

BL4270 Plant environment Interactions

(BL4270 online module handbook version 18)

Credits: 15

Semester: 2

Module Organiser

Prof John Jones

jj33@st-andrews.ac.uk

Pre-requisite Modules:

Permission of Biology

Honours Adviser required

Anti-requisite Modules:

Post-requisite Modules:

Additional Module

Information:

[Please check MMS regularly for additional module information](#)

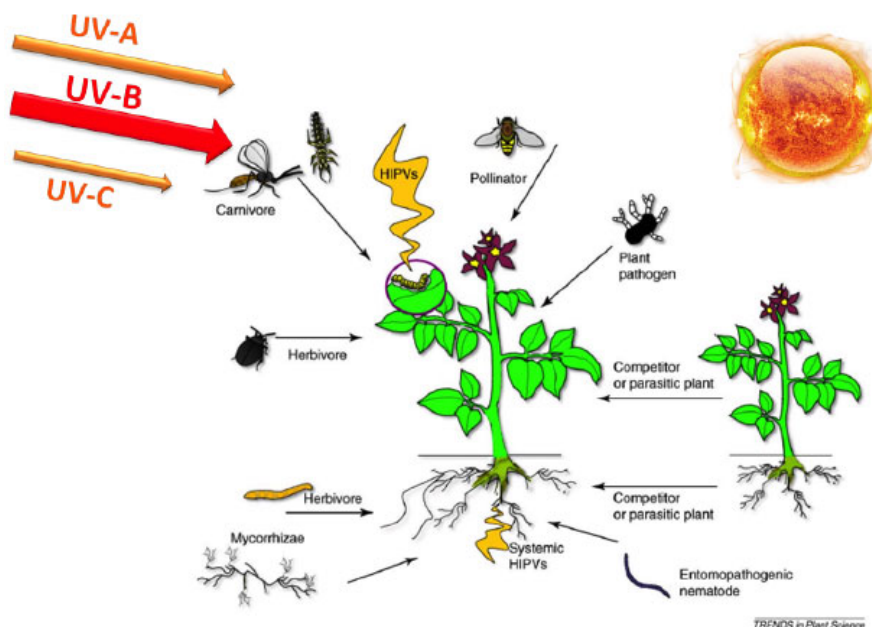


image: The evolutionary context for herbivore-induced plant volatiles: beyond the cry for help? , Trends in Plant Science, 15: 167-175.

This module will provide an analysis of the ways in which plants interact with their physical, chemical and biological environments. This is a wide-ranging course which will bring together current knowledge of the physiological and molecular responses of plants within the wider context of how whole organisms and communities respond to the environment. Topics include: parasitism, plant pathogens and diseases, symbioses, plant stress responses, and human influences such as pollution, bioremediation and genetic modification.

[BL4270View content for BL4270 \(2023/4\) in the Module Management System \(MMS\)](#)

[View the current Biology Online Module Catalogue for BL4270](#)

[BL4270View BL4270 \(2023/4\) in the University of St Andrews Module Catalogue](#)

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BL4270: Timetable

Legend (not all modules have every event type):

| | | | | |
|---------|----------|----------|-----------|-------|
| lecture | tutorial | workshop | practical | other |
|---------|----------|----------|-----------|-------|

Semester 2: Week 1

| DATE & TIME | VENUE | STAFF | EVENT |
|--|-------------------------------------|--------------------------------------|---|
| Friday 19-01-2024 14:00 to 16:00 | St Mary's College Lecture Room 3 | Prof John Jones - | Lecture L1: Module Overview <small>2023-4_BL4270_L1</small> |

Semester 2: Week 2

| DATE & TIME | VENUE | STAFF | EVENT |
|--|---------------------------------|--------------------------------------|--|
| Friday 26-01-2024 14:00 to 16:00 | Bute Building Lecture Room A | Prof John Jones - | Lecture L2: Special essay topic <small>2023-4_BL4270_L2</small> The plant immune system |

Semester 2: Week 3

| DATE & TIME | VENUE | STAFF | EVENT |
|--|---------------------------------|--|--|
| Friday 02-02-2024 14:00 to 16:00 | Bute Building Lecture Room A | Prof John Jones ProfJohnRaven | Lecture L3: Special essay topic <small>2023-4_BL4270_L3</small> Phosphorous |

