B·DEBATE International Center for Scientific Debate BARCELONA

ICN Institut Català de Nanotecnologia

ibb Institut de Biotecnologia i de Biomedicina

JAUME VECIANA

SPEAKER AT:

NANOTECHNOLOGIES IN HEALTH.

CURRENT CHALLENGES AND FUTURE PROSPECTS

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Jaume Veciana obtained his degree in Chemistry in 1973 from the University of Barcelona and four years later a Ph.D. from the same university. After a postdoctoral stash at John Hopkins University and upon returning to Barcelona, he became a group leader at the CSIC in 1985, where he also holds a Research Professor chair since 1996. Dr. Veciana has published over 260 original articles and during the last decade has been one of the most cited Spanish scientists, specially in the Chemistry area. He is member of several international committees, including the International Advisory Committee and the Technical Committee of Materials, as well as from the American Chemical Society. He has also received several awards, including the 2005 Science Award from DuPont, or the Research Award from the Spanish Chemistry Society (2004) among others. Furthermore, he holds over 15 patents and his group has received international recognition for its translational research results and entrepreneur activities. His main research lines are within the fields of molecular nanoscience and organic functional materials. The multidisciplinary research carried out by his group is aimed at the self-assembly, nanostructuring and processing of functional (bio- and electro-active) molecules as crystals, particles, vesicles, and structured or self-assembled monolayers on various substrates showing non-conventional chemical, physical and biological properties. We use several methodologies for such a processing but a special emphasis is made with supercritical fluids. The resulting molecular organizations/systems are studied and used in the fields of molecular and large-area electronics, molecular magnetism, nanomedicine and biomaterials as well as for environmental applications.