

BL4223 Molecular and cell biology of eukaryotic DNA replication

(BL4223 online module handbook version 39)

Credits: 15

Semester: 1

Module Organiser

Dr Stuart MacNeill

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Pre-requisite Modules:

Before taking this module you must pass BL3301 and pass BL3302

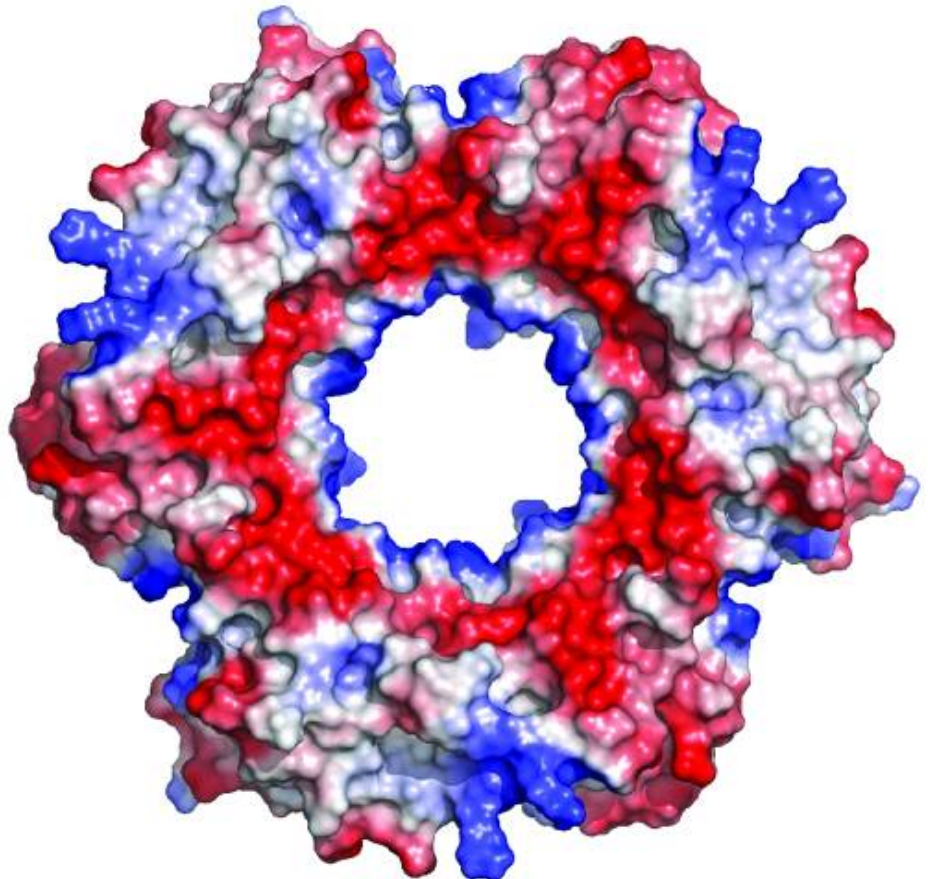
Anti-requisite Modules:

Post-requisite Modules:

Additional Module

Information:

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



Highly-efficiently chromosomal DNA replication is essential for all forms of cellular life on Earth and requires the complex interplay of a large range of protein factors in a temporally- and spatially-coordinated manner. In humans, defects in the replication process may lead to genetic disease or cancer. This module will summarise current knowledge of the enzymes and mechanisms of chromosomal DNA replication in bacterial, archaeal and eukaryotic cells with particular emphasis on exploring the diverse range of experimental systems and techniques used in the laboratory to probe the structure, function and regulation of the replication apparatus. Similarities and differences between cellular and viral DNA replication strategies will be explored and diverse aspects of the evolution of the replication machinery highlighted.

