

“Research in Action” Podcast Instructor Guide

Use the following episode description, learning objectives, guiding questions and activity suggestions to more easily include “Research in Action” podcast episodes as a supplemental resource for your course.

Podcast and Episode Information

“Research in Action” is a weekly podcast about topics and issues related to research in higher education featuring experts across a range of disciplines.

On this episode of the podcast, the guest is Dr. Ludovico Cademartiri, who obtained a Laurea degree in Materials Science from the University of Parma in 2002 and a PhD in Chemistry from the University of Toronto in 2008 with Geoffrey A. Ozin. He was a NSERC Postdoctoral Fellow in the group of George M. Whitesides at Harvard University. His work spans materials chemistry, physical chemistry, molecular electronics, flame manipulation, plasma processing, polymers, and environments-by-design and has been recognized by national and international awards, most recently the Beckman Young Investigator Award, and the Plant Science Institute Faculty Fellow Award. He has been at Iowa State since 2012.

Segment One [00:00- 12:12] - In this segment, Ludovico describes his research on plants.

Segment Two [12:13-22:06] - In this segment, Ludovico shares about some of his research on plasmas.

Segment Three [22:07-34:17] - In this segment, Ludovico discusses the building blocks of his career.

Show notes and a transcript for this episode can be found at:

<http://ecampus.oregonstate.edu/research/podcast/e121/>

Learning Outcomes

By listening to this episode, students will be able to:

- Discuss examples of some broader impacts from plant research
- Describe plasma as it relates to plants
- Explain examples of practical and scientific applications of creating more solid structures out of plasma removal

Guiding Questions for Listening

- What are some examples of the broader impacts of plant research?
- According to Dr. Cademartiri, what makes Legos an ideal building block to create habitats for living organisms?
- How does Dr. Cademartiri define plasma as it relates to plants?
- What does Dr. Cademartiri explain are some of the practical and scientific applications of removing plasma for more solid structures?
- What are some of the ways in which plasma can be generated?
- What does Dr. Cademartiri explain are some of the advantages to using simple tools as opposed to complicated pieces of equipment for his work with plasma?
- What does Dr. Cademartiri share became a valuable experience in working with an advisor during his education?

Possible Activities

- Ask students to visit the show notes for this episode (<http://ecampus.oregonstate.edu/research/podcast/e121/>) and look at an additional resource that is linked in connection with this episode. Students can write a short review of that resource to share with their peers.
- Ask students to visit the show notes for this episode (<http://ecampus.oregonstate.edu/research/podcast/e121/>) and post an additional resource connected to the content of the episode in the comments section.
- Have students share questions that are raised for them based on the content of this episode. What would they ask Dr. Ludovico Cademartiri if they could?

Suggested Citation (APA, 6th edition)

Linder, K. (Producer/host). (2018, July 23). *Dr. Ludovico Cademartiri on Researching Plants*. [Audio podcast]. Retrieved from <http://ecampus.oregonstate.edu/research/podcast/e121/>

Notes

About the Research in Action Podcast

“Research in Action” (RIA) is a podcast about topics and issues related to research in higher education featuring experts across a range of disciplines. Episodes are posted weekly and include guest interviews and occasional solo episodes. Guests are from a range of higher education institutions and share their expertise on qualitative, quantitative and mixed methods as well as their personal experiences as researchers, research and writing practices, organizational and productivity strategies, and much more. Some weeks, bonus content will also be posted.

“Research in Action” is hosted by [Dr. Katie Linder](#), research director for Oregon State University Ecampus.

Visit the podcast website to view [show notes and transcripts for each episode](#), explore our [episode guide](#), learn more about how to [contact us](#), or [suggest a future guest or topic](#).

You may subscribe to the [“Research in Action” RSS feed](#) or access the podcast via [iTunes](#), [Soundcloud](#) or [Stitcher](#).

“Research in Action” is also listed on [MERLOT](#).

The “Research in Action” podcast is a resource funded by Oregon State University Ecampus – ranked top ten in the nation for online education two years running by U.S. News & World Report. OSU Ecampus has more than 45 degree programs and more than 1,000 classes online.

Contact

Katie Linder, Ph.D.
Director of Research
Oregon State Ecampus
541-737-4629
kathryn.linder@oregonstate.edu

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