



# 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 Mike Murphy (University of Cambridge) & Luke O'Neill (Trinity College Dublin)  
9.10 – 9.20 am Welcome by Mary Robinson; Chancellor of Trinity College, University of Dublin

#### Session 1

Chair: Tomás Ryan (Trinity College Dublin)

- 9.20 – 9.50 am John O'Keefe (University College London)—*The Future of the Brain*  
9.55 – 10.25 am Kay Tye (MIT) – *The Future of Emotion*  
10.30 – 11.00 am Danielle Bassett (University of Pennsylvania)—*The Future of Complex Systems*  
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)—*The Future of Structural Biology*  
11.55 am – 12.25 pm Beth Shapiro (University of California, Santa Cruz)—*The Future of Extinction*  
12.30 – 1.00 pm Svante Pääbo (Max Planck Institute for Evolutionary Anthropology)—*The Future of Ancient DNA*  
1.00 – 2.00 pm Lunch

#### Session 3

Chair: Gerald Chan (Morningside 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)—*The Future of Artificial Intelligence*  
4.35 – 5.05 pm Saul Kato (University of California, San Francisco)—*The Future of Computational Biology*



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Coláiste na Tríonóide, Baile Átha Cliath  
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#### “What is Life?” Keynote Lecture

Chair: Jane Ohlmeyer (Trinity College Dublin and Chair of Irish Research Council)

- 5.10 – 5.15 pm Introduction Tomás Ryan (Trinity College Dublin)  
5.15 – 6.00 pm Daniel Dennett (Tufts University)—*The Future of Life*

#### Closing Remarks & Reception

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

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##### Session 5

Chair: Mike Murphy (University of Cambridge)

- 9.00 – 9.30 am Philip Campbell (Springer Nature)—*The Future of Science Communication*  
9.35 – 10.05 am Nick Lane (University College London)—*The Future of Bioenergetics*  
10.10 – 10.40 am Emma Teeling (University College Dublin)—*The Future of Zoology*  
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

Introduction by Mani Ramaswami (Trinity College Dublin)

5.00 – 5.45 pm

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

#### Closing Remarks & Reception

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)

### Partners



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