

**Session Program**

12-17 Jul 2026



**European Conference on Mathematical and Theoretical  
Biology (ECMTB 2026)**

***Epidemiological-behavioural modelling to address health  
challenges***

University of Graz

## Tuesday 14 July

15:00

### Epidemiological-behavioural modelling to address health challenges

Session | Location: University of Graz, 15.03 - HS

15:00–15:20

#### Integrating human behaviour and epidemiological modelling: unlocking the remaining challenges

**Speakers**

Edward Hill, Matthew Ryan

15:20–15:40

#### Epidemics Don't Just Spread - People React: Modelling Behaviour in Real Time

**Speaker**

David Haw

15:40–16:00

#### Modelling social influence through discussion-based contacts in coupled behaviour-epidemic models

**Speaker**

Elisabetta Colosi

16:00–16:20

#### Feedback loops in multi-season influenza vaccinations strategies

**Speaker**

Joel Winterton

16:20

17:00

### Epidemiological-behavioural modelling to address health challenges

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#### Modelling the adoption of Integrated Pest Management (IPM) by UK crop growers

**Speaker**

Elliot Vincent

17:20–17:40

#### Memory mechanisms in Bayesian behavioural change epidemic models

**Speaker**

Rob Deardon

17:40–18:00

#### Oscillatory epidemic dynamics driven by non-linear behavioural feedback

**Speaker**

Ryosuke Omori

18:00–18:20

#### Predicting contact rates in response to control measures: a validated protocol for generating contact matrices relevant to transmission modelling of respiratory diseases

**Speaker**

Willem Frederiks

18:20