

### DC8 – Job Vacancy

<b>Position Description</b>	
<b>Reference</b>	DC8
<b>Title of the project</b>	BBB model based on perfusable flexible tubes to tailor the biophysical and chemical environment for drug delivery
<b>Recruiting Institutions</b>	(1 <sup>o</sup> ) University of Aveiro (Portugal, 24 months) and (2 <sup>o</sup> ) Italian Institute of Technology (Italy, 12 months)
<b>Secondment</b>	BeonChip
<b>Expected Start Date (estimated)</b>	April 2023

<b>Job Offer Description</b>	
<b>Keywords</b>	Glioblastoma, BBB models, in vitro models, all-aqueous processing
<b>Project description</b>	The project is focused on the development of in vitro models relevant for the treatment of glioblastoma. The Early-Stage Researcher will be involved in the development of flexible and perfusable tubular models of the blood-brain barrier (BBB) capable to withstand pathophysiological-mimetic biochemical and biophysical cues.
<b>Objectives</b>	<ul style="list-style-type: none"> <li>• O1: Fabrication of perfusable tubes</li> <li>• O2: Endothelization</li> <li>• O3: Establishment of co-culture environments</li> <li>• O4: Adaptation of biophysical cues</li> <li>• O5: Extrapolation of organ-on-a-chip models</li> </ul>
<b>Expected Results</b>	A representative BBB model will be established to study the permeation ability of nanoparticles.
<b>Supervisors</b>	Dr. Mariana Oliveira and Dr. João Mano (University of Aveiro), and Dr. Gianni Ciofani and Dr. Attilio Marino (Italian Institute of Technology)
<b>Work in the secondment</b>	A period of 2 months at the company Beonchip to adapt the developed model to a functional microfluidics unit is predicted. Candidates with a background in bioengineering, biomedical engineering, biotechnology, materials science, and cell biology with interface with biomaterials will be considered for evaluation.

<b>Vacancy requirements</b>	
<b>Qualifications</b>	Candidates with a background in bioengineering, biomedical engineering, biotechnology, materials science, and cell biology with interface with biomaterials will be considered for evaluation.



THERATOOLS



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	Having a Master degree or equivalent diploma, and not having a doctoral degree.
<b>Requirements</b>	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 Spain during this period.
<b>Languages</b>	Excellent command of written and spoken English is a must
<b>Skills</b>	Ability for research management, dissemination, communication with colleagues and supervisors, strong teamwork spirit, creativity, problem solving and attention to safety
<b>Experience</b>	Research experience in the academic or industrial sector will be considered

<b>Job Details</b>	
<b>Salary</b>	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 Italy: 3.311,60€ (3400€ per month*CCC Spain (97,4%)) + 600 € mobility allowance Gross salary per month in Portugal: 2.866,20€ (3400€ per month*CCC Portugal (84,3%)) + 600 € mobility allowance  *CCC (Country Correction Coefficient)
<b>Other benefits</b>	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.
<b>Duration</b>	36 months
<b>Type of contract</b>	Full time
<b>Place of work</b>	<i>University of Aveiro: Aveiro, Portugal (24 months)</i> <i>Italian Institute of Technology: Pisa, Italy (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 Aveiro and Scuola Superiore Sant'Anna di Pisa