Semester 2: Week 4

| DATE & TIME | VENUE | STAFF | EVENT |
|--|---------------------------------|--|---|
| Friday 09-02-2024 14:00 to 16:30 | Bute Building Lecture Room A | Prof John Jones mg358 | Workshop W1: Class literature topic 1 <small>2023-4_BL4270_W1</small> |

Semester 2: Week 5

| DATE & TIME | VENUE | STAFF | EVENT |
|--|---------------------------------|--|---|
| Friday 16-02-2024 14:00 to 16:30 | Bute Building Lecture Room A | Prof John Jones Dr Jane Wishart | Workshop W2: Class literature topic 2 <small>2023-4_BL4270_W2</small> |

Semester 2: Week 6

| DATE & TIME | VENUE | STAFF | EVENT |
|--|---------------------------------|--|---|
| Friday 23-02-2024 14:00 to 16:30 | Bute Building Lecture Room A | Prof John Jones mg358 | Workshop W3: Class literature topic 3 <small>2023-4_BL4270_W3</small> |

Spring Break: 26-Feb-2024 to 01-Mar-2024

Semester 2: Week 7

| DATE & TIME | VENUE | STAFF | EVENT |
|--|---------------------------------|--|---|
| Friday 08-03-2024 14:00 to 16:30 | Bute Building Lecture Room A | Prof John Jones mg358 | Workshop W4: Class literature topic 4 <small>2023-4_BL4270_W4</small> |

Semester 2: Week 8

| DATE & TIME | VENUE | STAFF | EVENT |
|--|-------|---|--|
| Friday 15-03-2024 14:00 to 16:00 | Other | Prof John Jones Dr-G_Kenicer | Other O1: Tour of Botanic Garden and introduction to grant proposal task <small>2023-4_BL4270_O1</small> |

Semester 2: Week 9

| DATE & TIME | VENUE | STAFF | EVENT |
|--|---------------------------------|--|--|
| Friday 22-03-2024 14:00 to 16:30 | Bute Building Lecture Room A | Prof John Jones mg358 | Other O2: Student assessed presentations <small>2023-4_BL4270_O2</small> |

Semester 2: Week 10

| DATE & TIME | VENUE | STAFF | EVENT |
|--|---------------------------------|--|--|
| Monday 25-03-2024 14:00 to 16:30 | Bute Building Lecture Room A | Prof John Jones mg358 | Other O3: Student assessed presentations <small>2023-4_BL4270_O3</small> |

Semester 2: Week 11

| DATE & TIME | VENUE | STAFF | EVENT |
|--|---------------------------------|--|--|
| Friday 05-04-2024 14:00 to 16:30 | Bute Building Lecture Room A | Prof John Jones mg358 | Other O4: Student assessed presentations <small>2023-4_BL4270_O4</small> |

BL4270: Reading List

[BL4270Click for BL4270 reading list](#)

BL4270: Assessment

Coursework = 100%

[BL4270View coursework assessment details for BL4270 \(2023/4\) in MMS](#)

The following related information applies to all Biology modules:

| | |
|---|--|
| School of Biology Marking Criteria: | See JH booklet info (st-andrews.ac.uk) |
| Late submission of continuous assessment work: | All late submissions of coursework that do not require electronic submission should be made via the Biology Teaching Office, Level 2, BMS Building, North Haugh. |
| Exam details: | See School of Biology UG Handbook JH booklet info (st-andrews.ac.uk) : All Biology exams will be conducted online for 2022-23. |
| Exam timetable: | See Timetables - Exams - University of St Andrews (st-andrews.ac.uk) |
| Expected attendance: | See JH booklet info (st-andrews.ac.uk) for detailed attendance requirements. |
| Good Academic Practice & Avoiding Academic Misconduct: | See JH booklet info (st-andrews.ac.uk) |
| University Student Handbook: | University Student Handbook |
| School and University regulations in the School and University Undergraduate Handbook relating to absence reporting, penalties and rules for late submission of work, extensions for coursework, return of coursework, S-coding, good academic practice and Academic Alerts.: | JH booklet info (st-andrews.ac.uk) University Student Handbook |

Who to ask

(Information in this section applies to all Biology Modules)

Before contacting staff, students should check the content of the Biology Undergraduate Handbook, the module handbook and specific task instructions.

