

Título del Proyecto	<b>"Exploitation of extracellular vesicles for precision diagnostics of prostate cancer" PROSCANEXO PROJECT</b>
Nº de expediente asignado	TRANSCAN JTC2016-140 // AC17/00050
Abstract	<p>In Europe, prostate cancer (PCa) is the most common male cancer affecting approximately 400,000 men annually. The development of sensitive and versatile non-invasive biomarker assays for differentiating between benign, indolent PCa and fast progressing PCa requiring aggressive treatment, represents the greatest unmet clinical need in the management of PCa. PROSCANEXO is based on the hypothesis that the extracellular vesicles (EVs) count and specific PCa-derived EV subpopulations are increased in biofluids of PCa patients, and that their RNA and protein content is specifically changed.</p> <p>The overall aim of PROSCANEXO is to establish technically and clinically validated non-invasive tools for PCa diagnosis and prognosis based on the analysis of EV counts and molecular cargo in patients' biofluids. This will be achieved through: (i) implementing a highly sensitive thermal transduction biosensor for the quantification of total and PCa-derived EVs in patients' biofluids using a collection of specific probes for capturing EVs and profiling of protein kinase (PK) activity; (ii) employing assays for the quantification of RNA biomarkers in EVs isolated from biofluids; (iii) establishing a centralized PCa database and integration of the EV assays with current standard-of-care analyses for PCa early detection and</p>

	prognosis. The assays will be validated using blood and urine samples of PCa patients selected from large, retrospective longitudinal PCa cohorts established by the project partners or available at their institutions.
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	 <p> <b>GOBIERNO DE ESPAÑA</b>  <b>MINISTERIO DE CIENCIA, INNOVACIÓN Y UNIVERSIDADES</b>  <b>Instituto de Salud Carlos III</b> </p> <p> <b>UNIÓN EUROPEA</b>  Fondo Europeo de Desarrollo Regional </p> <p><i>"Una manera de hacer Europa"</i></p>



Enlaces:

<http://www.transcanfp7.eu/index.php/abstract/proscanexo.html>