Linkeviciute, A. Composition of essential oils of the flowers and leaves of the fireweed (*Chamerion angustifolium* (L.) Holub) growing in the wild in Lithuania. *52nd International Symposium on Essential Oils*. September 4-7, **2022**, Wroclaw, Poland. Abstract Book, p. 142, ISBN 978-83-926553-1-2.

PARTICIPATION IN THE STUDY PROCESS

Supervision of bachelor and master students:

Agne Kleponienė Master's thesis: "Phytochemical studies on the narrow-leaved 2020 – 2021 fireweed (*Chamerion angustifolium* (L.) Holub) growing in Lithuania" (VU GMC,)

OTHERS

Permanent member of the Scientific Committee of the International Conferences:

“International Conference on Raw Materials to Processed Foods”

“International Conference for Students of Physics and Natural Sciences Open Readings”.