



About Prof. Nadia B. Jessel

Dr. Nadia Benkirane-Jessel is the Leader of the “Active Biomaterials and Tissue Engineering” team at INSERM UMR 977, Strasbourg. INSERM U977 has 48 people and possesses an important knowledge in chemistry and physico-chemistry of macromolecules. It is also one of the world leader groups in the polyelectrolyte multilayer research domain. This team is since about seven years largely involved in the modification of biomaterial surfaces by means of “bio” functionalized polyelectrolyte films. This team has been granted ERT Status (technological research team) on 2006 and now included 8 researchers/clinicians 3 technicians and Engineers and 7 post-doctoral, doctoral, and master’s.

Dr. Nadia Jessel received her Ph.D. from University Louis Pasteur, ULP, Strasbourg, France in 1994 for the work on Development of pseudopeptides as synthetic vaccines. Dr. Jessel (Benkirane) then held a postdoctoral position in collaboration with the Institut Pasteur, Paris, France, working on Immunotherapy HIV, and another postdoctoral position on the application of modified peptides as vaccines against FMDV in collaboration with Green port, NY. She joined the Unité INSERM U 595, now U977 in 2002 as associate Professor, and received the diploma to direct the research (HDR) in 2004. Dr. Jessel got the permanent position in the INSERM 977 laboratory in 2004 and now Research director. She possesses expertise in diverse fields of molecular and cellular biology, immunochemistry, tissue engineering and biomedical engineering. In the last 7 years, she focused her research on the bio-functionalization of multilayered polyelectrolyte architectures with emphasis on the use of these architectures to induce specific cellular responses and gain control over cell proliferation and differentiation.

Dr. Jessel is a co-author of 50 peer-reviewed publications in high impact factor journals (Proc. Nat. Acad. Sci. USA; Nanoletters; Biomaterials; Adv. Mater.; Adv. Funct. Mater; Small...), chapters reviews and 3 international patents and more than 100 communications and conferences, she is a regular referee for a number of scientific journals (Adv. Mater.; Adv. Funct. Mater; Small, Biomaterials, Macromolecules etc.). The field of polyelectrolyte multilayers is one of the most studied now in material science. Our group have published more than one hundred articles in high-ranking journals in the domain of polyelectrolyte multilayers and with sum of the times cited exceeding 3000 times.

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