

**Short CV:**

Dulce Papy-Garcia (DPG) is 1st class Professor of Biochemistry and Glycosciences at the University Paris Est Créteil and current Director of the French Research Unit “Glycobiology Cell and Tissue Repair and Regeneration” (Gly-CRRET). After graduate as Pharmacist at UMSNH in Mexico, she moved to Japan and obtained master and PhD in Glycosciences and in Pharmaceutical Sciences at Tokushima Bunri University. She was permanently established in France by becoming Associated-Professor and then Full Professor at the University Paris Est Créteil. DPG is specialist in the chemistry, biochemistry, and physiology of proteoglycans, and particularly heparan sulfate proteoglycans (HSPG) and their biosynthetic machinery, and in the study of their implications in the molecular mechanisms leading to pathology. In her primary work, DPG implemented biomimetic strategies and methods assuring the robust synthesis and structural characterization of “Heparan sulfate mimetics” (HM), now in the clinical marked of regenerative medicine under the concept ‘Matrix Therapy’. Currently, DPG and her team work to demonstrate the key role of HSPG in the mechanisms leading to tissue degeneration in pathologies that represent major societal challenges, particularly neurodegenerative diseases. By centrally integrating the glycanic component of cells and tissues in the complex network of macromolecules classically considered in the mechanisms leading to disease (genes, transcripts, proteins, and lipids), the DPG team is triggering new challenging concepts in neurodegeneration while providing new diagnostic and therapeutic strategies for yet untreated pathologies, as Alzheimer’s Disease. DPG is coordinator of European (H2020-FET-OPEN) and National (ANR, FRM, etc) programs in the domain of Glyco-Neurodisease and author of more than 90 scientific publications.