

## Kinga Barbara Graniczowska, M.Sc.

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[Google Scholar Profile](#)  
(859) 285-7195

### EDUCATION

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2016 - present	<b>PhD candidate</b> , Department of Biology, University of Kentucky, Lexington, KY, USA <b>Advisor:</b> Dr. Vincent Cassone
2013 - 2014	<b>Master of Biotechnology</b> , University of Agriculture in Krakow, Poland <b>Thesis:</b> Impact of Processing on (masked) <i>Fusarium</i> Mycotoxins in the Production of Beer
2009 - 2013	<b>Bachelor of Biotechnology</b> , University of Agriculture in Krakow, Poland <b>Thesis:</b> Detection of Genetically Modified Plants Using PCR Method to Detect the T-DNA Border Sequences

### TEACHING EXPERIENCE

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Fall 2018- present	<b>Research assistant</b> Teaching good laboratory practice, basic microbiology, molecular biology, and chronobiology to several undergraduate researchers
Spring 2017, Fall 2020	<b>Teaching assistant</b> , Taught undergraduate level microbiology laboratory course, University of Kentucky, Lexington, Kentucky
2015- 2016	<b>Laboratory assistant</b> Taught good laboratory practice and mycotoxins analysis to several graduate students and supervised a graduate student, Tuur Mertens, while performing his own research project and master thesis writing, Ghent University (UGent), Ghent, Belgium

### RESEARCH EXPERIENCE

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2016- present	<b>Research assistant</b> Investigating circadian clock and melatonin sensitivity mechanism in human gut commensal bacterium <i>Klebsiella (née Enterobacter) aerogenes</i>
2015 - 2016	<b>Research assistant</b> Designed molecularly imprinted polymers for capacitance biosensor detection of amphetamine precursors in sewage, Laboratory of Food Analysis Department of Bioanalysis, Ghent University, Ghent, Belgium
2015	<b>Laboratory assistant</b> Developed a rapid membrane-based immunoassay for simultaneous detection of several mycotoxins in different matrixes, Laboratory of Food Analysis Department of Bioanalysis, Ghent University, Belgium
Summer 2012	<b>Internship:</b> Laboratory of Plant Pathogenesis, Institute of Biochemistry and Biophysics Polish Academy of Sciences, Warsaw, Poland

### PEER-REVIEWED PUBLICATIONS

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1. Paulose JK, Cassone CV, **Graniczowska KB**, Cassone VM. Entrainment of the Circadian Clock of the Enteric Bacterium *Klebsiella aerogenes* by Temperature Cycles. *iScience*. 2019; 19:1202-13.
2. **Graniczowska KB**, Pütz M, Hauser FM, De Saeger S, Beloglazova NV. Capacitive Sensing of N-formylamphetamine Based on Immobilized Molecular Imprinted Polymers. *Biosensors and Bioelectronics*. 2017;92:741-7.
3. Beloglazova NV, **Graniczowska KB**, Njumbe Ediage E, Averkieva O, De Saeger S. Sensitive Flow-through Immunoassay for Rapid Multiplex Determination of Cereal-borne Mycotoxins in Feed and Feed Ingredients. *Journal of Agricultural and Food Chemistry*. 2017; 65 (33):7131-37.
4. Boevre MD, **Graniczowska KB**, Saeger SD. Metabolism of Modified Mycotoxins Studied Through *In Vitro* and *In Vivo* Models: An overview. *Toxicology Letters*. 2015; 233(1):24-8.

### Papers and book chapters in preparation (drafts available upon request)

1. **Graniczkowska KB**, Paulose JK, Cassone CV, Harpole CE, Pendergast JS, Cassone VM. *Klebsiella aerogenes* Expresses Circadian Rhythmicity Within the Gastrointestinal System of The Laboratory Mouse. *Frontiers Cellular and Infection Microbiology*
2. **Graniczkowska KB**, McDonald J\*, Cassone VM. RNA-Seq of *K. aerogenes* Reveals Melatonin Induced Transcriptional Changes and Noncoding RNAs in Different Growth Stages
3. **Graniczkowska KB**, Cassone VM. Circadian Organization of the Gut Commensal Bacterium *Klebsiella aerogenes* (book chapter in the *Circadian Rhythms in Bacteria and Microbiomes* by Springer, co-editors: Johnson C. & Rust M.)

\*Indicates undergraduate student co-author

### ORAL AND POSTER PRESENTATIONS

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**Graniczkowska KB**, New insights into the circadian clock of *Klebsiella aerogenes*, invited talk, Department of Entomology and Nematology, University of California Davis, 2020 February 6, Davis, CA.

Paulose JK, Cassone CV, **Graniczkowska KB**, Cassone VM. Circadian Rhythms in the Human Gut Bacterium *Klebsiella aerogenes*, poster, ASM Microbe, 2019 June 22<sup>nd</sup>; San Francisco, CA.

**Graniczkowska KB**, Circadian clock of *Klebsiella aerogenes*, oral presentation, Rhythms in the Southeast Region (RISER), 2018 May 31<sup>st</sup>; Atlanta, GA

**Graniczkowska KB**, Paulose JK, Cassone VM. Circadian clock of *Enterobacter aerogenes*, poster, Society for Research on Biological Rhythms, 2018 May 12-16; Amelia Island, FL.

