



THE UNIVERSITY
of EDINBURGH

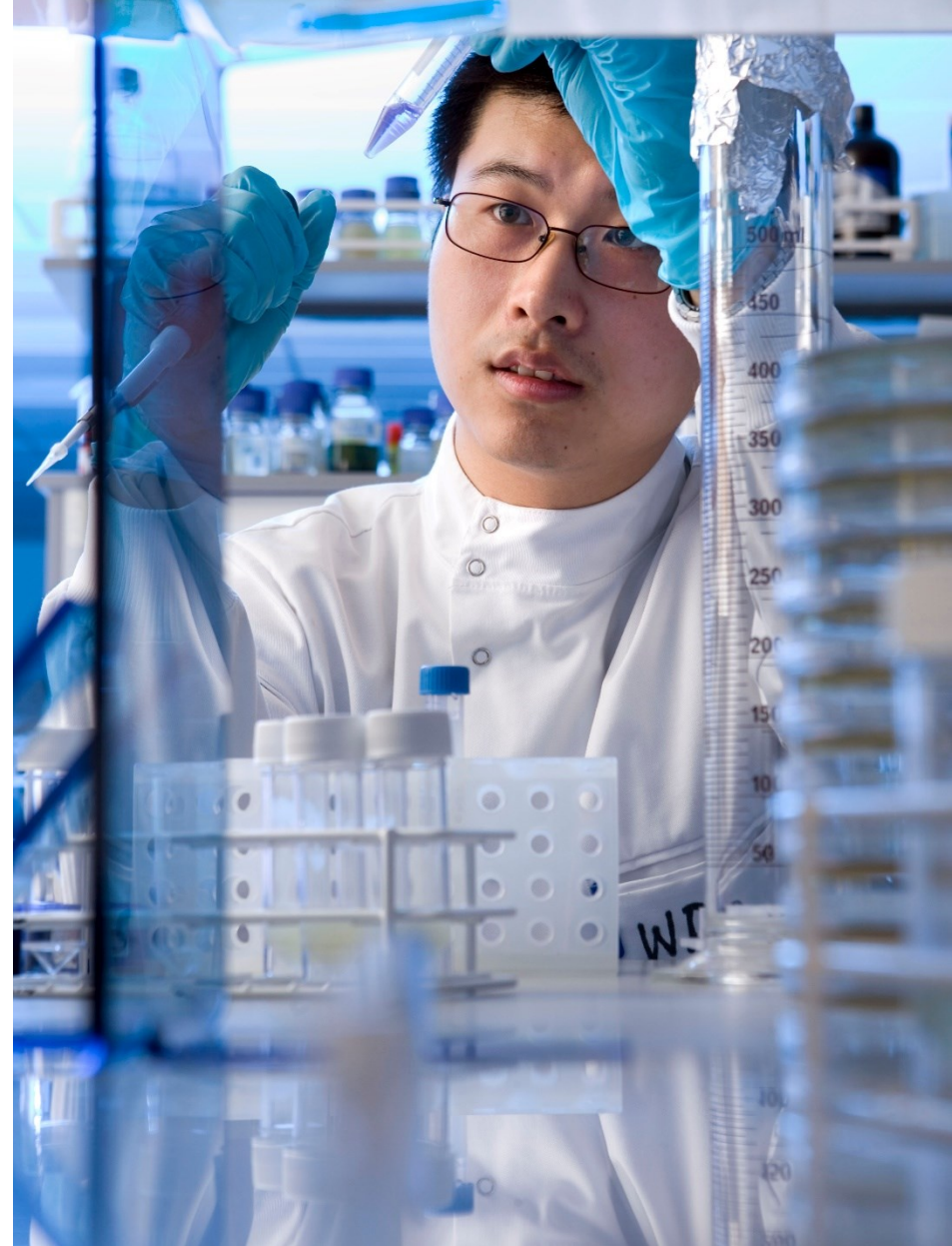
Masters programmes at the School of Biological Sciences

Dr Jacob Moorad, Associate Director of Teaching | May 2024

EDINBURGH
extraordinary futures await

What we'll cover

- Biological Sciences at Edinburgh;
 - The School
 - Our research
- Masters programme structure
 - Teaching semesters
 - Project semester
- Our teaching and learning methods
- Studying with us



QS World University Rankings

- Biological Sciences (2024)



21st



5th



1st



The School of Biological Sciences

- Most teaching takes place at King's Buildings
- Big research focus, ~150 groups in the school all doing research in many Biological areas
- ~1200 students on
 - 12 BSc programmes
 - 13 MSc programmes
 - PhD programmes



