

## Programme

Sunday 15th September 2019		
17:00	Registration and refreshments	
18:00	Sally Lowell & Kim Jensen	<b>Introduction:</b> Stem Cell Concepts and Definitions
18.45	Ivan Ivanov	FEBS and EMBO
19:00	Janet Rossant	<b>Plenary Lecture:</b> Making a blastocyst – lineages and stem cells
20:30	<b>Drinks Reception</b>	
21:00	<b>Opening Dinner</b>	

Monday 16 <sup>th</sup> September 2019 - Paradigm Stem Cell Systems		
09:00	Austin Smith	Pluripotent stem cells
10:00	Break with refreshments	
10:30	James Wells	Lessons from tissue development in the embryo
11:30	Break & free time everyone not included in Group 1 Poster Presentations	
11:45	Group 1 - Poster presentations to panel (45 minutes)	
12:30	<b>Networking Event - Boat trip with picnic Lunch</b>	
16:30	Small Group Discussion 1 – with Janet Rossant, Austin Smith or James Wells	
17:30	Shahragim Tajbakhsh	Muscle stem cells
18:30	Break with refreshments	
19:00	Connie Eaves	Haematopoietic stem cells
20:00	Poster Session 1 with refreshments	

Tuesday 17 <sup>th</sup> September 2019 - Paradigm Stem Cell Systems Cont'd		
09:00	Cedric Blanpain	<b>The EMBO Keynote Lecture:</b> Epidermal stem cells
10:00	Break with refreshments	
10:30	Andreas Trumpp	Stem cell analysis at the single cell level
11:30	Break and free time for everyone not included in Group 2 poster presentations	
11:45	Group 2 – Poster presentation to panel (45 minutes)	
15:00	Small Group Discussion 2 – with Shahragim Tajbakhsh, Connie Eaves or Cedric Blanpain	
16:00	Jan Barfoot	Inspire 1: Communicating your research to a non-specialist audience.
17:00	Break with refreshments	
17:30	Agnete Kirkeby	Neural stem cells
18:30	Break with refreshments	
19:00	Jan Barfoot and faculty	Revisiting the lectures: Participants are asked to extract the major points from the lectures, and are provided with an opportunity to ask additional questions to the faculty.
20:00	Poster Session 2 with refreshments	

Wednesday 18 <sup>th</sup> September 2019 – Regulation and Dysregulation		
09:00	Sally Lowell	Cell Fate Choice: Ready, set, differentiate!
10:00	Break with refreshments	
10:30	Andreas Trumpp	Cancer Stem Cells
11:30	Break and free time for everyone not included in Group 3 poster presentations and small group discussions	
11:45	Group 3 - Poster presentation to panel (45 minutes)	
14:00	Jan Barfoot	Inspire 2: Getting out there – activities, games, and videos
15:00	Small Group Discussion 3 – Agnete Kirkeby, Sally Lowell or Andreas Trumpp	
16:00	Kim Jensen	Tissue expansion during development and regeneration
17:00	Break with refreshments	
17:30	Clare Blackburn	Mechanisms controlling thymus formation and regeneration
18:30	Poster Session 3 with refreshments	
20:00	Free evening	

Thursday 19 <sup>th</sup> September 2019 – Making Tissues In Vitro		
09:00	Matthias Lutolf	General principles of Tissue Engineering
10:00	Break with refreshments	
10:30	Henrik Semb	Pancreas development in vivo and in the dish
11:30	Break with refreshments	
12:00	Matthias Lutolf	Applications of Tissue Engineering
13:00	Break and free time for everyone	
15:45	Group 4 - Poster presentation to panel (45 minutes)	
16:30	Small Group Discussion 4 – Kim Jensen, Clare Blackburn, Matthias Lutolf or Henrik Semb	
17:30	Jan Barfoot and faculty	Revisiting the lectures
18:30	Break with refreshments	
19:00	James Wells	From development and disease modelling to therapies
20:00	Poster Session 4 with refreshments	

Friday 20 <sup>th</sup> September 2019 - Realising the promise		
09:00	Connie Eaves	<b>EMBO Women in science Lecture:</b> Science leadership for everyone
10:00	Break with refreshments	
10:30	Christine Mummery	Cardiomyocytes from human pluripotent stem cells in regenerative medicine and drug discovery
11:30	Break and free time for everyone not included in Group 5 poster presentations	
11:45	Group 5 - Poster presentation to panel (45 minutes)	
14:00	Jan Barfoot	Inspire 3: Science writing
15:00	Small Group Discussion 5 – James Wells, Connie Eaves or Christine Mummery	
16:00	Janet Rossant	<b>EMBO Science Policy Lecture:</b> Human embryology and genome editing- opportunities and ethical challenges
17:00	Break with refreshments	
17:30	Cedric Blanpain	Targeting cancer stem cells in malignant disease
18:30	Break with refreshments	
19:00	Allen Eaves	Creative destruction – a path to success outside academia
20:00	Poster Session 5 with refreshments	

# Hydra<sup>XIV</sup> European Summer School on Stem Cell Biology and Regenerative Medicine

<b>Saturday 21<sup>st</sup> September 2019</b>		
09:00	Agnete Kirkeby	Making functional neurons for Parkinson's disease treatment
10:00	Break with refreshments	
10:30	Henrik Semb Towards cell therapy for diabetes	
11:30	Free time	
12:00	Small Group Discussion 6 – Cedric Blanpain, Allen Eaves, Agnete Kirkeby or Henrik Semb	
16:00	Jan Barfoot	Inspire 4: Getting out there - Patient Engagement
17:00	Debate: reiteration of key questions and lessons. All students and faculty	
18:00	Break with refreshments	
18:30	Michele de Luca	Regenerative medicine with somatic stem cells: the paradigm of epithelial stem cells
19:30	Summer school closure	Announcement of poster winners.
20:00	<b>Closing dinner</b>	

<b>Sunday 22<sup>nd</sup> September 2019</b>		
Participants leave Hydra		