

Pôle 5 - Integral Human Development, Ecology and Ethics

INTERNATIONAL CONFERENCE

SYMBIOSES 2, transdisciplinary prospects

Program

21 and 22 november 2024

UCLY
Campus Saint-Paul
Amphi Aubert
10 place des Archives
69002 LYON

Free registration: <https://forms.gle/sH4MrHW5aFnuZz2w7>

Symbiosis is an old concept in political theory, first appearing in the 2nd century B.C., as we already find it in Polybius, who uses it to describe the type of relationship he believes should prevail between a general and his army. But it wasn't until the 19th century that symbiosis has officially entered the life sciences, with Anton de Bary's proposal to explain the structure and identity of lichen as an alga-fungus association, in the sense of an intimate and lasting community of life between two different species. Since then, symbiosis has not left science, and has even seen a resurgence in its use with the advent of environmental science in the 1970s and microbiota science since the 2000s.

The study of the interdisciplinary notion of symbiosis has developed in connection with the question of biological identity and its fate during the long-lasting symbiotic relationship with an associated environment (biotic, abiotic, social). The 20th century not only saw the deployment of symbiosis in the life sciences, but also saw the proliferation of analogical and/or metaphorical uses of symbiosis in other disciplines, such as psychology, anthropology, sociology, economics and art.

This raises the question of whether, and to what extent, symbiosis still refers today to the notion of life in the biological sense.

Do "life" [*bios*] and the expression "life" "together" [*syn -bios*], take on a radically different meaning in these new registers in the course of the 20th century, without any strictly biological connotations?

The broader use of the word symbiosis questions the very possibility of continuity between biological and social norms, and calls for a reformulation of this usage, all the more necessary in view of recent scientific discoveries on the role of the microbiota in human health and behavior. What are the criteria for an analogy between biological and social symbiosis? And what are the implications for the question of individuality?

By using a transdisciplinary method, the objectives of the SYMBIOSES 2 Conference are to compare the definitions of symbiosis by analyzing their symbolic and even metaphorical dimensions, between biology, psychology, anthropology, sociology, economics and art, and to question the very possibility of continuity between biological and social norms, in view of a reformulation of the definition of symbiosis due to recent scientific findings on the role of the microbiota in human health and behavior.

Axis 1: What are the criteria for defining symbiosis in biology?

This theme is open to contributions on the usual criteria of symbiosis in biology. In particular, but not exclusively, we will be looking at sympoiesis, autonomy and the ethical aspects of considering the value of the partners in the symbiotic relationship.

Axis 2: Can the criteria for defining symbiosis in biology enrich or even justify the uses of the word in other disciplines?

This axis is devoted to a critical analysis of the uses of symbiosis in a non-biological sense by researchers in other disciplines, through an analysis of their heuristics but also their potentially negative effects.

In particular:

Does the wider use of the word symbiosis outside biology require to retain any biological dimension?

Axis 3: How can the use of symbiosis in the humanities, social sciences and the arts enrich other disciplines, first and foremost biology itself?

We invite researchers from the humanities, social sciences and the arts to propose contributions aimed at identifying the criteria inherent in the use of symbiosis in their approach.

Axis 4: Doesn't the extension of the biological concept of symbiosis, with a few minor modifications, into fields other than biology, lead us to reconsider the disciplinary boundaries between sciences?

In particular, but not exclusively, we invite researchers from the social sciences and biologists to present contributions aimed at illustrating and analyzing a possible continuity between their respective approaches to symbiosis.

All talks are in French, except those of Iacopo Passeri and Hub Zwart on November 21 which are in English.

Thursday 21st november

08:45 | Opening

09:00 | Introduction

AXIS 1. WHAT ARE THE CRITERIA FOR DEFINING SYMBIOSIS IN BIOLOGY?

Symbiosis in the plant world

Presidency : Claire BRUN, UCLy, France

09:15 | Chronic infections or friendships, the several facets of the symbiosis

Alessio MENGONI, University of Florence, Italy

10:00 | The pan-epigenetics of

Sinorhizobium meliloti

Iacopo PASSERI, University of Florence, Italy

10:45 | Break

Symbiosis in microbial ecology and medicine

Presidency : Michel RAQUET, UCLy, France

11:00 | Microbial communities: exploring hidden relationships in the gut microbiota

Mathilde SOLA, INRAE, France

11:45 | Microbiotic symbiosis and diseases

Laurence TERZAN, EPHE, France

12:30 | Lunch break

AXIS 2. CAN THE CRITERIA FOR DEFINING SYMBIOSIS IN BIOLOGY ENRICH OR JUSTIFY THE USES OF THE WORD IN OTHER DISCIPLINES?

