

Professor Nadine MILLOT, PhD



Name
Date of birth

Nadine Millot
12 January 1973
French, 3 children

69 peer reviewed publications

200 communications worldwide (30 invited conferences in the last five years)

H-index: 23 - 1160 citations in the ISI Web of Knowledge, 1 international pattern, 2 book chapters (Nanomedicine, One Central Press, UK, 2014 & Unraveling the Safety Profile of Nanoscale Particles and Materials, InTech - Open Science, 2018)

1 educational book ("Cristallographie Géométrique", Ed. Lavoisier, Paris, 2014)

Students supervision: 6 Post-docs, 3 research engineers, 16 PhDs students, 35 graduates

Present position

Since 2006

Head of the research group "(Bio)Hybrid nanoparticles and nanostructures" in the Nanoscience Department of ICB laboratory. This team gained know-how in the field of synthesis and characterization of nanoparticles, particularly SPIONs (Superparamagnetic Iron Oxide Nanoparticles) used as new bimodal contrast agents (MRI/PET, MRI/SPECT, MRI/OI). The team is also specialized in the nanovectorisation of active molecules through titanate nanotubes (transfection agents and vectors of docetaxel).

Since 2009

Full Professor, University of Burgundy (UB), Dijon, France.

Since 2012

Principal investigator and founder of "Bourgogne-Nanocare" platform, Satt Grand Est (Welience), in collaboration with INSERM UMR1231 and BioPerovIL lab: cytotoxicity assays, genotoxicity assays, DCFDA cellular ROS detection assay, ecotoxicity assays (Zebrafish), biodistribution studies.

Scientific Career History, Education, Awards

2005

"Habilitation" to supervise academic research in physico-chemistry (UB, Dijon, France)

Sept. 99 – Aug. 09

Assistant Professor, LRRS, UMR 5613 CNRS, UB, Dijon, France

1998-1999

Post-doc researcher, INSA de Lyon (Prof. C. Esnouf). "TEM on different phases of concretes"

1998

European Ceramic Society award (Brighton, UK)

French Ceramic Society award (Paris, France)

JECH award (Paris, France, French congress on Heterogeneous Kinetic)

1995-1998

PhD Graduation in physico-chemistry (UB, Dijon, France)

"Synthesis and properties of nanometric titanium ferrites" (Dir. Prof. P. Perriat)

1995

Both Engineer and Master graduated (ESIREM: major of promotion, UB, Dijon, France)

Important professional Memberships

Since 2018

Member of the steering committee of the [C'Nano](#)

Since 2018

President of the selection committee for Chemistry of the University of Burgundy

Since 2015

Member of the [BFCare](#) cluster

Since 2010

Expert of the ANR agency, of the F.R.S.-FNRS (Belgium) and of several universities (Sorbonne)

Responsible of the "Nanobio" thematic in 3MIM and IMAPPI projects

Responsible of an agreement with NVH Medicinal firm

Relevant publications of the last three years

1. "Elaboration of transresveratrol derivative-loaded superparamagnetic iron oxide nanoparticles for glioma treatment", F. Sallem, D. Vervandier-Fasseur, T. Nury, L. Maurizi, J. Boudon, G. Lizard, N. Millot, **Nanomaterials** 9, 287 (20 pages) (2019)
2. "Cellular interactions of functionalized superparamagnetic iron oxide nanoparticles on oligodendrocytes without detrimental side effects: cell death induction, oxidative stress and inflammation", S. Sruthi, L. Maurizi, T. Nury, F. Sallem, J. Boudon, J. M. Riedinger, N. Millot, F. Bouyer, G. Lizard, **Colloids and Surfaces B** 170, 454-462 (2018)
3. "Taxane-grafted metal-oxide nanoparticles as a new theranostic tool against cancer: the promising example of docetaxel-functionalized titanate nanotubes in preclinical development on prostate tumors", A. Loiseau, J. Boudon, C. Mirjolet, G. Créhange, N. Millot, **Adv. Healthcare Mater.** 6 (16), 1700245 (2017)