

Mika Zagrobelny
Forsker
Molecular Aging Program

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Education

2016: 1 day course in Pedagogic supervision
2016: 6 day course in Project Management of Research Projects (Rambøll)
2015: ½ day course in Responsible conduct of Research (RCR)
2015: 3 day course in supervision of Ph.D. students
2012: 1 day course in "Protein Structure Analysis" in Gent, Belgium.
2010: Talent development course at University of Copenhagen.
2009-2010: Higher education teaching course from University of Copenhagen.
2007: Ph.D. from Faculty of Life Science, University of Copenhagen. *Cyanogenesis in Arthropods*.
2002: M.Sc. in biology from University of Copenhagen. *Survey of a family of non-LTR retrotransposons in Caenorhabditis elegans and Caenorhabditis briggsae*.
1996: "Matematisk studentereksamen" (High school) graduation from Espergærde Gymnasium.
1993: "Folkeskolen" 9th grade graduation from Borupgårdsskolen, Snekkersten.

Employment

2014-: Associate Professor at Faculty of Science, University of Copenhagen.
2007-2013: Post Doctoral Fellow at Faculty of Life Science (Now Faculty of Science), University of Copenhagen.
2003: Research assistant at KVL, Copenhagen. (Later Faculty of Life Science, now Faculty of Science, University of Copenhagen) until awarded Ph.D. stipend.

Supervision

2016: Main supervisor of bachelor-student (Rojan Demirtas): *How does toxicity vary within Heliconius?*
2016: Supervision of colleague (Irina Pateraki) taking the Higher education teaching course from University of Copenhagen
2015: Main supervisor of 5 project students (9 weeks)
2014-2017: Co-supervisor of two PhD students (Mikael Kryger Jensen and Érika Cristina Pinheiro de Castro).
2013: Co-supervisor of bachelor-student (Ditte Bøgeskov Hansen): *Cyanogenic glucosides in sugarcane*.
2010-2014: Co-supervisor of two PhD students, Stefan Pentzold: *Insect counter-adaptations to plant cyanogenic glucosides*, and Joel Fürstenberg-Hägg: *Interplay between de novo biosynthesis and sequestration of cyanogenic glucosides in Arthropods*.
2010: Co-supervisor of project-student (15 ECTS) Geziel Barbosa Aguilar: *CYP405A2: Characterization of three intronic regions in the Zygaena burnet moth*.
2009: Co-supervisor of project-student (15 ECTS) Laura Martín Mitjana: *Optimization of DNA extraction and cloning of cytochromes P450 in Zygaenidae*.
2007: Co-supervisor for master-student Linea Rigét Alsing: *Cyanogenic glucosides in Zygaena filipendulae*.
2002: Supervisor for a team of students on the project: *Transcriptional activity of Sam, Frodo & Merry retrotransposons in response to heat shock* (6 weeks).

Teaching

2016: Copenhagen Summer University, Bioinformatik – forstå de hyppigst anvendte værktøjer (Highschool teachers): Lectures and exercises in database searches, sequence analysis, construction and modification of phylogenetic trees, 3 days. Course responsible and performing all teaching.
2016: Cool climate viticulture and enology (M.Sc. level): 1 lecture: *Grapepest management*
2013+2016: Human benefits from Insects (M.Sc. level): 1 lecture: *Insects as producers of specialized chemical compounds*
2013-2015: Copenhagen Summer University, Biotechnology and Bioinformatics (Highschool teachers): Lectures and exercises in database searches, sequence analysis, construction and modification of phylogenetic trees, 5 days. Responsible for bioinformatics teaching, both lectures and exercises. Course responsible in 2014+2015.
2010-2016: Bioinformatics 1 (B.Sc. level): Exercises in sequence analysis, construction and modification of phylogenetic trees (planning (incl. exam), computer exercises, 1 lecture, oral exams, 4 weeks a year).
2003-2013: Biochemistry 2 (B.Sc. level): Biosynthesis, function and degradation of cyanogenic glycosides (Planning, laboratory exercises and correction of reports, 1 week a year).

Dissemination

2016: Invited oral presentation at the Sixth National Moth Recorders' Meeting in Birmingham, UK: *Burnets, cyanide bombs and colonisation*
2015: Invited oral presentation at the Entomological Society Denmark: *En kemisk-økologisk historie om co-evolution mellem køllesværmere og deres værtsplanter*

2014: Filmed talk aimed at high school students and teachers: *Sommerfuglæder gift til forsvar -Køllesværmerenog kællingetand*. <http://video.ku.dk/video/9974871/sommerfugle-aeder-gift-til-forsvar>

2013: Talk at high school: *Naturstoffer, kemisk krigsførelse og genteknologi*.

2007-2014: Provided Zygaena larvae, boxes, food-plants and information about rearing to the kindergarden "Vandfaldet" and the primary school "Lærkeskolen" in Stenløse.

2006: Visited Max Planck institute for Chemical Ecology in Jena, Germany and gave an oral presentation (2 days).

