

# RMU Master Module

## DNA Repair & Genome Stability

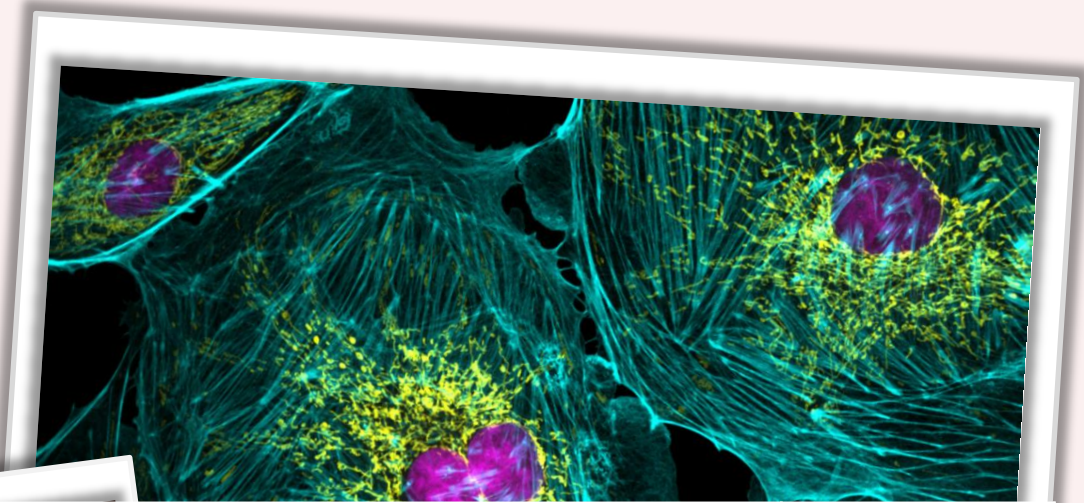
**Summer Semester 2024**

**Lecture series**

**(2 weeks, 10:00 – 11:30 & 12:30 – 14:00)**

**Lab practical**

**(4-6 weeks)**



Brian Luke	Introduction briefing	<b>11 April</b> online
Cristina Cardoso		
Helle Ulrich	DNA repair and genome maintenance – an overview / Genome maintenance during DNA replication	<b>15 April</b> JGU Mainz (1)
Thomas Hofmann	DNA damage signaling	
Markus Christmann	DNA damage by genotoxic and carcinogenic substances	<b>16 April</b>
Petra Beli	Regulation of DNA damage response by posttranslational modifications	<b>IMB Mainz (2)</b>
Oliver Krämer	Desired actions and side effects of chemotherapy	<b>17 April</b>
Katja Luck	Protein modularity & its implications in molecular biology research	<b>IMB Mainz (2)</b>
Sandra Schick	Genome regulation by ATP-dependent chromatin remodelers	
Markus Löbrich	DNA double strand repair pathways	<b>18 April</b>
Patrick Heun	Establishment and maintenance of the epigenetic identity of centromeres	<b>TU Darmstadt (3)</b>
Brian Luke	RNA-DNA hybrids	
Daniela Kramer	Crosstalk of inflammation, epigenetics and the DNA damage response in health and disease	<b>22 April</b> JGU Mainz (1)
Jan Padeken	Regulation of heterochromatin in response to genotoxic stress	
Lars Schomacher	Active DNA demethylation by DNA repair mechanisms	<b>23 April</b>
Hans-Peter Wollscheid	Role of the cytoskeleton in genome stability	<b>IMB Mainz (2)</b>
Maximilian Reuter	Principles of genome replication in eukaryotes	
Nard Kubben	Aging-related genomic instability	<b>24 April</b>
Kathi Zarnack	Machine learning models - implications for genome stability	<b>IMB Mainz (2)</b>
Vassilis Roukos	DNA double strand break repair pathways & biogenesis of chromosome translocations*	<b>and online*</b>
Cristina Cardoso	Organization of mammalian DNA replication and its epigenetic regulation	<b>25 April</b>
Alexander Löwer	Dynamics of the DNA damage response in individual living cells	<b>TU Darmstadt (4)</b>

**The lectures are intended for Master's students as well as all other interested students and scientists.**

**Lectures will be held in English.**

**(1)** Lecture room 00.187, Biozentrum 1, Hanns-Dieter-Hüsch-Weg 15, JGU Campus Mainz; **(2)** Seminar room, Institute of Molecular Biology, Ackermannweg 4, JGU Campus Mainz; **(3)** Room 102, B2|61 Botany Student Centre, Schnittspahnstraße 11, Botanical Garden East Campus, TU Darmstadt; **(4)** Room 109, B2|03 Biology Verfügungsgebäude, Schnittspahnstraße 10, Botanical Garden East Campus, TU Darmstadt

\* Lecture will be held online via Zoom



Please visit [www.sfb1361.de/students-postdocs/lectures](http://www.sfb1361.de/students-postdocs/lectures) for up-to-date information on the lecture series.

For further information, please contact Dr Katarina Kruspig: [sfb1361@imb.de](mailto:sfb1361@imb.de), Tel. 06131-39-21962

Participating institutions:

