

European Society  
for Evolutionary Biology

20 - 25 August 2017  
Groningen, the Netherlands

ESEB  
XVI Congress



# PROGRAMME

The Conference will take place at the  
Conference Venue MartiniPlaza in Groningen, The Netherlands.

Address:  
Leonard Springerlaan 2  
NL-9727 KB Groningen,  
The Netherlands



## Sunday 20 August

|             |                                                                                   |
|-------------|-----------------------------------------------------------------------------------|
| 15:30       | Registration conference delegates                                                 |
| 17.30-17.40 | Opening by <b>Leo Beukeboom</b> [Room A]                                          |
| 17.40-18.00 | Opening address by <b>Sibrand Poppema</b> [Room A]                                |
| 18.00-19.00 | Opening keynote lecture by <b>Linda Partridge</b> (chair Simon Verhulst) [Room A] |
| 19.00-21.00 | Welcome reception [Room A foyer]                                                  |

# Monday 21 August 2017

|             |                                                                                                   |                                                                              |                                                      |                                                                      |                                      |                                                                   |                                        |                                                                             |                               |
|-------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------|-------------------------------|
| 8.50-9.00   | Announcements [room A]                                                                            |                                                                              |                                                      |                                                                      |                                      |                                                                   |                                        |                                                                             |                               |
| 9.00-9.50   | Keynote lecture <b>Svante Pääbo</b> (chair Nicole Bender) [room A]                                |                                                                              |                                                      |                                                                      |                                      |                                                                   |                                        |                                                                             |                               |
|             | Place                                                                                             | Room A                                                                       | Room B                                               | Room C                                                               | Room F                               | Room G                                                            | Room K                                 | Room L                                                                      | Room M                        |
|             | Symposium                                                                                         | <b>S5 Evolutionary biology of ageing: integrating function and mechanism</b> | <b>S22 Coevolution of hosts and their microbiome</b> | <b>S4 Evolution of immune diversity</b>                              | S30 Phylogenetics in the genomic era | <b>S1 Parasite evolution in response to treatment</b>             | S11 Evolution of communication signals | S17 Evolutionary causes and consequences of variation in recombination rate | S23 Rapid evolution revisited |
| 10.00-11.00 | Invited talks                                                                                     |                                                                              |                                                      |                                                                      |                                      |                                                                   |                                        |                                                                             |                               |
| 11.00-11.30 | BREAK                                                                                             |                                                                              |                                                      |                                                                      |                                      |                                                                   |                                        |                                                                             |                               |
| 11.30-13.10 | Sessions                                                                                          |                                                                              |                                                      |                                                                      |                                      |                                                                   |                                        |                                                                             |                               |
| 13.10-14.30 | LUNCH                                                                                             |                                                                              | 13.30-14.30 Speed date: ESEB meets ISEMPH [Room X]   |                                                                      |                                      |                                                                   |                                        |                                                                             |                               |
|             | Symposium                                                                                         | <b>S5 continued</b>                                                          | <b>S22 continued</b>                                 | S14 Fitness landscapes, big data and the predictability of evolution | S30 continued                        | <b>S2 The spread and evolution of ancient infectious diseases</b> | S11 continued                          | S17 continued                                                               | S23 continued                 |
| 14.30-15.30 | Sessions                                                                                          |                                                                              |                                                      |                                                                      |                                      |                                                                   |                                        |                                                                             |                               |
| 15.30-15.50 | BREAK                                                                                             |                                                                              |                                                      |                                                                      |                                      |                                                                   |                                        |                                                                             |                               |
| 15.50-16.40 | Sessions                                                                                          |                                                                              |                                                      |                                                                      |                                      |                                                                   |                                        |                                                                             |                               |
| 16.45-17.25 | Plenary <b>Steve Stearns</b> (chair Koos Boomsma) [room A]<br>Closure ISEMPH 2017                 |                                                                              |                                                      |                                                                      |                                      |                                                                   |                                        |                                                                             |                               |
| 17.30-19.30 | Poster session 1 [Expo1] ISEMPH, S1, S2, S4, S5, S11, S14, S17, S22, S23, S30, S35 uneven numbers |                                                                              |                                                      |                                                                      |                                      |                                                                   |                                        |                                                                             |                               |
| 19.30-23.00 | The Pavilion                                                                                      |                                                                              |                                                      |                                                                      |                                      |                                                                   |                                        |                                                                             |                               |