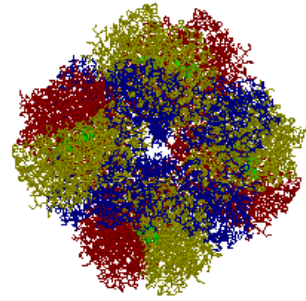
Our Research



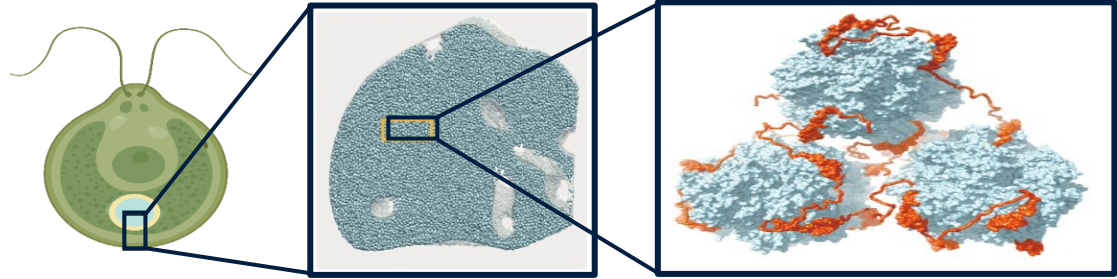
Dr Alistair McCormick



Dr Nicky Atkinson



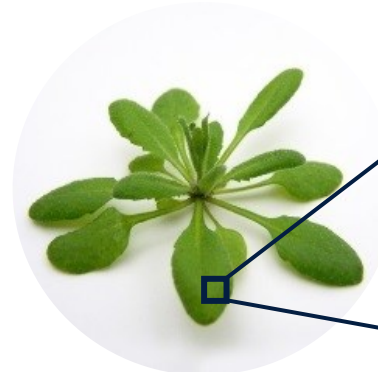
Rubisco



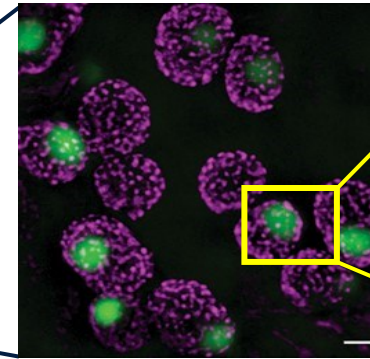
Chlamydomonas reinhardtii

Pyrenoid filled with Rubisco

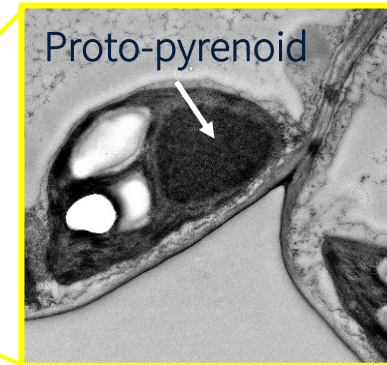
Rubisco stuck together with linkers



Arabidopsis thaliana
(model plant)



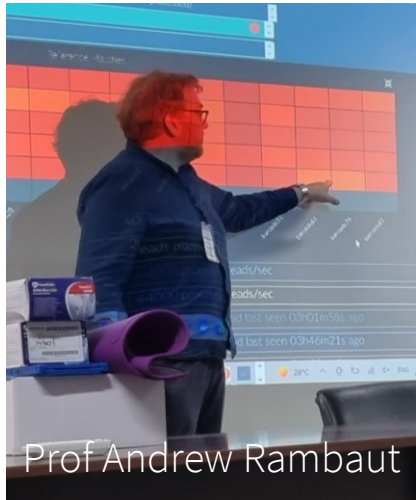
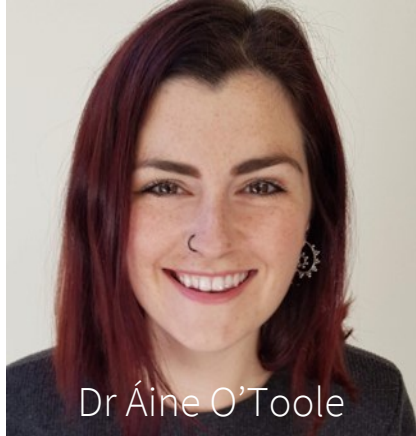
Chloroplasts in leaves with proto-pyrenoids (green)



