

# Department of Physiology and Medical Physics

*Summer Science Day*

*Royal Marine Hotel*

*Dun Laoghaire*

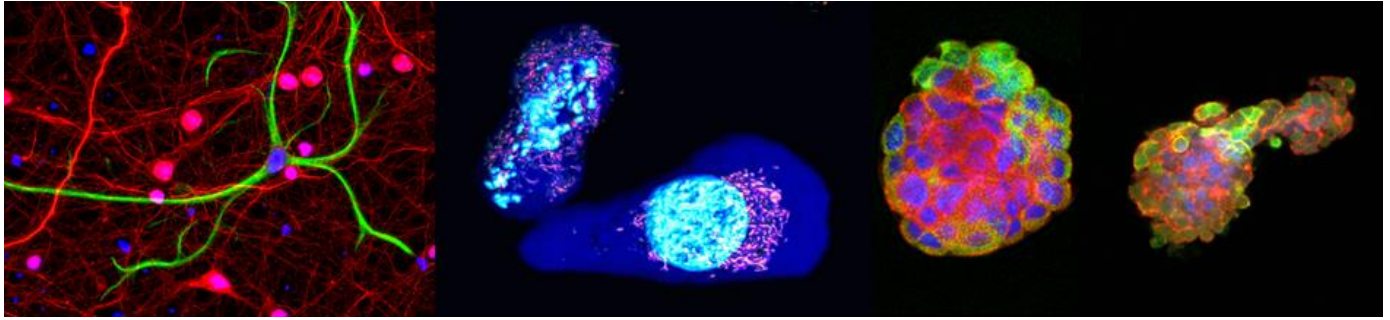
*May 23<sup>rd</sup> 2019*

*Programme*



## **Table of Contents**

Welcome Note .....	3
General Information .....	4
Programme .....	5
Morning Session.....	5
Afternoon Session.....	5
Sponsors.....	7



Images courtesy of Dr Orla Watters, Dr Heiko Düssmann, and Dr Catriona Dowling

## Welcome Note

May 23<sup>rd</sup> 2019

Dear colleagues,

I'm delighted to welcome you to the *Department of Physiology and Medical Physics Summer Science Day 2019*.

The purpose of our Summer Science Day is to foster discussion amongst the research groups and encourage interaction between all colleagues.

As Chair of the Department I am proud of the reputation we have built together during the last 15 years and hope we can continue to grow but also to maintain the unique atmosphere amongst the group that is one of collegiality, equality and respect for all.

I would like to thank the Organising Committee for preparing and reviewing the scientific content and for the coordination of the team building activities, and also to thank you all for taking time away from campus to attend.

I hope you all enjoy the day!

### ***Thanks to our sponsors:***

Our suppliers **Biosciences, Medical Supply Company and Sarstedt, Reagent Genie &**

Thanks for in-house sponsorship from: **GlioTRAIN Network, PurinesDX Network and The FutureNeuro Centre.**

Jochen Prehn

## General Information

Hotel information:

