

# Edina Jaksics

## Basic data

**Department:** Department of Applied Biotechnology and Food Science

**Position:** Senior Lecturer

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## Links

**MTMT:** <https://m2.mtmt.hu/gui2/?type=authors&mode=browse&sel=authors10067127>

**Linkedin:** <https://www.linkedin.com/in/edina-jaksics-0493972b6/>

**ResearchGate:** [https://www.researchgate.net/profile/Edina-Jaksics?ev=hdr\\_xprf](https://www.researchgate.net/profile/Edina-Jaksics?ev=hdr_xprf)

**MTA:** [https://mta.hu/koztestuleti\\_tagok?PersonId=10070078](https://mta.hu/koztestuleti_tagok?PersonId=10070078)

## Introduction

### Short introduction:

Edina Jaksics joined the Grain Science and Food Quality Research Group in 2016 and began her research work. She received her BA in Bioengineering in January 2017 and her MA in Bioengineering in 2019. She began her doctoral studies in January 2019 at the György Oláh Doctoral School and received her doctoral degree in March 2024. Her main research area is the investigation of the compositional and rheological properties of cereals, as well as the mapping of the macromolecular properties underlying the rheological properties. In addition to research, it is increasingly playing a role in educational tasks related to food analytics and food technology.

### Education:

2019-2024 Budapest University of Technology and Economics (BUTE), George A. Oláh Doctoral School, Budapest, Hungary, PhD

2017-2019 Budapest University of Technology and Economics (BUTE), Budapest, Hungary, MSc, Bioengineering

2013-2017 Budapest University of Technology and Economics (BUTE), Budapest, Hungary, BSc, Bioengineering

2009-2013 Gymnasium of Cistercian Order of the Louis the Great, Pécs, Hungary

**Professional experience:**

2020 Institute of Agrochemistry and Food Technology (Valencia, Spain), Practical work in a food development and research laboratory

2018 Budapest University of Technology and Economics (BUTE), Faculty of Chemical Technology and Biotechnology (Budapest, Hungary), Quality package

2018 BOKU (University of Natural Resources and Life Sciences, Vienna, Austria), Completion of an Abroad Internship in Food Technology

2017 Department of Food Analysis, Food Science Research Institute (Budapest, Hungary), Completion of an Internship in development of biosensor

2016 BOKU (University of Natural Resources and Life Sciences, Vienna, Austria), A week-long Practise Course in Food Technology

2016 The National Food Chain Safety Office (NFC SO) (Budapest, Hungary), Completion of Internship in Food Microbiology and Toxicology

**Research topics:**

Characterization of the compositional and technological properties of cereals, interpretation of the relationships between function and composition

Development of a methodology for isolating plant proteins, characterizing the composition and functional properties of proteins

**Research projects:**

-New aspects in wheat breeding: improvement of the bioactive component composition and its effects“ (Project ID: OTKA K112179)

- BME-Biotechnology FIKP grant of EMMI (BME FIKP-BIO)

-“Improving gluten-free dough by a novel hemicellulose network“ (Project ID: OTKA ANN 114554)

- “Fundamental study on the structure, rheological and functional properties of model gluten-free dough and products based on modified carbohydrate systems“ (Project ID: TÉT\_15-1-2016-0066)

-“Developments to improve the conditions of human utilization of oats and rye in terms of food safety, agrotechniques, processing technology and nutritional value“ (Project ID: 2017-1.3.1-VKE-2017-00004)

- BME-EGA-02 - TKP2021 by the Ministry for Innovation and Technology of Hungary from the National Research, Development and Innovation Fund.

**Awards, honours:**

2023 – Ernő Pungér pre-doc scholarship

2019 – Short term scientific mission (STSM) scholarship

**Scholarships, scientific trips:**

2020 - Second place at the 10th Nutrition Research Doctoral Conference

2018 - Second place at the XXII. National Scientific Student Association Conference of the Hungarian Food Science and Technology Association in the “Nutrition Science” section

**Professional and scientific public activities:**

Member of the Food Science Committee of the Hungarian Academy of Sciences