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	☒Academic ☐Non-academic
Research Fields	☐ Chemistry (CHE) ☐ Social Sciences and Humanities (SOC) ☐ Economic Sciences (ECO) ☐ Information Science and Engineering (ENG) ☐ Environment and Geosciences (ENV) ☒ Life Sciences (LIF) ☐ Mathematics (MAT) ☐ Physics (PHY)
Sub-Fields/ Keywords	Genomics of Myocardial Infarction
Short Description of the Organization/ Department	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.

	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. 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.
Short Description of the Project idea **(if foreseeable)**	The Maltese Acute Myocardial Infarction (MAMI) Study includes data and samples from over 1000 research subjects consisting of cases with a first myocardial infarction (MI), controls and relatives of cases. The collection is highly phenotyped with haematological, biochemical, immunological, inflammation-related and physical measurements. Families with extreme phenotypes related to MI will be sequenced using next generation sequencing (exome or whole

	genome) to identify genetic variants and biological pathways that have strong effects on these phenotypes. Data is already available on some families with very low inflammatory expression and very high inflammatory expression. This data can now be analysed. Besides samples from the MAMI Study, clinicians may also refer additional families with relevant phenotypes such as familial hypercholesterolaemia.
Related Call	MSCA-IF-2018
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