\* ISEMPH related symposia in **bold**

## Tuesday 22 August 2017

|             |                                                                                              |                            |                                                                                                                                                                                                                                                                                                                                                                                  |                                             |                                   |                                                                      |                                                    |                                               |                                                              |
|-------------|----------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------|----------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------|
| 8.50-9.00   | Announcements [room A]                                                                       |                            |                                                                                                                                                                                                                                                                                                                                                                                  |                                             |                                   |                                                                      |                                                    |                                               |                                                              |
| 9.00-9.50   | Keynote <b>Nicole Dubilier</b> (chair Bregje Wertheim) [room A]                              |                            |                                                                                                                                                                                                                                                                                                                                                                                  |                                             |                                   |                                                                      |                                                    |                                               |                                                              |
|             | Room                                                                                         | Room A                     | Room B                                                                                                                                                                                                                                                                                                                                                                           | Room C                                      | Room F                            | Room G                                                               | Room K                                             | Room L                                        | Room M                                                       |
|             | Symposium                                                                                    | S16 Genomics of adaptation | S24 Eco-evolutionary dynamics                                                                                                                                                                                                                                                                                                                                                    | S19 Evolution of gene expression regulation | S8 Major transitions in evolution | S34 Applications of evolutionary biology in agriculture and industry | S15 Experimental evolution in complex environments | S12 Environmental effects on sexual selection | S13 Modern quantitative genetics and the study of adaptation |
| 10.00-11.00 | Invited talks                                                                                |                            |                                                                                                                                                                                                                                                                                                                                                                                  |                                             |                                   |                                                                      |                                                    |                                               |                                                              |
| 11.00-11.30 | BREAK                                                                                        |                            |                                                                                                                                                                                                                                                                                                                                                                                  |                                             |                                   |                                                                      |                                                    |                                               |                                                              |
| 11.30-13.10 | Sessions                                                                                     |                            |                                                                                                                                                                                                                                                                                                                                                                                  |                                             |                                   |                                                                      |                                                    |                                               |                                                              |
| 13.10-14.30 | LUNCH                                                                                        |                            | 13.30-14.30 satellite meeting <b>National Science Foundation (USA) Information session</b> [room J]<br>13.30-14.30 satellite meeting <b>"Research in Germany Science Lunch": Evolutionary biology in Germany and funding programmes</b> [room H]<br><a href="#">13.30-15.00 workshop Evolutionary biology and open science: practices, challenges and opportunities</a> [room X] |                                             |                                   |                                                                      |                                                    |                                               |                                                              |
|             | Symposium                                                                                    | S16 <i>continued</i>       | S24 <i>continued</i>                                                                                                                                                                                                                                                                                                                                                             | S19 <i>continued</i>                        | S8 <i>continued</i>               | S21 Genetic exchange in microbial adaptation and infectious disease  | S15 <i>continued</i>                               | S12 <i>continued</i>                          | S13 <i>continued</i>                                         |
| 14.30-15.50 | Sessions                                                                                     |                            | 15.00-17.00 satellite meeting <b>DrosEU: ESEB STN European Drosophila Population Genomics</b> [room J]                                                                                                                                                                                                                                                                           |                                             |                                   |                                                                      |                                                    |                                               |                                                              |
| 15.50-16.20 | BREAK                                                                                        |                            |                                                                                                                                                                                                                                                                                                                                                                                  |                                             |                                   |                                                                      |                                                    |                                               |                                                              |
| 16.20-17.20 | Sessions                                                                                     |                            |                                                                                                                                                                                                                                                                                                                                                                                  |                                             |                                   |                                                                      |                                                    |                                               |                                                              |
| 17.30-19.30 | Poster session 2 [Expo 1] S8, S12, S13, S15, S16 uneven, S19, S21, S24 uneven, S34, S35 even |                            |                                                                                                                                                                                                                                                                                                                                                                                  |                                             |                                   |                                                                      |                                                    |                                               |                                                              |
| 19.30-23.00 | The Pavilion                                                                                 |                            |                                                                                                                                                                                                                                                                                                                                                                                  |                                             |                                   |                                                                      |                                                    |                                               |                                                              |

