

## ISHPSSB2013 – Traditional Session Form

Please fill in this form, rename it (on the following model: Name of the organizer\_ Title of session), and submit it as a PDF file at the Third step (“Files”) of the submission process (please select “Presentation” as the “Type of the file”).

**Title of the session (mandatory):** Philosophical perspectives *on* and *from* systems biology

**Organizer of the session (may but need not be a participant in the session) (mandatory):**

Sara Green (speaker and principal organizer)  
Robert Richardson (speaker and co-organizer)

**Names of all the participants in the session (mandatory):**

1. Robert Richardson (University of Cincinnati) & Fred Boogerd (Vrije Universiteit)
2. Sara Green (, Aarhus University)
3. Olaf Wolkenhauer (University of Rostock) & Rogier De Langhe (Tilburg University)

**Name of Chairperson (mandatory) (cannot be one of the participants):**

Veli-Pekka Parkkinen (University of Oslo)

**Names of respondents or commentators (if any):**

**Theme of your session (please pick *one* theme in the list below) (mandatory):**

- Systems Biology, Synthetic Biology and Genomics

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**List of themes:**

- Anthropology
- Cellular and Molecular Biology: Historical and Philosophical Approaches
- Development and Evo-devo
- Ethical and bioethical issues
- Evolutionary Biology: Origin, and early developments
- Evolutionary Biology: The Modern Synthesis
- Evolutionary Biology: The recent challenges
- Evolutionary Biology: Theoretical and conceptual issues (e.g. definition of Darwinian processes, levels of selection, etc.)
- Evolutionary Biology: Cooperation, altruism, evolution and economy
- Evolutionary Psychology
- Functions and Mechanisms
- Gender Studies
- Historical, philosophical and sociological perspectives on:
  - Ecology
  - Epigenetics
  - Origins of life, minimal life
  - History of Genetics
- Neurosciences and cognitive sciences: scientific, social, and philosophical issues

- The “organism” problem
- Public Health issues, and their social dimensions
- Reductionism, antireductionism, emergence
- The “species” problem
- Systematics and classification
- Systems Biology, Synthetic Biology and Genomics
- Teaching Biology
- Others