[View the current Biology Online Module Catalogue for BL4223](#)

[BL4223View BL4223 \(2023/4\) in the University of St Andrews Module Catalogue](#)

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BL4223: Timetable

Legend (not all modules have every event type):

lecture	tutorial	workshop	practical	other
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Semester 1: Week 1

DATE & TIME	VENUE	STAFF	EVENT
Wednesday 13-09-2023 14:15 to 16:00	Purdie Building 222	Dr Stuart MacNeill -	Workshop W1: Session 1 (introduction) <small>2023-4_BL4223_W1</small> Session will not be recorded

Semester 1: Week 2

DATE & TIME	VENUE	STAFF	EVENT
Wednesday 20-09-2023 14:15 to 16:00	Purdie Building 222	Dr Stuart MacNeill -	Workshop W2: Session 2 <small>2023-4_BL4223_W2</small> Session will not be recorded

Semester 1: Week 3

DATE & TIME	VENUE	STAFF	EVENT
Wednesday 27-09-2023 14:15 to 16:00	Medical and Biological Sciences Building Tutorial Room 5	Dr Stuart MacNeill -	Workshop W3: Session 3 <small>2023-4_BL4223_W3</small> Session will not be recorded

Semester 1: Week 4

DATE & TIME	VENUE	STAFF	EVENT
Wednesday 04-10-2023 14:15 to 16:00	Purdie Building 222	Dr Stuart MacNeill -	Workshop W4: Session 4 <small>2023-4_BL4223_W4</small> Session will not be recorded

Semester 1: Week 5

DATE & TIME	VENUE	STAFF	EVENT
Monday 09-10-2023 14:15 to 16:00	Purdie Building 222	Dr Stuart MacNeill -	Workshop W5: Session 5 <small>2023-4_BL4223_W5</small> Session will not be recorded

Semester 1: Week 7

DATE & TIME	VENUE	STAFF	EVENT
Wednesday 25-10-2023 14:15 to 16:00	Purdie Building 222	Dr Stuart MacNeill -	Workshop W6: Session 6 <small>2023-4_BL4223_W6</small> Session will not be recorded

Semester 1: Week 8

DATE & TIME	VENUE	STAFF	EVENT
Wednesday 01-11-2023 14:15 to 16:00	Purdie Building 222	Dr Stuart MacNeill -	Workshop W7: Session 7 <small>2023-4_BL4223_W7</small> Session will not be recorded

Semester 1: Week 9

DATE & TIME	VENUE	STAFF	EVENT
Wednesday 08-11-2023 14:15 to 16:00	Purdie Building 222	Dr Stuart MacNeill -	Workshop W8: Session 8 <small>2023-4_BL4223_W8</small> Session will not be recorded

Semester 1: Week 10

DATE & TIME	VENUE	STAFF	EVENT
Wednesday 15-11-2023 14:15 to 16:00	Purdie Building 222	Dr Stuart MacNeill -	Workshop W9: Session 9 <small>2023-4_BL4223_W9</small> Session will not be recorded

Semester 1: Week 11

DATE & TIME	VENUE	STAFF	EVENT
Wednesday 22-11-2023 14:15 to 16:00	Purdie Building 222	Dr Stuart MacNeill Dr Helder Ferreira	Other O1: Assessed student presentations <small>2023-4 BL4223 O1</small> Session will not be recorded

BL4223: Reading List

[BL4223Click for BL4223 reading list](#)

BL4223: Assessment

1.5-hour Written Examination = 40%, Coursework = 60%

[BL4223View coursework assessment details for BL4223 \(2023/4\) 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 ([Dr Stuart MacNeill sam31@st-andrews.ac.uk](mailto:DrStuartMacNeill.sam31@st-andrews.ac.uk))
The Demonstrator or Module Organiser ([Dr Stuart MacNeill sam31@st-andrews.ac.uk](mailto:DrStuartMacNeill.sam31@st-andrews.ac.uk))
Module Organiser ([Dr Stuart MacNeill sam31@st-andrews.ac.uk](mailto:DrStuartMacNeill.sam31@st-andrews.ac.uk))
Module Organiser ([Dr Stuart MacNeill sam31@st-andrews.ac.uk](mailto:DrStuartMacNeill.sam31@st-andrews.ac.uk))
Module Organiser ([Dr Stuart MacNeill sam31@st-andrews.ac.uk](mailto:DrStuartMacNeill.sam31@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

BL4223: Contributing Staff

Dr Stuart MacNeill
(Module Organiser)

Dr Helder Ferreira

Dr Stuart MacNeill
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BL4223: Learning Outcomes

No details are currently available for Learning Outcomes

BL4223: Acquired Skills

Practical Skills

Transferable Skills

- Group discussion - participating
- Long individual presentation on given topic (>15 min)
- Short individual presentation on given topic (up to 15 min)
- Summary
- Critically evaluating sources/information

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/>