



Institutul Național pentru Științe Biologice
Filiala Institutul de Cercetări Biologice
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National Institute for Biological Sciences
48 Republicii St.
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Curriculum Vitae

Mihai Miclăuș, PhD

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Education

Ph.D. in Plant Molecular Biology, Rutgers, the State University of New Jersey, U.S.A.

(2004-2011)

M.Sc. in Biodiversity and Management of Protected Areas, “Babeș-Bolyai” University, Cluj-Napoca, Romania (2003-2004)

B.Sc. in Biology and Chemistry (double major), “Babeș-Bolyai” University, Cluj-Napoca, Romania (1999-2003)

Work experience

Senior researcher at the National R&D Institute for Biological Sciences, Cluj-Napoca, Romania (2013 – present)

Postdoctoral Researcher at University of Bern, Switzerland (September 2014 – March 2015)

Senior researcher III at the National R&D Institute for Biological Sciences, Cluj-Napoca, Romania (2011-2013)

Ph.D. student at Rutgers University, New Jersey, U.S.A. (2004 – 2011)

Technician, Research assistant, at the National R&D Institute for Biological Sciences, Cluj-Napoca, Romania (2002-2004)

Research projects (as Principal Investigator)

2018 – 2020

Unlocking the full potential of 1,200 maize inbred lines for nowadays societal needs using state of the art molecular biology tools – funded by the Romanian National Authority for Scientific Research, CNDI-UEFISCDI, grant no. PN-III-P1-1.1-TE-2016-2629. € 100,000

2017 - 2018

Adding 250 inbred lines to the world map of maize breeding by unveiling their genetic structure – funded by the Romanian National Authority for Scientific Research, CNDI-UEFISCDI, grant no. PN-III-P2-2.1-PED-2016-0051, € 100,000



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2015 – 2017

Understanding the control of nuclear-gene-expression by the cytoplasmic genomes using maize cytolines – funded by the Romanian National Authority for Scientific Research, CNDI-UEFISCDI, project number PN-II-RU-TE-2014-4-1767-41/2015, € 124,000

2012 – 2016

Evaluating the existing genetic diversity among local maize inbred lines towards developing new hybrids, with superior qualities and increased productivity – funded by the Romanian National Authority for Scientific Research, CNDI-UEFISCDI, project number PN-II-PT-PCCA-2011-3.1-0511-103/2012, € 440,000

Relevant publications

(*corresponding author)

1. **Miclaus, M.***, Balacescu, O., Has, I., Balacescu, L., Has, V., Suteu, D., Neuenschwander, S., Keller, I., Bruggmann, R*. (2016) Maize cytolines unmask key nuclear genes that are under the control of retrograde signaling pathways in plants, *Genome Biology and Evolution* 8 (11) pp. evw245-15.
2. Xu, J-H., Wang, R., Li, X., **Miclăuș, M.**, Messing, J. (2016) Locus- and site-specific DNA methylation in 19 kDa zein genes in maize, *PLoS One* 11(1):e0146416
3. Șuteu, D., Bacila, I., Has, V., Has, I., **Miclăuș, M.*** (2013) Romanian maize (*Zea mays*) inbred lines as a source of genetic diversity in SE Europe, and their potential in future breeding efforts. *PLoS One* 8(12): e85501
4. **Miclăuș, M.**, Xu, J-H., Messing, J. (2011) Differential gene expression and epiregulation of alpha zein gene copies in maize haplotypes. *PLoS Genetics* 7(6): e1002131
5. **Miclăuș, M.**, Wu, Y., Xu, J-H., Dooner, H.K., Messing, J. (2011) The maize high-lysine mutant opaque7 is defective in an acyl-CoA synthetase-like protein. *Genetics* 189: 1271-1280
6. Calvino, M., **Miclăuș, M.**, Bruggmann, R., Mesing, J. (2009) Molecular markers for sweet sorghum based on microarray expression data. *Rice* 2 (2-3): 129-142

Oral presentations at international conferences (past 5 years)

Miclăuș, M. et al. (2019) *Uncovering the genetic structure of SE European maize through a GBS approach on 2,236 inbred lines*, XXIVth EUCARPIA Maize and Sorghum Conference, Freising, Germany.



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Miclăuș, M. et al. (2018) *Unlocking the full potential of 2,000 maize inbred lines for nowadays societal needs using state of the art molecular biology tools*, EUCARPIA International Congress on Oil and Protein Crops, Chișinău, **Rep. of Moldova**.

Miclăuș, M. et al., (2016) *Maize cytolines unmask key nuclear genes that are under the control of retrograde signaling pathways in plants*. 58th Maize Genetics Conference, Jacksonville, FL, **U.S.A.**

Miscellaneous

- Evaluator for the European Commission (Marie Skłodowska-Curie Actions, 2020)
- Member of the Board of Directors and legal representative of the Ad Astra Association: 2014-2016, 2018
- Outreach activities:
 - Invited speaker at (i) TEDxCERN@IFIN-HH (2018) and (ii) University of Bucharest – Science for everyone (2019)
- Blogger @mic-mic-anc.ro