



Dr Agata Kołodziejczyk

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EXPERIENCE and EDUCATION

2016 - present - Co-founder of the Space Garden Company, Research and Development Executive Director (www.space.garden , www.lunares.space)

2015-2017 - Postdoc at Advanced Concepts Team of European Space Agency (www.act.esa.int) (leaders of the research group: Leopold Summerer and Dario Izzo), Netherlands

2013-2015 - Postdoc at Evolutionary Physiology Group and Institute of Neuroanatomy, (prof. Zuzanna Setkowicz), Jagiellonian University, Poland

2005-2011 - PhD student at Institute of Functional Morphology, Zoology Department Stockholms University, Sweden, supervisor: prof. Dick R. Nassel, Doctoral thesis: "Chemical circuitry in the visual system of the fruitfly, *Drosophila melanogaster*".

2000-2005 - Master student in Biology, Department of Zoology, Jagiellonian University, Poland, supervisor: prof. Elżbieta Pyza, Master Thesis: "DLG abundance in tetraedric synapses in lamina of the visual system of *Drosophila melanogaster*"

2003-2005 - Teachers' Training Center, UJ

1996-2000 - IX High School C.K. Norwid in Częstochowa

1991-1999 - I and II level Music School, Częstochowa (piano)

ACTIVITIES AND SOCIETIES

2017-present - Advisory Board Member of Canada Research Center (www.canadaresearchcentre.ca)

2017-present - Advisory Board Member of India Research Center (www.indiaresearchcentre.org)

2014-present - Board Member of forScience Foundation (www.forscience.pl)

2009-present - Scientific Conferences Coordinator at Astronomia Nova Association (www.astronomianova.org)

2004-2005 - Founder and head of the Interdisciplinary Section of Astrobiology at Jagiellonian University (ISA-UJ)

2003-2005 - Representative Orchestra at University of Science and Technology (AGH), Kraków (drummer, accordionist), www.oragh.agh.edu.pl

Scientific papers:

1. Enell et al., 2007. γ -Aminobutyric acid (GABA) signaling components in *Drosophila*: Immunocytochemical localization of GABAB receptors in relation to the GABAA receptor su...Nov 2007, The Journal of Comparative Neurology

2. Kolodziejczyk et al., 2008. Glutamate, GABA and Acetylcholine Signaling Components in the Lamina of the Drosophila Visual System PLoS ONE
3. Kolodziejczyk et al., 2009. Glutamate, GABA, acetylcholine and serotonin signaling components in the lamina of the Drosophila visual system Journal of Neurogenetics
4. Kolodziejczyk et al., 2011. A novel wide-field neuron with branches in the lamina of the Drosophila visual system expresses myoinhibitory peptide and may be associated with the c... Cell and Tissue Research
5. Kolodziejczyk et al., 2011. Myoinhibitory peptide (MIP) immunoreactivity in the visual system of the blowfly Calliphora vomitoria in relation to putative clock neurons and seroto... Cell and Tissue Research
6. Gmeiner et al., 2012. A function of GABA(B) receptors in sleep maintenance in Drosophila melanogaster Journal of Neurogenetics
7. Gmeiner et al., 2013. GABA(B) receptors play an essential role in maintaining sleep during the second half of the night in Drosophila melanogaster Journal of Experimental Biology
8. Kolodziejczyk et al., 2014. CONSTRUCTING SOFTWARE FOR ANALYSIS OF NEURON, GLIAL AND ENDOTHELIAL CELL NUMBERS AND DENSITY IN HISTOLOGICAL NISSL-STAINED RODENT BRAIN TISSUE Journal of Medical Informatics & Technologies
9. Papaj A., Weszka P., Bochenski M., Michalek M., Kulak A., Kolodziejczyk A.M., Harasymczuk M., Broł T., Kycia R. et al., 2017. Stratospheric mission in search for the Schumann resonances - first iteration Paper Instrumentation and Methods for Astrophysics astro-ph.IM (link)
10. Rybak M., Kolodziejczyk A., Joniak T., Ratajczak I., Gąbka M., 2017. Bioaccumulation and toxicity studies of macro algae (Charophyceae) treated with aluminum: Experimental studies in the context of lake restoration. Ecotoxicology and Environmental Safety, vil.145, p.359-366

Books:

1. Kolodziejczyk A. Neurotransmitters and neuromodulators in the eye of the fruitfly. LAP LAMBERT Academic Publishing (March 14, 2012), ISBN-10: 384842925X, ISBN-13: 978-3848429257

Conference publications:

