



# III SIMPOSIO INTERNACIONAL DE BIOMÍMESIS

XALAPA VERACRUZ, MÉXICO



*Interactions between bioinspiration, Future sciences and arts*

Virtually from **October 5 to 8, 2021**

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The III International Symposium on Biomimicry is titled *Interactions between bioinspiration, future sciences and arts*; and its areas of work address frontier knowledge and provide proactive and resilient solutions under the prism of an intelligent observation in harmony with nature. The six sections are as follows:

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|-----------------------------|---------------------|
| 1) Theories                 | 4) Entrepreneurship |
| 2) Bioinspired architecture | 5) Bioinspired arts |
| 3) Mexico                   | 6) Youth            |

## PROGRAM

For the PLENARY section, interventions are scheduled only at the invitation of the organizing group. For the ROOM section, authors who are members of RI<sup>3</sup> Biomimicry and wish to submit papers (oral presentation maximum **10 min**) must send before **September 20, 2021**  
E X T E N D E D to the mail:

<simposio.xalapa@redinternacionalbiomimesis.org>

The abstract of your paper or art intervention with an extension of 300 words in both SPANISH and ENGLISH, with a maximum of 2 co-authors and interdisciplinary character. Please indicate one of the six sections of the Symposium. All papers must be original, have explicit reference to biomimicry, be self-authored and recent. Indicate 5 keywords other than biomimicry.

## CALENDAR

Activities	Deadline 2021
<b>Abstract submission</b>	
<b>EXTENDED</b>	September 20
<a href="#">Program publication</a>	September 25
<b>Final program of the Symposium</b>	September 30
<b>III International Symposium on Biomimicry</b>	October 5 to October 8 - 8am to 12pm MX Central Time GMT-6

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## BACKGROUND

Humanity is going through difficult times, the result of its way of conceiving reality based on a dominantly positivist culture and its capitalist economy that seeks unlimited growth in a finite world. This approach to economic growth has had a drastic impact on biogeochemical cycles, negatively impacting life forms at the ecosystemic level in the biosphere. The historical development of humanity, since the first industrial revolution, has been out of step with the economics of nature and works against the regeneration and reproduction of the natural and socio-cultural base of most ethnic minorities.

This recognition and interpretation of the natural phenomenology with the human phenomenology and the other way around, must start from strategies that lead to joint processes, through mutual support and inter and intragenerational solidarity to make holistic sciences, to live in harmony with nature. The biomimetic paradigm is a viable alternative to follow. Biomimicry is a source and a horizon of inspiration in nature. Therefore, priority must be given to conservation, the regenerative approach, reuse, recycling, reduction and redistribution, so that the social, cultural and political coupling to natural limits is achieved; dimensions that are a guarantee of success, as well as of the permanence of life as we know it.

Under these premises, we created the **Red Internacional, Interuniversitaria e Interinstitucional de Estudios sobre Biomímesis** (International, Interuniversity and Interinstitutional Network on Biomimicry Studies) in 2016 in the city of Leticia, Colombia. This is the result of alliances between higher education (public and private), third sector organizations, private enterprise and the leadership of AMASSUNU, the UNESCO Chair in Sustainable Development and Environmental Education and the Institute of Applied Business Economics of the University of the Basque Country.

The School of Agricultural, Livestock and Environmental Sciences (ECAMPA) of the Universidad Nacional Abierta y a Distancia (UNAD) of Colombia also supported the project. And with the support of 13 other Ibero-American universities and civil society organizations, especially the indigenous peoples

of the Amazon. The theme of the I Symposium was *Creative Inspiration in Nature and Potential Sustainability Scenarios*. The book of abstracts of the symposium is available for consultation. Two years later **RI<sup>3</sup> Biomimicry** developed the book *Redescubriendo el mundo natural La biomimesis en perspectiva* (Re-Discovering the Natural World: Biomimicry in Perspective) which was published and presented in 2019 during the II Symposium at the Amazonian University of Pando, in its capital Cobija, Bolivia. Details of the II Amazon, Consciousness and Technology Symposium are available on its website [amazoniasmart.org](http://amazoniasmart.org).

