

HORIZON 2020
MARIE SKLODOWSKA-CURIE ACTIONS
INDIVIDUAL FELLOWSHIP

Organization Name/ Department/ Website	Department of Applied Biomedical Science Faculty of Health Sciences University of Malta
Organization Short Name	UM
Organization Type	<input checked="" type="checkbox"/> Academic <input type="checkbox"/> Non-academic
Research Fields	<input type="checkbox"/> Chemistry (CHE) <input type="checkbox"/> Social Sciences and Humanities (SOC) <input type="checkbox"/> Economic Sciences (ECO) <input type="checkbox"/> Information Science and Engineering (ENG) <input type="checkbox"/> Environment and Geosciences (ENV) <input checked="" type="checkbox"/> Life Sciences (LIF) <input type="checkbox"/> Mathematics (MAT) <input type="checkbox"/> Physics (PHY)
Sub-Fields/ Keywords	Genomics of Rare Diseases
Short Description of the Organization/ Department	<p>At the UM there are over 11,000 students including over 750 foreign/exchange students from 82 different countries, following full-time or part-time degree and diploma courses. The University is geared towards the infrastructural and industrial needs of the country so as to provide expertise in crucial fields. Well over 3,000 students graduate in various disciplines annually. The degree courses at the University are designed to produce highly qualified professionals, with experience of research, who will play key roles in industry, commerce and public affairs in general.</p>

	<p>The University has been involved as coordinator and partner in numerous EU-funded projects under various Programmes including FP5/6/7, Lifelong Learning Programme, Culture 2000, Tempus and various other international and regional programmes and initiatives. The University is also represented in a number of European and international University networks and groups.</p> <p>The Department of Applied Biomedical Science within the Faculty of Health Sciences is responsible for undergraduate teaching leading to a B.Sc. (Hons) in Applied Biomedical Science (previously Medical Laboratory Science) and post-graduate teaching leading to an MSc (by Research) in Applied Biomedical Science. The Department is currently expanding its doctoral programme and has an active research programme, in areas which include: Genetics and Genomics of Osteoporosis, Inflammation, Atherosclerosis and Myocardial Infarction, Transcriptional Regulation and Control of Globin Gene Expression and High Throughput Sequencing of disorders common to the Maltese Islands. The Department of Applied Biomedical Science is also a founding member of the Centre for Molecular Medicine and BioBanking. The Centre brings together some 30 senior scientists from 3 Faculties of the University (8 departments) and the Department of Health and a similar number of younger researchers pursuing MSc, PhD and postdoctoral programmes. The Centre is a hub of research activities that in the main focus on the molecular mechanisms that give rise to disease.</p>
<p>Short Description of the Project idea (if foreseeable)</p>	<p>As part of the Malta Next Generation Sequencing Project a number of families with various different rare genetic conditions have been recruited and sequenced using exome sequencing, candidate gene approach or whole genome sequencing. Additional families will be recruited and sequenced and the data will be analysed to determine the genetic basis of the conditions. Conditions for which samples are already available Hirschprung disease, specific familial</p>

	phenotypes of speech language impairment, Joubert-like syndrome, familial thyroid cancer and thyroiditis. Where appropriate functional work using cell lines or model organisms will be carried out to confirm the causal role of identified genes.
Related Call	MSCA-IF-2018
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