Questions about

General teaching matters
Rescheduled or cancelled events
Lecture or practical content
Completing assessed practical assignments
Completing assessments
Marking on continuous assessment
Marking on exams
Rearranging practical days
Absence and/or extensions
Difficulties with academic progress which impact more than one module:
Overall performance, progress or future directions:
Disability:
For advice and support on any issue e.g. academic, financial, international, personal or health matters, or if you are unsure of who to go to for help:

University assistance with urgent matters out of office hours:

Contact

Biology Teaching Office (bioteach@st-andrews.ac.uk)
Check your University email
The lecturer who presented the material
The lecturer who set the assignment
Module Organiser (Prof John Jones jj33@st-andrews.ac.uk)
The Demonstrator or Module Organiser (Prof John Jones jj33@st-andrews.ac.uk)
Module Organiser (Prof John Jones jj33@st-andrews.ac.uk)
Module Organiser (Prof John Jones jj33@st-andrews.ac.uk)
Module Organiser (Prof John Jones jj33@st-andrews.ac.uk)
and the Biology Teaching Office (bioteach@st-andrews.ac.uk)
Year Coordinator
See School of Biology UG Handbook for list:
[JH booklet info \(st-andrews.ac.uk\)](http://www.st-andrews.ac.uk/jh-booklet-info)
Advisor of Studies
Disability Coordinator (biodisabilities@st-andrews.ac.uk)
Advice & Support Centre
Address: 79 North Street, St Andrews
Email: theasc@st-andrews.ac.uk
Web: <https://www.standrews.ac.uk/ask-a-question/>
Tel: 01334 462020
Tel: 01334 476161
Web:
<https://www.st-andrews.ac.uk/students/advice/counselling/incrisis/>

Biology Teaching Office:

We are happy to hear from you about teaching matters. The School of Biology Teaching Office is open Monday to Friday 09.00 - 13.00 and 14.00 - 17.00. School of Biology staff will respond to your emails during these hours. Our team will provide a response to you within three working days.

Biology Teaching Office (Level 2), University of St Andrews, Biomolecular Sciences Building, North Haugh, St Andrews, Fife KY16 9ST

Email: bioteach@st-andrews.ac.uk

Tel: 01334 46 3602 or 3566

BL4270: Contributing Staff

[Prof John Jones](#)
(Module Organiser)

Professor

jj33@st-andrews.ac.uk

[Prof John Jones](#)
(Module Organiser)

Professor

jj33@st-andrews.ac.uk

[Dr Jane Wishart](#)

Honorary

jw211@st-andrews.ac.uk

BL4270: Learning Outcomes

Students completing module BL4270 successfully should be able to:

- identify several examples of the way plants respond to their biotic and abiotic environment
- search for scientific literature and understand the measures of quality used to assess the value of individual scientific research articles.
- present succinct accounts of scientific literature in both oral and written format.
- appraise critically research papers, in particular experimental design aspects.
- formulate a testable hypothesis on a selected area of research.
- follow the development of a scientific topic over time within the discipline of plant environment interactions.
- plan and prepare a grant proposal

BL4270: Acquired Skills

Practical Skills

Transferable Skills

- Long individual presentation on given topic (>15 min)
- Short individual presentation on given topic (up to 15 min)
- Handout (for presentation or poster)
- Long essay (>2000 words)
- Research proposal

Policies

(Information in this section applies to all Biology Modules)

- The procedures and regulations followed by the School of Biology are outlined in the [University Handbook](#) and in the School of Biology UG handbook [JH booklet info \(st-andrews.ac.uk\)](#)
- All coursework associated with the module must be completed and submitted by its due date.
- Specific School regulations relating to absence reporting, penalties and rules for late submission of work, extensions for coursework, return of coursework, S-coding, Good Academic Practice and Academic Alert are stated in the School of Biology UG handbook [JH booklet info \(st-andrews.ac.uk\)](#) and students are required to carefully read these regulations.
- Students are also referred to the University Handbook, available at: <http://www.st-andrews.ac.uk/studenthandbook/>