

Mathematisch-Naturwissenschaftliche Fakultät
der Universität zu Köln
- Der Dekan -



Einladung

zu dem am Donnerstag, dem 16. Mai 2024, ab 14 Uhr
im Kurt-Alder-Hörsaal,
Greinstraße 4-6, 50939 Köln

stattfindenden öffentlichen

wissenschaftlichen Habilitationsvortrag
Institut für Pflanzenwissenschaften
(Fach: Botanik)
von

Dr. rer. nat. Johana C. Stadtel

über das Thema

Meat lovers: How plants evolved into carnivores?

Carnivorous plants use animals as a source of nutrition and are found in various lineages of flowering plants. Carnivory has evolved independently in plants, making it a prime example of convergent evolution. Species from different regions of the world have developed the ability to absorb nutrients, such as nitrogen and phosphorus, from their prey as an adaptation mechanism to their environment. What does a plant need to be carnivorous? What are the molecular basis of carnivory in plants? This lecture will explore the different traits that allow these plants to adapt to harsh conditions, and the costs and benefits of being carnivorous. Finally, we will look at the digestive cocktail commonly used by carnivorous plants to digest their prey, and how stress-responsive proteins, already present in non-carnivorous plant species, may have been co-opted for digestive functions.

G. Bareth
Dekan