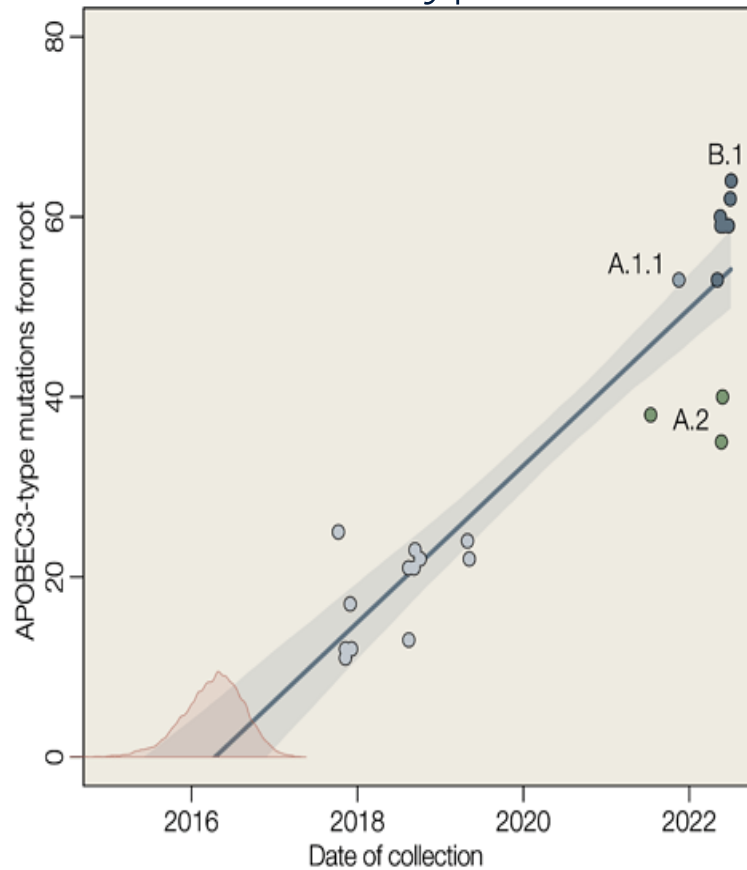
EM image of chloroplast with proto-pyrenoid



