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Biomaterials and Nanomaterials

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Biomaterials & Architecture: A Possible Future

The *Zeitgeist* of the 21st century, and the signs of our time, deserve due attention from Engineering and Architecture. At the moment in which the human being has begun to be aware of the appearance of the so-called Anthropocene, then considerations and actions that are radically different from how things have been lived until now are required. And even more so when these have changed so much in such a short time, that there has hardly been time for a correct analysis and assimilation. Thus, while the Modern Movement of the 20th century worked to design “from the spoon to the city”, we, the inhabitants of the 21st century, can already transcend that work only on the surface of things, as it has been doing for millennia: “exploring advanced concepts and frameworks for better living”. Now, with the current technological possibilities, it is time to design “from DNA to planet”. From the cell and the bit to the entire Solar System, passing through all the intermediate scales. In this speech then some of our multiscale and transdisciplinary projects and works are shown, “from DNA to the planet”, presenting some of the most unique milestones reached, doors to unusual frontiers of knowledge in engineering and architecture, with the hope of having served to expand our perspectives, fields of action and horizons, for the

benefit of our planet and of all humanity.

Speaker Biography

Alberto T. Estévez, architect, with a professional office of architecture and design in Barcelona since 1983. Chairman-professor, founder and first director of ESARQ, the School of Architecture of UIC Barcelona (Universitat Internacional de Catalunya). Founder and first director of UIC Architecture PhD and Masters. Director of iBAG-UIC Barcelona (Institute for BioDigital Architecture & Genetics), that includes the Genetic Architectures Research Group & Office, and the Master's Degree in Biodigital Architecture. He has written more than 200 publications, participating in a large number of exhibitions, and invited lectures around the world, presenting his ideas, projects and works.

Yomna K. Abdallah, architect, assistant professor of ESARQ, the School of Architecture of UIC Barcelona (Universitat Internacional de Catalunya). Deputy Director of iBAG-UIC Barcelona (Institute for BioDigital Architecture & Genetics), that includes the Genetic Architectures Research Group & Office, and the Master's Degree in Biodigital Architecture. She is a Member of Bioengineering Institute of Technology at UIC. She is also a lecturer at Helwan University, Egypt, Faculty of Applied Arts, and led multidisciplinary research projects in numerous universities. While receiving multiple grants, funds and fellowships, and having numerous published papers in indexed journals and editorials.

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