## Wednesday 23 August 2017

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                        |                                                |                                                   |                                                                  |                                 |                     |                      |                                                                                       |                      |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------|---------------------------------|---------------------|----------------------|---------------------------------------------------------------------------------------|----------------------|
| 8.50-9.00                                  | Announcements [room A]                                                                                                                                                                                                                                                                                                                                                                                 |                                                |                                                   |                                                                  |                                 |                     |                      |                                                                                       |                      |
| 9.00-9.50                                  | Keynote <b>Andreas Wagner</b> (chair Franjo Weissing) [room A]                                                                                                                                                                                                                                                                                                                                         |                                                |                                                   |                                                                  |                                 |                     |                      |                                                                                       |                      |
|                                            | Room                                                                                                                                                                                                                                                                                                                                                                                                   | Room A                                         | Room B                                            | Room C                                                           | Room F                          | Room G              | Room K               | Room L                                                                                | Room M               |
|                                            | Symposium                                                                                                                                                                                                                                                                                                                                                                                              | S16 Genomics of adaptation<br><i>continued</i> | S24 Eco-evolutionary dynamics<br><i>continued</i> | S3 Network-based approaches in evolutionary biology and medicine | <b>S7 Sociality and disease</b> | S33 Urban evolution | S35 Open symposium 1 | S28 Intragenomic conflicts and cytonuclear incompatibilities as engines of speciation | S35 Open symposium 2 |
| 10.00-11.00                                | Invited talks / Sessions                                                                                                                                                                                                                                                                                                                                                                               |                                                |                                                   |                                                                  |                                 |                     |                      |                                                                                       |                      |
| 11.00-11.30                                | BREAK                                                                                                                                                                                                                                                                                                                                                                                                  |                                                |                                                   |                                                                  |                                 |                     |                      |                                                                                       |                      |
| 11.30-13.10                                | Sessions                                                                                                                                                                                                                                                                                                                                                                                               |                                                |                                                   |                                                                  |                                 |                     |                      |                                                                                       |                      |
| 13.10-14.30                                | LUNCH                                                                                                                                                                                                                                                                                                                                                                                                  |                                                |                                                   |                                                                  |                                 |                     |                      |                                                                                       |                      |
| Afternoon<br>(see schedule on the website) | EXCURSION <ul style="list-style-type: none"> <li>• Excursion Wadden Sea</li> <li>• Excursion City walk</li> <li>• Excursion Hooghoudt</li> <li>• Excursion Onlanden Walking tour</li> <li>• Excursion Onlanden Cycling tour</li> <li>• Excursion Drentsche AA Walking tour</li> <li>• Excursion Drentsche AA Cycling tour</li> <li>• Birdwatchers excursion</li> <li>• Excursion Weerribben</li> </ul> |                                                |                                                   |                                                                  |                                 |                     |                      |                                                                                       |                      |

# Thursday 24 August 2017

|             |                                                                                                                     |                                         |                                                                                                                                                                                            |                                              |                                                                          |                                                       |                       |                                                |                                                                                                  |
|-------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------|-----------------------|------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 8.50-9.00   | Communications [room A]                                                                                             |                                         |                                                                                                                                                                                            |                                              |                                                                          |                                                       |                       |                                                |                                                                                                  |
| 9.00-9.50   | Keynote <b>Renee Duckworth</b> (chair Martine Maan) [room A]                                                        |                                         |                                                                                                                                                                                            |                                              |                                                                          |                                                       |                       |                                                |                                                                                                  |
|             | Room                                                                                                                | Room A                                  | Room B                                                                                                                                                                                     | Room C                                       | Room F                                                                   | Room G                                                | Room K                | Room L                                         | Room M                                                                                           |
|             | Symposium                                                                                                           | S26 Adaptation to global climate change | S24 Eco-evolutionary dynamics <i>continued</i>                                                                                                                                             | S29 Integration of micro- and macroevolution | S9 Fitness and evolution in a social environment: from theory to reality | S31 Evolution across the mutualist-parasite continuum | S25 Spatial evolution | S27 Evolutionary implications of hybridization | S20 Evolutionary implications of transposable elements, epigenetics, and non-genetic inheritance |
| 10.00-11.00 | Invited talks                                                                                                       |                                         |                                                                                                                                                                                            |                                              |                                                                          |                                                       |                       |                                                |                                                                                                  |
| 11.00-11.30 | BREAK                                                                                                               |                                         |                                                                                                                                                                                            |                                              |                                                                          |                                                       |                       |                                                |                                                                                                  |
| 11.30-13.10 | Sessions                                                                                                            |                                         |                                                                                                                                                                                            |                                              |                                                                          |                                                       |                       |                                                |                                                                                                  |
| 13.10-14.30 | LUNCH                                                                                                               |                                         | 13.30-14.30 satellite meeting <b>Royal Society Meet the Editors</b> [room H]<br><a href="#">13.30-15.30 workshop Science policies: how should evolutionary biology be funded?</a> [room X] |                                              |                                                                          |                                                       |                       |                                                |                                                                                                  |
|             |                                                                                                                     | S26 <i>continued</i>                    | S35 Open symposium 3                                                                                                                                                                       | S29 <i>continued</i>                         | S9 <i>continued</i>                                                      | S31 <i>continued</i>                                  | S25 <i>continued</i>  | S27 <i>continued</i>                           | S20 <i>continued</i>                                                                             |
| 14.30-15.50 | Sessions                                                                                                            |                                         |                                                                                                                                                                                            |                                              |                                                                          |                                                       |                       |                                                |                                                                                                  |
| 15.50-16.20 | BREAK                                                                                                               |                                         |                                                                                                                                                                                            |                                              |                                                                          |                                                       |                       |                                                |                                                                                                  |
| 16.20-17.20 | Sessions                                                                                                            |                                         |                                                                                                                                                                                            |                                              |                                                                          |                                                       |                       |                                                |                                                                                                  |
| 17.30-19.30 | Poster session 3 [Expo 1] S3, S6, S7, S9, S10, S16 even, S18, S20, S24 even, S25, S26, S27, S28, S29, S31, S32, S33 |                                         |                                                                                                                                                                                            |                                              |                                                                          |                                                       |                       |                                                |                                                                                                  |
| 19.30-23.00 | The Pavilion                                                                                                        |                                         |                                                                                                                                                                                            |                                              |                                                                          |                                                       |                       |                                                |                                                                                                  |