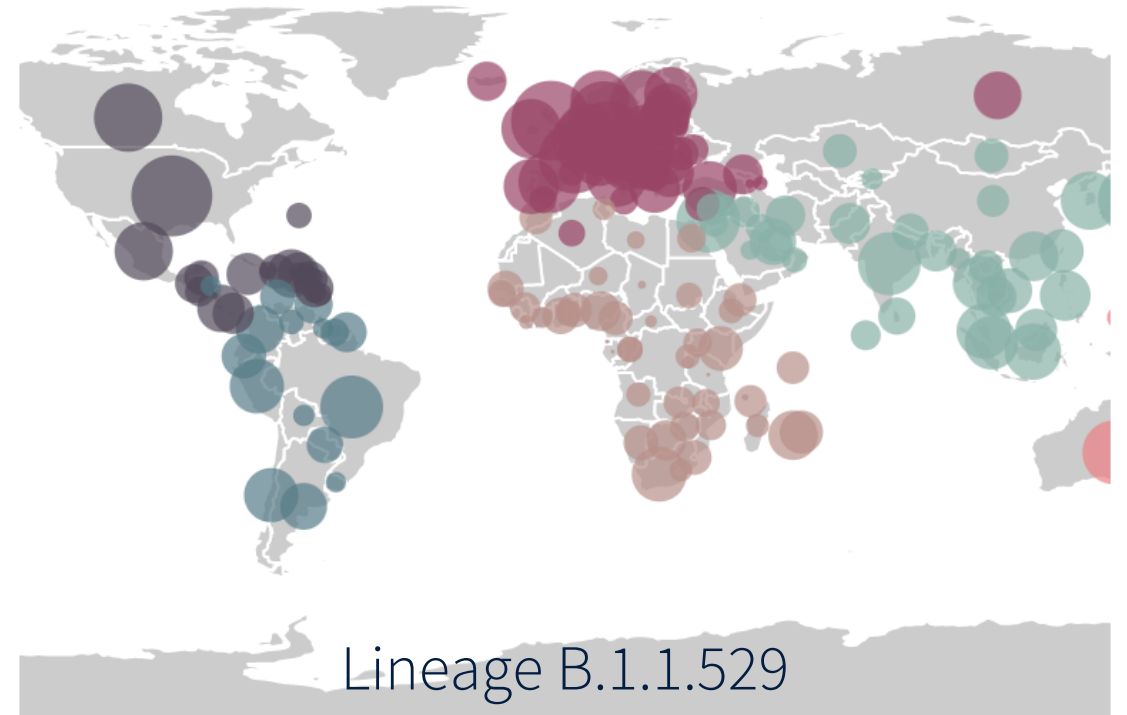
Our Research



Monkeypox



<https://cov-lineages.org/index.html>



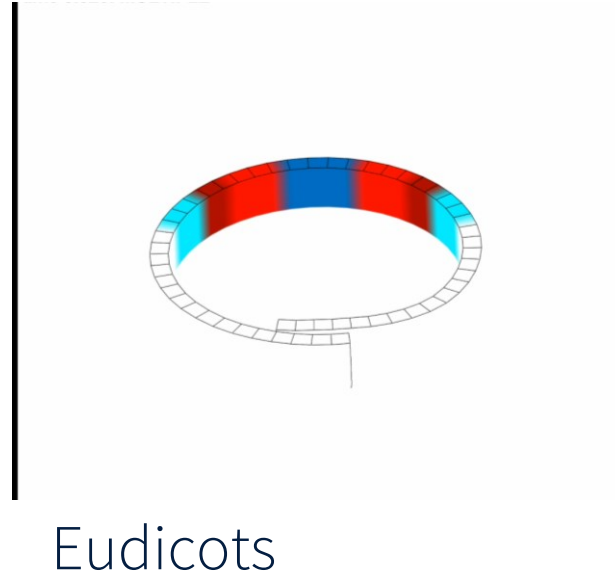
THE UNIVERSITY
of EDINBURGH

EDINBURGH
extraordinary futures await

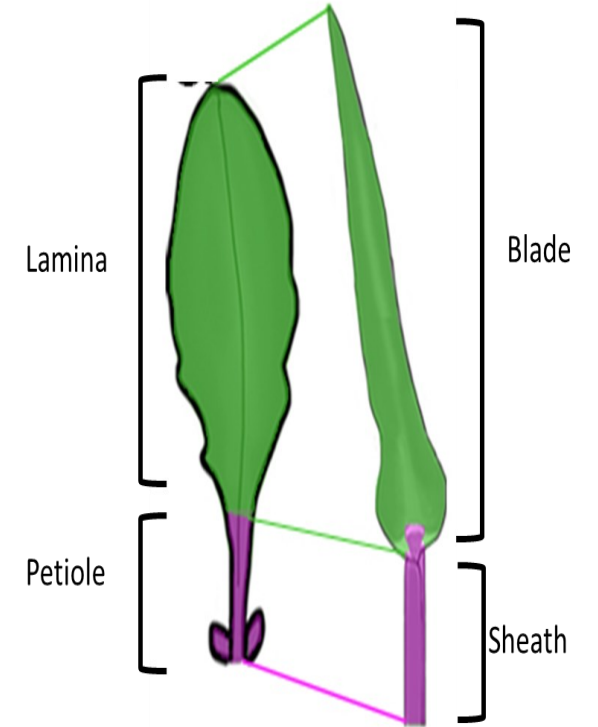
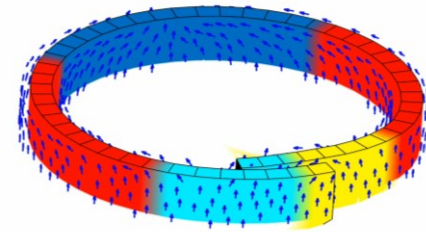
Our Research



