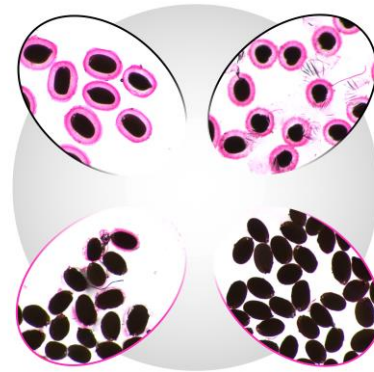


Plant Cell Wall Bioengineering Postdoctoral Researcher

To genetically tailor carbohydrate polymers that are essential for plant traits as well as our health, energy and materials needs, the Designer Glycans group led by Cătălin Voiniciuc (Associate Professor in Plant Synthetic Biology) uses state-of-the-art approaches in several plant and yeast species. By combining genetic engineering, carbohydrate biochemistry and microscopy, we are paving the way to predictably remodel the structure and function of plant cell walls. Demonstrated experience with genetic manipulation of model organisms (such as *Arabidopsis thaliana*, *Physcomitrium patens* and/or *Marchantia polymorpha*) or crops is a must for this position. Our international team is committed to increasing diversity in science and encourages all qualified applicants to apply as described below.

Requirements:

Applicants should have or be close to obtaining a PhD degree (biology, biochemistry, or biotechnology). The candidate should have strong English communication skills, take initiative in solving molecular puzzles and demonstrate scientific leadership skills. This two-year position has a flexible start date and is for the main campus of the University of Florida, in Gainesville.



How to Apply:

For full consideration, email a 1-page motivation letter and your CV to [cvoiniciuc \(at\) ufl.edu](mailto:cvoiniciuc@ufl.edu), using the subject line “**Plant Cell Wall Bioengineering Application**”. Be sure to specify how your prior experience and interests align with our laboratory’s missions: [Designer Glycans – Making and Breaking Cell Walls with Precision](#). Applications will be reviewed starting April 17, 2023.

Additional Benefits:

- Join a world-class agricultural institute that integrates basic sciences with plant breeding
- Outstanding core facilities for cytometry, mass spectrometry, light and electron microscopy
- Collaborative opportunities and training in automation through an in-house Biofoundry
- Great quality of life: year-round sunshine, a wealth of adventures and cultural activities

Selected Publications:

27. Voiniciuc C (2022) It’s Time to Go Glyco in Cell Wall Bioengineering. *Curr Opin Plant Biol*: [102313](#).
25. Yang B, Stamm G, Bürstenbinder K, Voiniciuc C (2022) Microtubule-associated IQD9 orchestrates cellulose patterning in seed mucilage. *New Phytol*: [nph.18188](#)
23. Voiniciuc C* (2022) Modern Mannan: A Hemicellulose’s Journey. *New Phytol* 234: [1175–1184](#)
22. Robert M, Waldhauer J, Stritt F, Yang B, Pauly M, Voiniciuc C (2021) Modular biosynthesis of plant hemicellulose and its impact on yeast cells *Biotechnol Biofuels* 14: [140](#)
20. Yang B, Hofmann F, Usadel B, Voiniciuc C (2020) Seed hemicelluloses tailor mucilage properties and salt tolerance. *New Phytol*: [nph.17056](#)
17. Voiniciuc C, Dama M, Gawenda N, Stritt F, Pauly M (2019) Mechanistic insights from plant heteromannan synthesis in yeast. *Proc Natl Acad Sci* 116: [522–527](#)

Google Scholar: https://scholar.google.de/citations?user=_PWfoX4AAAAJ