## Friday 25 August 2017

|             |                                                                             |                                                          |                                             |                         |                                                   |                                                             |                                        |                                                         |                      |
|-------------|-----------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------|-------------------------|---------------------------------------------------|-------------------------------------------------------------|----------------------------------------|---------------------------------------------------------|----------------------|
| 8.50-9.00   | Announcements [room A]                                                      |                                                          |                                             |                         |                                                   |                                                             |                                        |                                                         |                      |
| 9.00-9.50   | Keynote <b>Chris Jiggins</b> (chair Jacintha Ellers) [room A]               |                                                          |                                             |                         |                                                   |                                                             |                                        |                                                         |                      |
|             | Room                                                                        | Room A                                                   | Room B                                      | Room C                  | Room F                                            | Room G                                                      | Room K                                 | Room L                                                  | Room M               |
|             | Symposium                                                                   | S26 Adaptation to global climate change <i>continued</i> | S16 Genomics of adaptation <i>continued</i> | S10 Cognitive evolution | S6 Evolutionary significance of biological clocks | S18 The evolutionary significance of chromosomal inversions | S25 Spatial evolution <i>continued</i> | S32 Coevolution in antagonistic ecological interactions | S35 Open symposium 4 |
| 10.00-11.00 | Invited talks / Sessions                                                    |                                                          |                                             |                         |                                                   |                                                             |                                        |                                                         |                      |
| 11.00-11.30 | BREAK                                                                       |                                                          |                                             |                         |                                                   |                                                             |                                        |                                                         |                      |
| 11.30-13.10 | Sessions                                                                    |                                                          |                                             |                         |                                                   |                                                             |                                        |                                                         |                      |
| 13.10-14.10 | LUNCH                                                                       |                                                          |                                             |                         |                                                   |                                                             |                                        |                                                         |                      |
| 14.10-15.10 | ESEB Members meeting [room A]                                               |                                                          |                                             |                         |                                                   |                                                             |                                        |                                                         |                      |
| 15.10-15.50 | ESEB Presidential Address Nina Wedell [room A]                              |                                                          |                                             |                         |                                                   |                                                             |                                        |                                                         |                      |
| 15.50-16.20 | BREAK                                                                       |                                                          |                                             |                         |                                                   |                                                             |                                        |                                                         |                      |
| 16.20-16.50 | MS prize winner 2016 E. Keith Bowers (chair Ellen Decaestecker) [room A]    |                                                          |                                             |                         |                                                   |                                                             |                                        |                                                         |                      |
| 16.50-17.20 | MS prize winner 2017 Amanda Kyle Gibson (chair Ellen Decaestecker) [room A] |                                                          |                                             |                         |                                                   |                                                             |                                        |                                                         |                      |
| 17.20-17.50 | Closing ceremony [room A]                                                   |                                                          |                                             |                         |                                                   |                                                             |                                        |                                                         |                      |
| 19.00-21.00 | Conference dinner [The Pavillion + Stadspark]                               |                                                          |                                             |                         |                                                   |                                                             |                                        |                                                         |                      |
| 21.00-01.00 | Party [The Pavilion + Stadspark]                                            |                                                          |                                             |                         |                                                   |                                                             |                                        |                                                         |                      |