Dr Annis Richardson



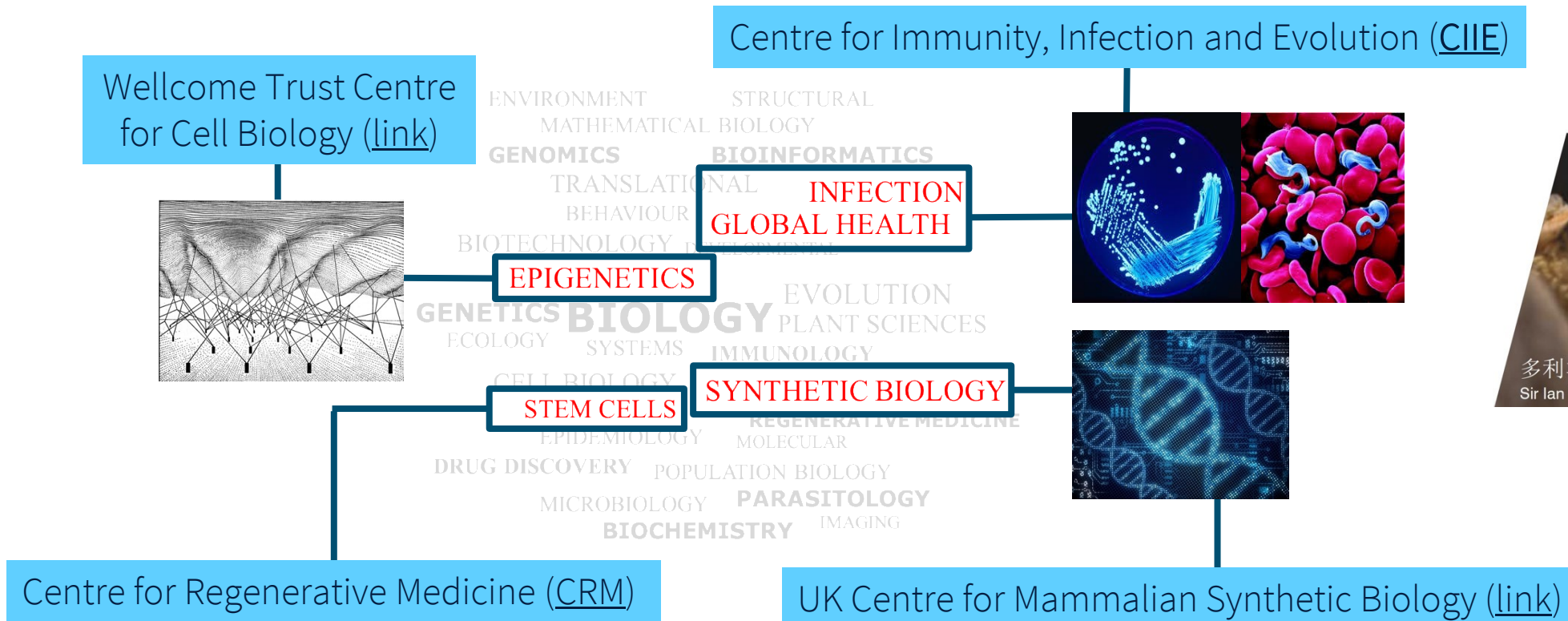
Monocots



THE UNIVERSITY
of EDINBURGH

EDINBURGH
extraordinary futures await

World-class Centres of Excellence



In the [lab](#)



Masters Programmes



THE UNIVERSITY
of EDINBURGH

EDINBURGH
extraordinary futures await

Postgraduate options – one year masters

- Biochemistry
- Biodiversity and Taxonomy of Plants
- Bioinformatics
- Biotechnology
- Data Science for Biology
- Drug Discovery and Translational Biology
- Ecology, Evolution and Biodiversity
- Quantitative Genetics Suite:
 - Quantitative Genetics and Genome Analysis
 - Animal Breeding and Genetics
 - Evolutionary Genetics
 - Human Complex Trait Genetics
- Synthetic Biology and Biotechnology
- Systems and Synthetic Biology



Each programme

- 2 semesters of teaching
 - Different “must” courses for each programme
 - Some credits available for elective choices which allows you to flavour your own programme to your own interests
- 1 semester of research project
 - A chance to apply your learning from the first 2 semesters to a project
 - Working with one of our research groups or in industry



Lectures



Practical classes



Field work and Field courses



To learn in different environments



THE UNIVERSITY
of EDINBURGH

EDINBURGH
extraordinary futures await

Assessments

In course:

- online quizzes
- laboratory reports
- mini projects
- data analysis
- programming
- essay writing
- tutorial presentations
- poster making

Examinations:

- multiple choice questions
- short answer questions
- problem solving questions
- essay writing
- scientific paper analysis



Research project



To foster curious and independent learners



THE UNIVERSITY
of EDINBURGH

EDINBURGH
extraordinary futures await

Studying with us



THE UNIVERSITY
of EDINBURGH

EDINBURGH
extraordinary futures await

Postgraduate Bursaries

- Competitive application to a full-fee bursary
- You must have an offer of study for one of our masters programmes
- You must not already have a masters or PhD degree



Typical Academic Year

Arrival

Weekend before Welcome Week

Welcome Week

Early/mid September

Semester 1

Mid September – early December

Revision

December

Exams

Mid / late December

Semester 2

Mid January – early April

Revision

April

Exams

May



Student Support

- Student Adviser
- Biology Teaching Organisation
- University Services: Counselling, Disability and Learning Support Service, Advice Place
- Careers Service – including 2 years post graduation
- Academic Staff



Graduation



THE UNIVERSITY
of EDINBURGH

EDINBURGH
extraordinary futures await



THE UNIVERSITY
of EDINBURGH



Tilo Kunath | April 2024

bto.recruitment@ed.ac.uk

EDINBURGH
extraordinary futures await