



Schrödinger at 75

THE FUTURE OF BIOLOGY

5–6 September, National Concert Hall, Dublin

Programme for Delegates

Day 1: September 5, 2018

Introduction

8.00 – 9.00 am	Registration and coffee
9.00 – 9.10 am	Introduction by Luke O'Neill (Trinity College Dublin) & Mike Murphy (University of Cambridge)
9.10 – 9.20 am	Welcome by President of Trinity College Dublin, Provost Patrick Prendergast

Session 1

Chair: Tomás Ryan (Trinity College Dublin)

9.20 – 9.50 am	John O'Keefe (University College London)— <i>The Future of the Brain</i>
9.55 – 10.25 am	Kay Tye (MIT) – <i>The Future of Emotion</i>
10.30 – 11.00 am	Danielle Bassett (University of Pennsylvania)— <i>The Future of Complex Systems</i>
11.00 – 11.20 am	Coffee Break

Session 2

Chair: Emma Teeling (University College Dublin)

11.20 – 11.50 am	Ada Yonath (Weizmann Institute of Science)— <i>The Future of Molecular Biology</i>
11.55 am – 12.25 pm	Beth Shapiro (University of California, Santa Cruz)— <i>The Future of Extinction</i>
12.30 – 1.00 pm	Svante Pääbo (Max Planck Institute for Evolutionary Anthropology)— <i>The Future of Ancient DNA</i>
1.00 – 2.00 pm	Lunch

Session 3

Chair: Gerald Chan (Morning Side Group)

2.00 – 2.30 pm	Leroy Hood (Institute for Systems Biology) – The Future of Medicine
2.35 – 3.05 pm	Feng Zhang (MIT) – The Future of Gene Editing
3.10 – 3.40 pm	Karl Deisseroth (Stanford University) – The Future of Brain Editing
3.40 – 4.00 pm	Coffee Break

Session 4

Chair: Aoibhinn Ní Shúilleabháin (University College Dublin)

4.00 – 4.30 pm	Murray Shanahan (Deepmind)— <i>The Future of Artificial Intelligence</i>
4.35 – 5.05 pm	Saul Kato (University of California, San Francisco)— <i>The Future of Biological Engineering</i>



Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
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Programme for Speakers

“What is Life?” Keynote Lecture

Chair: Mani Ramaswami (Trinity College Dublin)

5.10 – 5.15 pm Jane Ohlmeyer (Trinity College Dublin)—*Introduction*

5.15 – 6.00 pm Daniel Dennett (Tufts University)—*The Future of Life*

Closing Remarks

Chair: Cliona O’Farrelly (Trinity College Dublin)

6.00 – 6.10 pm Mark Ferguson (Science Foundation Ireland)

6.10 – 7.00 pm Reception (National Concert Hall)

Day 2: September 6, 2018

Session 5

Chair: Mike Murphy (University of Cambridge)

9.00 – 9.30 am Philip Campbell—*The Future of Science Communication*

9.35 – 10.05 am Nick Lane (University College London)—*The Future of Bioenergetics*

10.10 – 10.40 am Linda Buck (Fred Hutchinson Cancer Research Center)—*The Future of Sensation*

10.40 – 11.00 am Coffee Break

Session 6

Chair: Aoife McLysaght (Trinity College Dublin)

11.00 – 11.30 am Kathryn Holt (University of Melbourne)—*The Future of Infectious Disease*

11.35 am – 12.05 pm Ottoline Leyser (University of Cambridge)—*The Future of Plant Life*

12.10 – 12.40 pm Michael Rosbash (Brandeis University)—*The Future of Fruit Fly & Circadian Biology*

12.40 – 1.45 pm Lunch

Session 7

Chair: Jean-Pierre Bourguignon (President of European Research Council)

1.45 – 2.15 pm Bernard Feringa (University of Groningen)—*The Future of Chemistry*

2.20 – 2.50 pm Linda Partridge (University College London)—*The Future of Ageing*

2.55 – 3.25 pm Lydia Lynch (Trinity College Dublin)—*The Future of Immunology*

3.25 – 3.45 pm Coffee Break



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Session 8

Chair: Luke O'Neill (Trinity College Dublin)

3.45 – 4.15 pm

Susumu Tonegawa (MIT)—*The Future of Learning and Memory*

4.20 – 4.50 pm

Michael Gazzaniga (University of California, Santa Barbara)—*The Future of Cognitive Neuroscience*

Schrödinger Lecture

Chair: Eucharía Meehan (Dublin Institute for Advanced Studies)

4.55 – 5.00 pm

Ambassador of Austria to Ireland, H.E. Helmut Freudenschuss—*Introduction*

5.00 – 5.45 pm

Christof Koch (Allen Institute for Brain Science)—*The Future of Consciousness*

Closing Remarks

Chair: Luke O'Neill (Trinity College Dublin)

5.50 – 6.00 pm

Werner Nahm (Dublin Institute for Advanced Studies) & Mike Murphy (University of Cambridge)

6.00 – 7.00 pm

Reception (National Concert Hall)

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