

Título del Proyecto	<b>“Nanoconductance of electron transfer proteins of the respiratory chain. Direct measurement at the single molecular level and therapeutic regulation in cancer stem cells”. NanoET-leukemia</b>
Nº de expediente asignado	CTQ2015-66194-R
Abstract	The aim of nanoET-Leukemia project is to identify the molecular parameters affecting the electron transfer between redox partners of the human respiratory chain. The main objective is the direct measurement of the electron transfer process at the single molecule level using cutting-edge nanotechnologies. Different physiological parameters selected as variables will be evaluated and a correlation model with in vitro experiments targeting patient leukemia stem cells (LSCs) will be established. Such a model would contribute to the identification of the most relevant parameters involved in the effective inhibition of the mitochondrial respiratory chain, to be considered for the future design of new anti-cancer drugs, less toxic and more effective against cancer stem cells (CSCs) of recurrent leukemia.
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