

## Plant Anatomy

A course for researchers, teachers and technicians combining theory, practical and basic techniques for the observation of plant structure

Plant anatomy is the study of the internal structure of plants. It plays a key role in understanding how plants function and is an essential component of much research.

The Plant Anatomy course will combine theory and practical so that participants can develop a sound understanding of the structure and function of plants. The information presented will be more advanced than that usually offered in most undergraduate degrees. Material will be presented in short modules comprising a lecture using notes and PowerPoint slides followed by a practical for observing specimens and slides.

The target audience for this course includes researchers (honours, postgraduates, postdoctorates, technicians) whose projects involve some aspect of understanding and investigating plant structure. This course is also suggested for anyone teaching plant biology at school or university and those who wish to acquire or strengthen practical and theoretical knowledge of plant structure.

**Date:** 3 - 5 June 2014 (3 days)

**Cost:** \$400 (discounts available for QUT staff, students and alumni)

**Cost inclusions:** Training and course materials

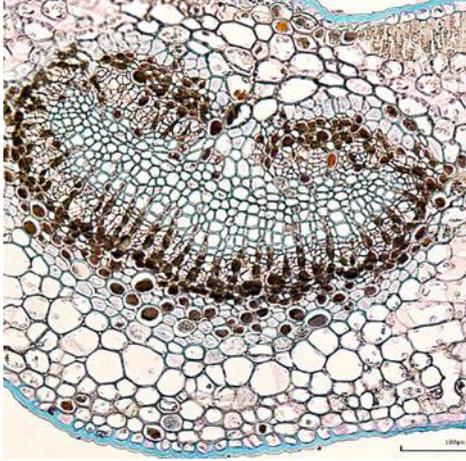
**Location:** QUT Gardens Point Campus, 2 George St, Brisbane

**Course requirements:** Lab coat, covered shoes, lunch and snacks (also available for purchase on campus). If you have access to a dissection kit and/or hand lens, please bring them with you

**Course enquiries:** For further information about course content, contact Dr Tanya Scharaschkin [t.scharaschkin@qut.edu.au](mailto:t.scharaschkin@qut.edu.au)

For all registration or payment queries, contact [cpe@qut.edu.au](mailto:cpe@qut.edu.au)

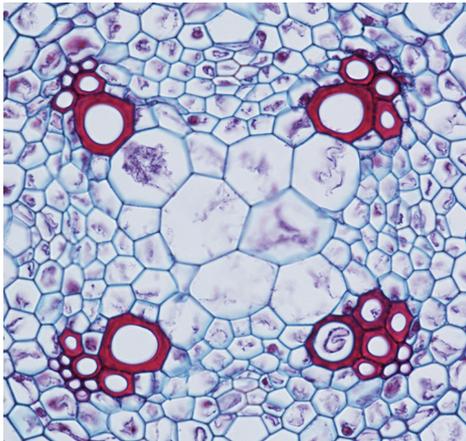
**Register online:** [www.qut.edu.au/study/short-courses-and-professional-development/short-courses/plant-anatomy](http://www.qut.edu.au/study/short-courses-and-professional-development/short-courses/plant-anatomy)



## Course Overview

This course aims to provide participants with practical skills and theoretical knowledge required for understanding scientific literature and conducting research. Participants will acquire skills transferrable to most plant systems and will be exposed to range of methods and techniques that can be used in different teaching and research projects.

An extensive collection of high quality prepared slides will be available to participants during the course. Specimens relevant to understanding the structure of Australian plants and of relevance to Australian ecosystems and agriculture will be utilised wherever possible. Details and depth of coverage will be at a postgraduate level.



## Participants

This course will benefit those who wish to acquire or strengthen practical and theoretical skills in plant structure. It is also relevant to people wanting to teach plant anatomy in schools.

Prior knowledge of plant anatomy is not required, as we will start with basics and rapidly advance to a higher level of detail.

At the end of the course, participants will receive:

- A certificate of attendance
- Extensive notes and laboratory protocols on plant anatomy
- Skills relevant to undertaking research involving plants
- Laboratory skills in plant histology and microscopy



## Instructor

Dr Tanya Scharaschkin is a lecturer in the School of Earth, Environmental and Biological Sciences. Tanya provides hands-on training in plant biology to research students, assists with projects across different discipline areas and provides advice on how best to examine plant structure. She is actively leading the establishment of laboratory techniques related to investigating plant structure (anatomy and morphology) at QUT.

Tanya's research activities include the use of different histological techniques, such as paraffin and resin embedding, microtomy and freehand sectioning, light microscopy, scanning electron microscopy, chromosome squash and staining.