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| Título del Proyecto | Molecular links between diabetes and neurodegenerative disorders |
| Nº de expediente asignado | PIE14/00061 |
| Abstract | <p>Alzheimer's disease, Parkinson's disease, sporadic inclusion body myositis, Lafora disease, and Gaucher disease are age-related degenerative diseases increasing in worldwide prevalence due to population ageing, improved diagnostic and changes in lifestyle. Substantial epidemiological evidence and data from animal models show comorbidity among these diseases and type-2 diabetes. However, the underlying biological mechanisms that link the development of (neuro)degeneration and metabolic disturbances are not fully understood. Aberrant protein processing and accumulation in pancreatic islets, brain cells and/or skeletal muscle, abnormalities in insulin signaling, deregulated glucose metabolism, mitochondrial dysfunction and increased oxidative stress, the formation of advanced glycation end products, and the activation of inflammatory pathways are features common to most of these diseases. In this proposal, we have put together a consortium of research groups with leading expertise in relevant clinical, basic, and applied aspects of diabetes and highly-prevalent and rare neurodegenerative diseases, as well as in the development of advanced platforms for human disease modeling, early diagnosis and treatment. Our combined effort will allow the systematic interrogation of genuinely-human disease models to identify interacting pathogenic mechanisms linking diabetes and neurodegeneration, which will be further used as targets for novel therapeutic strategies and early diagnosis devices.</p> |
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| Importe de la ayuda | 660.000€ |

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| <p>Fechas de ejecución del proyecto</p> | <p>01/01/2015-31/12/2018</p> |
| | <p>Estas ayudas están financiadas por el Instituto de Salud Carlos III y cofinanciadas por el FEDER, Programa Operativo Crecimiento Inteligente 2014-2020 "Una manera de hacer Europa"</p> |
| |  <p>The image contains several logos and text elements. At the top left is the flag of the European Union. Next to it is the coat of arms of Spain. To the right of the coat of arms is the text "GOBIERNO DE ESPAÑA". Further right is the text "MINISTERIO DE ECONOMÍA, INDUSTRIA Y COMPETITIVIDAD". To the right of that is the logo of the Instituto de Salud Carlos III, which consists of the letters "ISC" in a stylized blue font, with "Instituto de Salud Carlos III" written below it. Below the Spanish government logos is the flag of the European Union. To the right of the flag is the text "UNIÓN EUROPEA" in bold, and "Fondo Europeo de Desarrollo Regional" below it. At the bottom center is the slogan "<i>Una manera de hacer Europa</i>".</p> |
| <p>Enlaces:</p> | <p>http://iqac.csic.es/nb4d/en/molecular_links_between_diabetes_%26_neurodegenerative_diseases/128 http://www.ciberisciii.es/areas-tematicas/grupo-de-investigacion?id=3618</p> |

