

## Reinhart-Heinrich Doctoral Thesis Award



ESMTB announces the annual Reinhart Heinrich Doctoral Thesis Award to be presented to the student submitting the best doctoral thesis within the current year 2020 in any area of Mathematical and Theoretical Biology, see <https://esmtb.org/Reinhart-Heinrich-Award>.

**Professor Reinhart Heinrich** (1946 – 2006) started his research career in theoretical physics and then moved into biochemistry, becoming a full professor and head of theoretical biophysics at the Humboldt University, Berlin in 1990. He is considered a father of the field that is now named Systems Biology, since he investigated various topics such as modelling metabolic networks and metabolic control theory, modelling of signal transduction networks, nonlinear dynamics as applied to biological systems, protein translocation, lipid translocation, vesicular transport, and even DNA repair. Reinhart Heinrich was always searching for the principles that underlie observations, looking for different perspectives and connecting theoretical abstraction with biological evidence. In this way, he inspired numerous students, gave them insight and direction for future research in modern mathematical and theoretical biology, and organized a large number of memorable conferences. Gratefully acknowledging his stimulating support of our interdisciplinary field and, in particular, his way of guiding students and young scientists, the Board of ESMTB decided to offer a Doctoral Thesis Award annually to commemorate Reinhart Heinrich and his legacy in mathematical and theoretical biology.

### Prize Awarding Committee

Reinhard Buerger, Carlos Braumann, Helen Byrne, Mirjam Kretzschmar, Stefan Schuster (former assistant to Reinhart Heinrich)

### Award

- Publication of a summary of the thesis receiving the award as lead article in the 2021 issue of the European Communications in Mathematical and Theoretical Biology.
- Invitation to present a lecture at the forthcoming ESMTB Conference or, alternatively, a limited travel grant by ESMTB for a scientific visit of the recipients own choice;
- 1 year's free membership of ESMTB
- A voucher for Springer books.

### Application

Potential applicants may be nominated by any ESMTB member.

To nominate a person for the **Reinhart-Heinrich Doctoral Thesis Award**, the following information should be submitted to Stefan Schuster ([stefanschu@gmail.com](mailto:stefanschu@gmail.com)):

1. Name, address, phone number, affiliation, and email address of the **nominator**.
2. Name, address, phone number, affiliation, and email address of the **nominee**.
3. A detailed **statement** describing why the nominee should be considered for the award.
4. An **extended summary** of the thesis (ca. 2-5 pages plus eventual pictures).
5. A **CV** of the nominee in some form.

Closing date for nominations is **31st January 2021**.

Only theses that have been accepted in 2020 can be considered. The acceptance date is the date at which the thesis is considered by the institution as fulfilling all the requirements for the granting of the doctoral degree, even if such degree will be formally attributed at a later date. It is the successful thesis defense date if no changes are demanded or, when changes in the thesis are required, the date when such changes are accepted by the institution.

**Shortlisted applicants will be asked to send their full thesis.**