

DC9 – Job Vacancy

Position Description	
Reference	DC9
Title of the project	3D pathological models of vascularized glioblastoma tumor microenvironments via bioprinting
Recruiting Institutions	(1°) University of Aveiro (Portugal, 9 months) and (2°) University of the Basque Country / POLYMAT (Spain, 24 months)
Secondment	Metatissue (Portugal, 3 months)
Expected Start Date (estimated)	Latest March, if possible, January

Job Offer Description	
Keywords	3D Cell Culture, Glioblastoma Multiforme, Biomaterials, Biofabrication
Project description	The project is focused on the development of in vitro models relevant for the treatment of glioblastoma (GBM). The Early-Stage Researcher (ESR) will be involved in the (bio)fabrication of multi-cellular decellularized matrix hydrogel tumor models to screen nanotherapeutics for GBM. Initially the ESR will screen over conditions for the formation of relevant glioblastoma tumors on decellularised ECM environments. On a second stage. Multi-cellular systems reflecting the tumor immune microenvironment will be developed by 3D bioprinting including also vascularization.
Objectives	To create 3D bioprinted models of the pathologic brain with vascularized GBM microenvironments, containing tumor-associated macrophages (TAMs) to validate various drug delivery systems.
Expected Results	Development of a 3D model of the pathologic glioblastoma microenvironment and the BBB demonstrating features of the native tissues. Validation of the 3D model and their potential as drug screening platform.
Supervisors	Dr. Sandra Camarero-Espinhosa (University of the Basque Country / POLYMAT) and Dr. Vítor Gaspar (University of Aveiro) and Professor João F. Mano (University of Aveiro)
Work in the secondment	A secondment at Metatissue is envisioned where the ESR will investigate different hydrogel systems.

Vacancy requirements	
Qualifications	Candidates with a background in bioengineering, biomedical engineering, biotechnology, materials science, and cell biology

	with interface with biomaterials will be considered for evaluation. Solid background in bioengineering/biomaterials and/or biofabrication will be valued. Knowledge on cancer models will be a plus. Having a Master degree or equivalent diploma, and not having a doctoral degree.
Requirements	MSCA-recruiting rules are applied. Not having resided in Portugal for more than 12 months in the 3 years immediately before the recruitment date, and not having carried out their main activity (work, studies, etc.) in Portugal during this period.
Languages	Excellent command of written and spoken English is a must.
Skills	Ability for research management, dissemination, communication with colleagues and supervisors, strong teamwork spirit, creativity, problem solving and attention to safety.
Experience	Research experience in the academic or industrial sector will be considered.

Job Details	
Salary	Salary and benefits will follow the rules of the MSCA-DN, as foreseen in the Marie Skłodowska-Curie Actions Work Programme. Gross salary per month in Spain: 3104,20€ (3400€ per month*CCC Spain (91,3%)) + 600 € mobility allowance Gross salary per month in Portugal: 2.866,20€ (3400€ per month*CCC Spain (84,3%)) + 600 € mobility allowance *CCC (Country Correction Coefficient)
Other benefits	Other benefits: Gross family allowance: 660€ per month - if applicable* *The family allowance will also be made available to researchers whose parental status changes during their project.
Duration	36 months
Type of contract	Full time
Place of work	POLYMAT: Donostia-San Sebastián, Spain (24 months) <i>University of Aveiro: Aveiro, Portugal (12 months)</i> The prospective Ph.D. will be, upon successful accomplishment of their course of studies, awarded with a double degree by the University of the Basque Country and the University of Aveiro