

## FRANK BOURY



**Prof. Frank Boury**, 55 years old, PharmD, obtained his PhD degree at the University of Paris XI in 1995 awarded by a fellowship from GTRV (Thematic group of research on vectors) and by APGI (Industrial pharmaceutical technologies association). He exerts his professional activity at the Engineering School Polytech Angers (University of Angers) where he teaches formulation sciences and biophysics. From 2008, he is the vice-director of the doctoral school Biology-Health Nantes-Angers and from 2016 the vice-director of the doctoral school Biologie-Health University "Bretagne Loire" (UBL). From 2012, he is the coordinator of the Erasmus Mundus Joint Doctorate European Doctorate in Nanomedicine and Pharmaceutical Innovation "[NanoFar](#)" (6 partners, 6M€, 47 international PhD students involved). Between 2013 and 2017, Frank Boury was also Chair of the WG « education&training » of the European Technology Platform of Nanomedicine ([ETPN](#)) and member of the ExBo of ETPN. Since 2015, Frank Boury is also member of the Advisory Board of the regional [BIOREGATE](#) programme and chair of the "education&training" working group.

His research activity is carried out in the [INSERM team GLIAD](#) (INSERM/CNRS U1232 CRCINA, Center of Research in Cancer and Immunology Nantes-Angers).

He is author of more than 100 scientific publications and more than 100 papers presented at international conferences and summer schools including around 30 invited talks. He organized 8 international summer schools in the field of nanomedicine in collaboration with many academic and industrial partners. He is particularly interested by Supercritical Fluid Technologies (SCF) and developed "green" nano-micromedicine platforms aiming the controlled release of proteins and fragile molecules for cancer therapy and regenerative medicine.

### **Contact**

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### **Most significant publications:**

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95. Lajous, H., Riva, R., Lelièvre, B., Tétaud, C., Avril, S., Hindré, F., Boury, F., Jérôme, C., Lecomte, P., Garcion, E., Hybrid Gd3+/cisplatin cross-linked polymer nanoparticles enhance platinum accumulation and formation of DNA adducts in glioblastoma cell lines, *Biomaterials Science* (2018) 6 (9), pp. 2386-2409.
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100. Myolisi Ndumiso, Nela Buchtová, Lizex Husselmann, Gadija Mohamed, Ashwil Klein, Marique Aucamp, David Canevet, Sarah D'Souza, Retsepile E. Maphasa, Frank Boury, Admire Dube, Comparative whole corona fingerprinting and protein adsorption thermodynamics of PLGA and PCL nanoparticles in human serum, *Colloids and Surfaces B: Biointerfaces*, 188, (2020), 110816
101. Mathie Najberg, Muhammad Haji Mansor, Théodore Taillé, Céline Bouré, Rodolfo Molina-Peña, Frank Boury, José Luis Cenís, Emmanuel Garcion, Carmen Alvarez-Lorenzo, Aerogel sponges of silk fibroin, hyaluronic acid and heparin for soft tissue engineering: Composition-properties relationship, *Carbohydrate Polymers*, 237, (2020), 116107
102. Oddone Natalia, Boury Frank, Garcion Emmanuel, Grabrucker Andreas M., Martinez M. Carmen, Da Ros Federica, Janaszewska Anna, Forni Flavio, Vandelli Maria Angela, Tosi Giovanni, Ruozzi Barbara, Duskey Jason T., Synthesis, Characterization, and In Vitro Studies of a Reactive Oxygen Species (ROS)-Responsive Methoxy Polyethylene Glycol-Thioketal-Melphalan Prodrug for Glioblastoma Treatment *Frontiers in Pharmacology*, 11 (2020), 574
103. Ugur D, Sottile V, Montero-Menei CN, Boury F, Zelzer M. Relating polymeric microparticle formulation to prevalence or distribution of fibronectin and poly-d-lysine to support mesenchymal stem cell growth. *Biointerphases*, 15, (2020), 041008.