Prof Redouane Borsali, is a Soft Matter Polymer and colloid Physico-Chemist. He is a CNRS Director of Research (Exceptional Class) and the Group Leader of "Self-Assembly of Glycopolymers" at CERMAV, a CNRS Laboratory at Univ Grenoble Alpes, Grenoble, France.

He is, since 2012, the Director of PolyNat Carnot Institute gathering 8 Laboratories and Centres of Research in Grenoble (400 persons) working synergistically on the Design of Innovative and Functional Bio-Sourced Materials and since 2021, Prof. R. Borsali is the co-director of "Green Material Institute" IRP CNRS-UGA-NTU Laboratory at Taipei, Taiwan.

R. Borsali received his bachelor degree in 1983 in Physics from Tlemcen University (Algeria), and then moved to Louis Pasteur University, Strasbourg (France) in 1984 to complete his Master in Polymer sciences. R. Borsali completed his PhD in Physics of Polymer Sciences at the University of Louis Pasteur, at the Institute Charles Sadron (ex-CRM), Strasbourg (France) in 1988. After a 2-year postdoctoral position in the Max-Planck-Institute for Polymer research (Mainz, Germany), he joined the CNRS (France) as a confirmed researcher (CERMAV-Grenoble) in 1990; In 1995, he spent 1 year at IBM research center of Almaden, San José, California, USA and 2 years at Stanford University (Chemistry Department), California, USA as a visiting scientist and was promoted a CNRS Research Director in 1998.

In 2000, he moved to Bordeaux University to build up a polymer science group at LCPO and in 2007 he returned to Grenoble to be the Director of the CERMAV (125 persons), a CNRS Glycosciences Institute and built up the Self-Assembly of Glycopolymers group (20 persons). He has published more than 300 peer-reviewed papers in international journals, invited to more than 100 International Conferences, co-edited/co-authored 5 books and organized more than 20 International Meetings on Soft Matter Science -polymers and colloids. Prof. Borsali is a member of the Editorial Boards of international peer reviewed international journals including: Nanomaterial, Chemosensors, and Materials Research**.**

Important breakthrough has been achieved by Prof. R. Borsali that led to the highest resolution ever reached to date (5 nm features) in nanostructured thin films using carbohydrate-based block copolymer systems. His recent contributions have significantly impacted this highly international competitive field of research and is strongly interacting with leading international groups through collaborative projects including the coordination of a European Project "GREENANOFILMS" involving 10 European Partners. His recent international projects include countries in Europe, Japan, Taiwan, Brazil and USA.

For all those achievements, Prof. R. Borsali was awarded:

• **in 2020,** the prestigious international award of the Japan Society of Polymer for his major contribution of "Self-Assembly of carbohydrate-based block copolymer systems: Nanoparticles, Thin Films, Smart Surfaces and Devices"

• **in 2018,** the Scientific Grand Prize France-Taiwan–Awards from the Academy of Science, Paris, France. For groundbreaking contributions in the conception and development of new class of carbohydrate-based block copolymers and their self-assembly in thin films at sub_10nm scale for microelectronic applications (memory devices) as well as the of new glyconanoparticles (with mosaic shapes and sizes) for various applications (cosmetics, biomedical,…).

• **in 2017**, "Stars of Europe" ("Etoiles de l'Europe")- Award in Research and Innovation given by the Ministry of Education and Research for the European "Greenanofilms"– Paris- (France).