**Graniczkowska KB**, Circadian clock of *Enterobacter aerogenes*, Graduate student research seminar, Department of Biology, *University of Kentucky*. 2018 April 17; Lexington, KY.

**Graniczkowska KB**, Paulose JK, Cassone VM. Investigation of *Enterobacter aerogenes* circadian clock, poster, presented at Rhythms in the Southeast Region, 2017 May 20th; Murfreesboro, TN.

**Graniczkowska KB**, Cassone VM. A new look at circadian genomics of the chick pineal gland *in vitro*, poster, 16th Annual UT-KBRIN Bioinformatics Summit, 2017 April 21-23; Montgomery Bell State Park Burns, TN.

**Graniczkowska KB**, Beloglazova NV, De Saeger S. Molecularly imprinted polymers for capacitance biosensor detection of amphetamine precursors in sewage, poster, 27th World Congress on Biosensors Gothenburg 2016 May 25–27, Sweden.

**Graniczkowska KB**, Beloglazova NV, Averkiewa O, De Saeger S. Optimization and extension of a membrane based multi-analyte flow-through immunoassay prototype for mycotoxin quick testing for market applications, Rapid Methods Europe Conference, poster, 2015 April 22<sup>nd</sup>; Noordwijkerhout, the Netherlands.

### TRAININGS & CAREER DEVELOPMENT

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Spring 2020	College Teaching and Learning - EPE 672 (3 credits) <i>University of Kentucky</i>
Summer 2019	Advanced Bacterial Genetics (ABG) 2019, Cold Spring Harbor Laboratory, NY.
Spring 2019	Seminar in College Teaching – GS610 (1 credit) <i>University of Kentucky</i>
April 24, 2020	Engaging Students and Making Classrooms Fair and Inclusive: Cross-Disciplinary Tools, Insights, and Strategies to Promote Student Success. Workshops by Dr. K. Tanner.
Spring 2018	Academic Speaking and Listening for International Graduate Students ESL 093 (3 credits) <i>University of Kentucky</i>
Fall 2017	Preparing Future Faculty - GS650 (2 credits) <i>University of Kentucky</i>

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Summer 2017	Essentials of Next Generation Sequencing, KBRIN, Lexington, KY
Spring 2017	Academic Writing for International Graduate Students- ESL 095 (3 credits) <i>University of Kentucky</i>
Summer 2014	Intensive training on mycotoxins analysis, Laboratory of food analysis, Ghent University

## AWARDS

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Biology Morgan Fellowships (*University of Kentucky*) Fall 2019- \$12000  
 Scherr Special Opportunity Award (*U. of Kentucky*): Used for Advanced Bacterial Genetics 2019- \$2500  
 2018 SRBR Merit Award (*Society for Research on Biological Rhythms*) - \$300  
 The Trainee and Young Faculty Diversity Enhancement Fellowships Award (*SRBR 2018*) - \$700  
 Biology Graduate Student Travel Award (*U. of Kentucky*): Used for SRBR 2018 - \$700  
 Graduate School Travel Award (*U. of Kentucky*): Used for RISER 2017 - \$400  
 Ribble Graduate Award (*U. of Kentucky*) Summer 2017- \$1500  
 Faculty Research Fund for outgoing mobility (*Ghent University*) May 2016- 653€ Erasmus student exchange grant (*University of Agriculture in Kraków*) February-September 2014 -3200 €

## ACADEMIC SERVICE

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**Integrative Biology Search Committee Graduate representative**, Department of Biology, *U. of Kentucky*, 2019  
**Biology Graduate Student Association Treasurer**, Department of Biology, *U. of Kentucky*, 2019  
**Biotechnology Senate Delegate**- Interfaculty Studies, *U. of Agriculture* Senate, 2012  
**President**, Faculty Student Council of Biotechnology, *U. of Agriculture* in Krakow, 2013  
**Vice-president**, Faculty Student Council of Biotechnology, *U. of Agriculture* in Krakow, 2011

## STUDENTS MENTORED

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**Braxton Foote** Bio395 Independent Research, undergraduate student (Fall 2019)  
**Jesse McDonald** Bio395 Independent Research, undergraduate student, *U. of Kentucky* (2019)  
**Katelyn Fields** Bio395 Independent Research, undergraduate student, *U. of Kentucky* (2019)  
**Michelle Marti** Bio395 Independent Research, undergraduate student, *U. of Kentucky* (Spring 2018), currently a PhD student in Infectious disease and Microbiology program at the University of Pittsburgh.  
**Weston Owen** Bio395 student at Cassone Lab, University of Kentucky (Spring 2017)  
**Laura Nsuamani** an exchange Master's student from University of Camerino, UGent, Belgium (2016)  
**Tuur Mertens** Master of Engineering (M.Eng.) Food Science and Technology (2016), currently a Ph.D. student at the Technische Universität Berlin, Germany  
**Anna Raysyan** Master of Pharmacy (2015) summer intern at Ghent University, currently a Ph.D. student at the Bundesanstalt für Materialforschung und –prüfung Berlin, Germany  
**Anna Gordienko** an exchange Master's student from Saratov State University, UGent, Belgium (2015)

## REFERENCES

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Dr. Vincent Cassone Department Chair University of Kentucky, Lexington KY vincent.cassone@uky.edu	Dr. Jeramiah Smith Associate Professor University of Kentucky, Lexington KY jjsmit3@uky.edu
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