Symbiosis and social interactions

Presidency : Juan VIDAL, UCLy, France

13:45 | Microbial states and social behavior: towards an extended influence of symbiosis?

Julien TAP, INRAE, France

Béatrice DE MONTERA, UCLy, France

14:30 | Towards an interactive understanding of social cognition: advances in collective neuroscience?

Quentin MOREAU, ISC Marc Jeannerod, France

15:15 | Break

Symbiosis and associated words

Presidency : Moreno CAMPETELLA, UCLy, France

15:30 | 'Symbiosis' and its other names: the contemporary fortunes of the 'symbiosis' in dialogue with concepts from other languages and cultural contexts

Vincent ZONCA, independent researcher, Canada/France

16:15 | The cyborg: a figure of human-machine symbiosis?

Sylvie ALLOUCHE, UCLy, France

17:00 | Break

17:15 | Symbiosis, self-care and individuation

Hub ZWART, Erasmus University Rotterdam, Netherlands

17:30 | Round table 1 (Axes 1 and 2)

Moderated by : Hub ZWART, Erasmus University Rotterdam, Netherlands

18:15 | Exhibition by Sara MANENTE, (a.pass, Belgium) [Salle Vicat (A031)]

Followed by a convivial moment

Friday 22nd november

AXIS 2 (CONTINUED). CAN THE CRITERIA FOR DEFINING SYMBIOSIS IN BIOLOGY ENRICH OR JUSTIFY THE USES OF THE WORD IN OTHER DISCIPLINES?

Symbiosis and mother-child relationship

Presidency : Laurence TERZAN, EPHE, France

08:45 | Pregnancy: a problematic symbiotic relationship

Marika MOISSEFF, CNRS/LAS, France

09:45 | On symbiosis in psychoanalysis

Mathilde DUBLINIAU and Anne-Claire DOBRZYNSKI, University Lumière Lyon 2, France

10:30 | Break

AXES 3 AND 4. HOW CAN THE USES OF SYMBIOSIS IN THE HUMAN AND SOCIAL SCIENCES OR IN ART ENRICH OTHER DISCIPLINES? DOESN'T THE EXTENSION OF THE BIOLOGICAL CONCEPT OF SYMBIOSIS FORCE US TO RECONSIDER THE DISCIPLINARY BOUNDARIES BETWEEN SCIENCES?

Symbiosis as a source of inspiration

Presidency : Sylvie ALLOUCHE, UCLy, France

10:45 | Cooperation between human and non-human microbiota: towards more empirical forms of organizational governance? (Salle Vicat (A031))

Nathalie JANIN et al., Archipel Kyosei, France

11:45 | Lunch break

13:00 | An overview of the use of the notion of symbiosis in contemporary pictorial creations

Michel RAQUET, UCLy, France

13:45 | Composing (with) the living: symbiosis as an operating model in research-creation

Diane SCHUH, University Paris 8, France

14:30 | Fermenting, publishing, mushrooming

Sara MANENTE, a.pass, Belgique

15:15 | Break

15:30 | From symbiosis to networks

Marc-André SELOSSE, MNHN, France

15:45 | Round table 2 (Axes 2, 3 and 4)

Moderated by : Marc-André SELOSSE, MNHN, France

16:30 | Synthesis: "Symbiosis in nature and society: implications of a new paradigm"

Joël DORÉ, INRAE, France

16:50 | Conclusion

Informations

Admission: Free registration
Face to face and videoconference

Mandatory registration via this link:
<https://forms.gle/sH4MrHW5aFnuZz2w7>

Location
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Contacts
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Conference coordination

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Scientific committee

Sylvie Allouche	Joël Doré
Claire Brun	Michel Raquet
Moreno Campetella	Laurence Terzan
Emmanuel d'Hombres	Juan Vidal
Béatrice de Montera	Hub Zwart