It is important to highlight that the III International Symposium on Biomimicry is entitled *Interactions between bioinspiration, future sciences and arts*, which will be held virtually between October 5 and 8, 2021, at the Instituto de Ecología A.C. (INECOL) of the National Council of Science and Technology (CONACYT) located in the city of Xalapa, capital of the state of Veracruz, Mexico.

The purpose of **RI<sup>3</sup> Biomimicry** is to promote a space for reflection on transdisciplinary sciences and technologies, with a dialogue of knowledge. Biomimicry promotes biophilia and topophilia, a new inclusive and regenerative techno-scientific praxis, in the perspective of mutual support for rethinking the past and reflection towards the future in order to act in favor of the planet. Within the postulates of biomimicry: nature as a reference for the progress of humanity but preserving ecosystem services. From these postulates, RI<sup>3</sup> Biomimicry brings together people whose academic, research, knowledge, business and active activity on the planet to exchange ideas, reflections and experiences on biomimicry, and proposals on the strategies of contemporary technosciences to promote and draw inspiration from nature.

The Network recognizes the importance of the socio-cultural diversity that characterizes humanity, for its complex ways of thinking and for its symbiotic relationship strategies with some components of the natural base, since it provides different perspectives of the relationship between people-nature (animist worldview) different from the hegemonic conventional worldview (positivist). However, the similarities between global environmental issues and those of the Amazon region with those of the Mexican tropics open the opportunity to relate diverse biomimetic experiences in Latin America, Europe and the world.

Mexico is located at the northern limit of the American tropics, is the country with the largest number of Spanish speakers, as well as the seventh most linguistically diverse country in the world. The current Mexican territory was the scene of the Olmec and part of the Mayan cultures. The two most important civilizations of pre-Columbian America in Mesoamerica. At present, this sociobiogeographic space has a base of indigenous peoples that give us a multicultural trait. It is also one of the countries with the greatest diversity of climates in the world, considered one of the 17 megadiverse countries on the planet, with 12% of the world's biodiversity and home to more than 12 thousand endemic species. Mexico ranks first in reptile biodiversity with 733 known species, second in mammals with 448 species, fourth in amphibians with 290 species, and fourth in flora with 26 thousand species.

The Mexican territory is the second in the world in terms of ecosystems and the fourth in terms of total species. Approximately 2 thousand 500 species are protected by local legislation due to their endangered status. Mexico is currently experiencing accelerated processes of global crisis, both

environmental and social. On one side, the loss of biodiversity and habitat, on the other, job insecurity, high migration, violence never seen before, just to mention a few. Field research has renewed questions about the role of rural subjects, their identities, their displacement strategies, their productive systems, their forms of resistance to megaprojects, the persistence of indigenous cultural practices, among others.

Faced with the aforementioned problems in Mexico and most of the world's societies, the III Symposium intends to show the forms, practices and strategies of subjects and organizations in the face of contemporary biomimetic processes and bioinspiration. The symposium favors discussion, analysis, dialogue and exchange of ideas and experiences among academics, students, entrepreneurs, businessmen, artists, members of social organizations interested in learning and sharing the experiences of Biomimicry, in order to promote and disseminate critical, complex and dialectical thinking which must be critical and proactive in order to the processes and dynamics of inter-institutional and multidisciplinary research responsible, far-reaching and the search for solutions in a strategy of mutual support, inclusive and gender equity.

WELCOME TO XALAPA!

**RI<sup>3</sup> Biomimesis**  
team

**The complete program is available at**

[www.redinternacionalbiomimesis.org/simposio-xalapa-ri3/](http://www.redinternacionalbiomimesis.org/simposio-xalapa-ri3/)

**More info at** [simposio.xalapa@redinternacionalbiomimesis.org](mailto:simposio.xalapa@redinternacionalbiomimesis.org)

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