Royal Marine Hotel

Marine Road, Dun Laoghaire

<https://www.royalmarine.ie/>

Tel.: (01) 230 0030

### Organising Committee

Dr Gary Brennan

Ms Patsy Connolly

Dr Helena Bonner

Dr Triona Ni Chonghaile

Dr Isabela Aparicio

Dr Tobias Engel

Dr Niamh Connolly

Ms Ina Woods

### Additional volunteers:

Dr Franziska Walter

Dr Ngoc Thanh Nguyen

Dr Ian Miller

Dr Orla Watters

Ms Luise Halang

Dr Thomas Hill

### Session Chairs:

**Early Career Researchers** – Dr Niamh Connolly and Dr Tobias Engel

**PhD Flash Talks** – Dr Franklin Lincoln

### Judges:

**Early Career Researchers** – Dr Gary Brennan and Dr Triona Ni Chonghaile

**PhD Flash Talks** – Dr Ian Miller and Dr Cristina Ruedell Reschke

## Programme

### Morning Session

9:30-9:45	<i>Arrival &amp; registration</i>		
9:45-9:50	<i>Opening address</i>	<i>Jochen Prehn</i>	<i>The Martello Suite</i>
9:50-10:30	<i>Morning Coffee (Ice Breakers)</i>		<i>The Martello Suite</i>
10:30-10:45	<i>Centre for Systems Medicine - Overview</i>	Jochen Prehn	<i>The Martello Suite</i>
10:45-11:00	<i>Precision Cancer Medicine Group: Top to Bottom</i>	Annette Byrne	
11:00-11:15	<i>FutureNeuro Research Centre - Overview</i>	David Henshall	
<i>Parallel Sessions</i>			
11:15-12:00	<i>Grant writing Q&amp;A</i>	Niamh O'Dowd Tobias Engel	<i>The Dargan Suite</i>
	<i>Reflective Practice</i>	Martina Crehan	<i>The Martello Suite</i>
12:00-12:50	<i>PIs Tour-de-Table</i>		<i>The Martello Suite</i>
	<i>Determining Mitochondria's Distance to Deaths Door</i>	Triona Ni Chonghaile	
	<i>Unravelling the epigenome and epitranscriptome in epilepsy</i>	Gary Brennan	
	<i>The PD-MitoQUANT project</i>	Niamh Connolly	
	<i>Adventures in Genomic Oncology</i>	Simon Furney	
12:50-14:00	<i>Lunch break: Posters &amp; Networking</i>		<i>The Martello Suite</i>

### Afternoon Session

14:00-14:35	<i>Early Career investigator talk – New ideas, New Technologies</i>		<i>The Martello Suite</i>
	<i>DR_MOMP is 6 year old: What was, What is and What will be</i>	Andreas Lindner	
	<i>Tetramethylrhodamine methyl ester (TMRM) reports inner cell death during entosis</i>	Emir Bozkurt	
	<i>Super-resolution imaging to uncover microRNA control of</i>	Janosch Heller	

Physiology & Medical Physics Summer Science Day 2019

	<i>astrocytes in epilepsy</i>		
	<i>Investigating the role of Bromodomain protein 3 in Invasive Lobular Carcinoma</i>	Kathryn Haley	
	<i>Integrated analysis of multi-omic traits from multi-tissue samples predicts drivers of disease outcome and treatment response in colorectal cancer (CRC)</i>	Manuela Salvucci	
<b>14:35-14:50</b>	<b>PhD Flash Talks</b>		<b>The Martello Suite</b>
	<i>Splenic microenvironment alters the anti-apoptotic BCL-2 dependence in T-cell Acute Lymphoblastic Leukaemia</i>	Alessandra Di Grande	
	<i>Phenotypic selection through cell death: stochastic modelling of O-6-methylguanine-DNA methyltransferase dynamics</i>	Ayoub Lasri	
	<i>Identification of a P2X7 dependent biomarker for the diagnosis of epilepsy</i>	Giorgia Conte	
	<i>Mucinous Adenocarcinoma of the colon &amp; rectum: A somatic mutation analysis</i>	Ian S Reynolds	
	<i>Precision Mapping of Tumour Evolution</i>	Valentina Thomas	
<b>14:50-15:10</b>	<i>Core Facilities</i>	Heiko Düsselmann Brenton Cavanagh	<b>The Martello Suite</b>
<b>15:10-15:20</b>	<i>Biobank, Ethics &amp; GDPR</i>	Orna Bacon	
<b>15:20-15:45</b>	<b>Coffee break</b>		
<b>15:45-18:00</b>	<b>Team building activities</b>		
<b>18:00-18:30</b>	<b>Final remarks, prizes &amp; wrap up!</b>		<b>The Martello Suite</b>
<b>18:30- late</b>	<b>Dinner &amp; Social</b>		<b>Dun Restaurant</b>

Sponsors

