

SHEET FOR PUBLIC SELECTION NOTICE UPON QUALIFICATIONS AND INTERVIEW FOR THE AWARD OF 1 RESEARCH GRANT (EX-ART 22 L 240/2010)

Annex No

Type of grant	RESEARCH GRANT LETTER b)
Department	Surgical Medical Sciences and Neurosciences
CUP	B53D23020290006
Grant amount (in compliance with the minimum set by MIUR ¹)	€ 19.457,00
Availability of budget and allocation grant costs, including employer charges	Project: 2268-2023-ML-PROFCMIUR_PC-PRIN2022_004
Duration (in months)	12
Renewable	si
Number of positions	1
Scientific Director	Prof. Franco Roviello
Scientific Disciplinary sector/s	BIO/13 applied biology
Competitive exam sector	05/F1 applied biology
Research field ²	LS - Life Sciences
Research project	2022H4ZSCL
Acronym for research project	none

¹ Indicate the total amount including the charges to be borne by the employer, and the gross amount to be paid.

² For the purpose of publication on the European portal, indicate one of the following fields: Agricultural sciences; Anthropology; Architecture; Arts; Astronomy; Biological sciences; Chemistry; Communication sciences; Computer science; Criminology; Cultural studies; Demography; economics; Educational sciences; Engineering; Environmental science; Ethics in Health sciences; Ethics in natural sciences; Ethics in physical sciences; Ethics in social sciences; Geography; History; Information science; Juridical sciences; Language sciences; Literature; Mathematics; Medical sciences; Neurosciences; Pharmacological sciences; Philosophy; Physics; Political sciences; Psychological sciences; Religious Sciences; Sociology; Technology; Other

Location(s) of the research activity	University of Siena, Department of surgical medical sciences and neurosciences University of Napoli Federico II, Department of Biology
Project title (ITA)	Organoidi tumorali come modello preclinico del cancro gastrico: l'anello mancante per la terapia mirata ed il trattamento personalizzato del cancro.
Project title (ENG)	Preclinical tumor organoid models in gastric cancer: the missing link for targeted therapy and personalized cancer treatment.
Description of the research project/topic	The main objectives of the project are: 1. The identification of the molecular mechanisms involved in the development of chemoresistance; 2. Improve patient prognosis by predicting response to NAC; 3. Test targeted therapeutic pathways that enable personalized medicine approaches. The experimental design will be performed according to the following main phases: 1. Evaluation of molecular alterations of GC patients in samples treated with NAC; 2. Generation and propagation of GC patient organoids; 3. Evaluation of the transcriptomic profile, methylation and cytotypic composition in the organoids and in the corresponding patient; 4. Evaluation of intrinsic or acquired biomarkers of NAC response; 5. Evaluation of transcriptomic and epigenetic profiles in organoids of GC patients treated with neoadjuvants in an unsupervised and supervised manner.
Activities entrusted to the research fellow (ITA)	<ul style="list-style-type: none"> • Generazione di linee di organoidi derivanti da pazienti con GC (GC-PDOs) • Propagazione e criopreservazione con finalità di archiviazione delle linee GC-PDOs • Preparazione dei campioni per l'analisi trascrittomica ed epigenetica, e per la validazione dei target molecolari. <p>Validazione dei potenziali <i>biomarkers</i> ottenuti dall'analisi dei campioni biotipici dei pazienti prima della NAC (GC-acPDOs).</p>
Activities entrusted to the research fellow (ENG)	<ul style="list-style-type: none"> • Generation of organoid lines from patients with GC (GC-PDOs) • GC-PDOs propagation and cryopreservation with the aim of storage

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DIPARTIMENTO DI SCIENZE MEDICHE, CHIRURGICHE E NEUROSCIENZE

	<ul style="list-style-type: none"> Samples preparation for transcriptomic and epigenetic analysis, and validation of molecular targets <p>Validation of potentials biomarkers obtained from the analysis of biopsy samples of patients before NAC (GC-acPDOs).</p>
Maximum number of evaluable publications	3
Access Requirement	Master's degree
Preferred qualification	Research doctorate or equivalent obtained abroad.
Additional qualifications and requirements ³ :	Knowledge of laboratory techniques in Cell Biology for the generation of three-dimensional cellular models derived from human tissues; knowledge of the main molecular biology techniques relating to the extraction and processing of nucleic acids and proteins from small quantities of tissues, gene expression analysis techniques, histological techniques for sample processing (from embedding to immunofluorescence investigations and /or immunohistochemistry), knowledge of the operating principles of confocal microscopes.

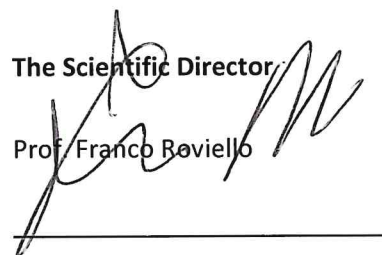
Siena, date of the digital signature

The Director of the Department

Prof. Francesco Dotta

The Scientific Director

Prof. Franco Beviello



³ For example (for guidance only): Possible foreign language (s) requested; Advanced level of written and spoken knowledge of one or more foreign languages; Work and/or training experience at public and/or private research facilities; Experiences in the international field