11. Kolodziejczyk, 2014. Current approach in Dynamics and Control of Space Systems
12. Hettrich et al., 2014. The Importance of Analog Planetary Research for Success and Safety of Human and Robotic Space Missions International Association for the Advancement of Space Safety
13. Kolodziejczyk et al., 2015. EXPOSURE OF TWO ECOLOGICALLY CONTRASTED MOSS SPECIES TO STRATOSPHERIC CONDITIONS: STRESS TOLERANCE AS A KEY TO SURVIVAL 66th International Astronautical Congress 2015
14. Kolodziejczyk et al., 2016. Bioreactors and biomaterials in space architecture International Conference on Environmental Systems
15. Bielicki et al., 2016. ANALOG SIMULATION OF A MISSION TO MARS - A CASE STUDY IN POLAND International Astronautical Congress 2016
16. Foing et al., 2016. DESIGN FOR THE FUTURE: FLEXHAB PROJECT, THE FUTURE LUNAR EXPLORATION HABITAT; M.A.R.S.; AND EXOHAB. International Astronautical Congress 2016
17. Vos H., Harasymczuk M., Kolodziejczyk, A. K., Krainski M., Davidova L., Mirino M., Casini A. and B., Foing, 2017. Field spectroscopy, imaging, and sampling at the Eifel MoonMars Analogue. Poster Lunar and Planetary Science XLVIII. (link)

18. Vos H., Kolodziejczyk, A. K., Harasymczuk M., Vago J. and B., Foing, 2017. Laboratory spectroscopy of minerals, water, organics and biomarkers. Poster Lunar and Planetary Science XLVIII. (link)
19. Kolodziejczyk, A. K., Harasymczuk M. and B., Foing, 2017. Terrestrialization of Isolated Habitats. Poster EGU2017 Proceedings p. 1356 (link)
20. Harasymczuk M., Kolodziejczyk A., Going B., Vos H., Mirino M. 2017. Operational Lessons Learned from human-robotic partnership in Exogeology Analog Extravehicular Simulation at Eifel Volcanic Region: ILEWG Euromoonmars, IAC-17, B3, IP, 13, x41593
21. Kolodziejczyk et al., 2017. M.A.R.S. Mission: First results from Robotics to Human Factors in Poland 2017. IAC-17,A3,2C,7,x38615
22. Mirino et al., 2017. Moon/Mars Astronauts Analogue Simulation: Educational project for University and High school. 68th International Astronautical Congress 2017. Paper ID: 37626

Awarded papers:

Kolodziejczyk et al., 2015. Mosses as candidates for stratospheric biomarkers

Kolodziejczyk et al., 2016. Biological stress in the stratosphere

Kolodziejczyk et al., 2017. Circadian Clock and Subjective Time Perception: A Simple Open Source Application for the Analysis of Induced Time Perception in Humans, 19th International Conference on Time Perception and Time Consciousness

Awards and scholarships:

2008 L&E Kinanders scholarship for the conference in Wurzburg, Germany

2011 Lilievalch J:ors scholarship for the conference in San Diego, USA

2013 Postdoctoral internship in „Ecology” project, Kraków, Poland

2013 Postdoctoral internship for young doctors in „Society-Environment-Technology” project, 2013-2015, Kraków, Poland

2013 Postdoctoral internship in Groningen, Netherlands

2013 Rojszczak Award from Foundation for Polish Science

2013 Honorary Ambassador of Polish Congresses

2014 MP Power Award (<http://mppowerawards.com/edycja/show/2013>)

2015 Global Space Balloon Challenge - the best scientific experiment

2016 Global Space Balloon Challenge - the best scientific experiment

2017 The best Paper Award - 19th International Conference on Time Perception and Time Consciousness

2017 Young Researcher Award - ESLAB 51 Symposium, COSPAR & ILEWG

2017 One of the most influential Woman in Poland (Wysokie Obcasy)

2017 Golden Frombork Medal from Pultusk Academy of Humanities

Research Projects with International Collaboration:

2013-2015 „The neurobiological determinants of aggression in a novel animal model: lines of bank voles selected for predatory behavior”, SET, EU

2015-present Time Architecture, ACT, ESA, Netherlands

2015-present Photosynthetic Biomaterials for Space Applications, ACT, ESA, Netherlands

2015-present Optimization of scientific and educational outreach from analog simulations in preparation for future Moon and Mars exploration, ILEWG, ESA, Netherlands

2015-present Self-sustaining analog space habitats, VU Amsterdam, International Research Through Design Project SyMSE - Symbiotic Machines for Space Exploration, prof. R. N. Frese et al., Netherlands

“I hereby give consent for my personal data included in the job offer to be processed for the purposes of recruitment under the Data Protection Act 1997 (Dz. U. no. 133, item 883)”