2003-2010: Culture Night Copenhagen: Plants that fight back – picky insects (Laboratory exercises and planning, 1 day a year).

2003-2016: High school visits: Biotechnology, detection of genes with PCR (Oral presentations and laboratory exercises, 2weeks a year) Course responsible since 2009.

Conferences

2016: "15th international symposium on Zygaenidae" in Mals, Italy (2 invited oral presentations).

2015: ISCE 2015 (31st conference of the International Society of Chemical Ecology) in Stockholm, Sweden (oral presentation and poster).

2015: Plant-Insect-Microbe Interactions Symposium in Denmark.

2014: "5th Danish Symposium on Metabolomics" in Denmark.

2014: "14th international symposium on Zygaenidae" on Mull, Scotland (3 invited oral presentations).

2013: Gordon Research Conference "Plant-Herbivore interactions" in California, USA (poster).

2012: "13th international symposium on Zygaenidae" in Innsbruck, Austria (2 invited oral presentations).

2012: "Copenhagenomics 2012" in Denmark.

2011: "Sixth International Symposium on Molecular Insect Science" in Amsterdam, Holland (Invited oral presentation and poster).

2010: "12th international symposium on Zygaenidae" in Hatay, Turkey (Invited oral presentation).

2010: Gordon Research Conference "Plant-Herbivore interactions" in Texas, USA (poster).

2010-2016: Yearly conference "Plant Biotech Denmark meeting" in Denmark (poster each year, chair of a session in 2016).

2009: "VI-TH International Conference on Arthropods: Chemical, Physiological, Biotechnological and Environmental Aspects" in Ochotnica Dolna, Poland (Invited oral presentation and chair of a session).

2006: "10th international symposium on Zygaenidae" in Lyon, France (Invited oral presentation).

2006: "22rd Annual Meeting of the International Society of Chemical Ecology ISCE" in Barcelona, Spain (poster).

2004: Gordon Research Conference "Plant-Herbivore interactions" in California, USA (poster).

2001: European Society of Evolutionary Biology (ESEB) conference in Århus, Denmark.

Funding

2013: Co-applicant on application to the Villum foundation (Denmark) (30 mill. kr.), Title: *Bioactive Plants II: Plant plasticity*

2013: Co-applicant on application for a large project to FNU (The Danish Council for Independent Research, Natural Sciences) (6.5 mill. Kr.), title: *Evolution of Chemical Defence in Butterflies and Moths*

2007: Co-applicant on application to the Carlsberg foundation (150.000 Kr.), title: *Which genes are active in the chemical defense of the six-spotted burnet moth?*

Main Collaborations

2016-: Feyereisen R.: Evolution of chemical defence in insects. Affiliated professor from Institut National de la Recherche Agronomique (INRA), France.

2015-: Jensen, AB.: The importance of ingested cyanogenic glucosides for bee health. University of Copenhagen, DK.

2014-: Briolat E., Stevens M.: Warning coloration in different life stages of Zygaenid moths, and its role in male-female communication. University of Exeter, UK.

2014-: Cryle M.: Crystallization of P450 enzymes from plants and insects involved in the biosynthesis of cyanogenic glucosides. Max Planck Institute, Heidelberg, Germany.

2013-: Cardoso MZ.: Occurrence and biosynthesis of cyanogenic glucosides in Heliconius butterflies and their foodplants. Botanica, Ecologia e Zoologia, Centro de Biociencias, Universidade Federal do Rio Grande do Norte, Natal, Brazil.

2011-2013: Feyereisen R.: *de novo* biosynthesis and sequestration of cyanogenic glucosides in *Z. filipendulae*. Visiting professor from Institut National de la Recherche Agronomique (INRA), France.

2009-: Nakonieczny M.¹, Kedziorski A.¹, Debinsky DM.², Matter S.³: Occurrence and biosynthesis of hydroxynitrile glucosides in Parnassius (Papilionidae) butterflies and their food plants. ¹Department of Animal Physiology & Ecotoxicology, University of Silesia, Poland. ²Ecology, Evolution, and Organismal Biology, Iowa State University, USA. ³Department of Biological Sciences, University of Cincinnati, USA

2006-2009: Dreon AL., Gomiero T., Paoletti MG.: Cyanogenic glucosides in edible insects. Laboratory of Agroecology and Ethnobiology, Padova University, Italy.

Career breaks

2007-2008: Maternity leave (26-10-2007 until 1-09-2008)

2004-2005: Maternity leave (1-06-2004 until 09-05-2005)

Other achievements

2016-: Member of the departmental Ph.D. Committee, University of Copenhagen, Denmark

2014-: Member of the section Coordination Group, University of Copenhagen, Denmark

2012: 1 day first aid course.

2011: Course for members of liaison committees.

2010-2012: Deputy member of the local liaison committee.

2007-2009: Board member in the kindergarden "Blåmejsen" in Stenløse.

2003: 12 hour first aid course.

1996: Six weeks of voluntary unpaid work for the Australian Trust for Conservation Volunteers (ATCV) in Northern Territory, Australia.

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