

PERSONAL INFORMATION	MARTINA CAPPELLETTI
APPLIED FOR	INCARICO SVOLGIMENTO ATTIVITÀ DI RICERCA DI CATEGORIA A TIPOLOGIA I (ref. AR-A 2/2022)
CURRENT POSITION	PhD FELLOWSHIP IN EXPERIMENTAL AND CLINICAL HEPATO-GASTROENTEROLOGY AT “SAPIENZA, UNIVERSITÀ DI ROMA” (XXXVI cycle) (ITALY)
EDUCATION	MASTER'S DEGREE IN ENVIROMENTAL AND BIOMOLECULAR BIOLOGY

WORK EXPERIENCE

- June 2022 to August 2022 **INTERNSHIP AT THE LABORATORY OF THE DEPARTMENT OF BIOMEDICAL SCIENCES, UNIVERSITY OF THE STUDY OF PADUA, Padua (Italy)**
- Mitochondria extraction, and metabolic and morphological assays focused on the mitochondrial impairment investigation by the use of fluorescence microscopy (ROS detection, mitochondrial membrane potential and calcium concentration quantification), confocal microscopy (network and morphological mitochondria parameters evaluation), and Seahorse RT Cell Metabolic Analyzer (cells metabolic parameters evaluation);
 - *In-vitro* models for the study of inflammatory pathways by ELISA test;
 - Work with an *In-vivo* mouse models.
- October 2022 to today **PhD FELLOWSHIP AT “SAPIENZA, UNIVERSITÀ DI ROMA” (XXXVI cycle) (Italy)**
- Project Title: In-vitro and Ex-vivo oxidative stress modelling for personalized medicine of human chronic hepato-gastroenterology pathology;
 - Smooth muscle cells isolation from surgical specimen of human colon for *In-vitro* and *Ex-vivo* culture modelling;
 - Molecular analyses (RNA and mtDNA extraction and study by RT-PCR) and cellular biology analyses (cytofluorimetric analyses and functional studies of biological activity by image scanning microscopy);
 - Protein content evaluation by Western Blot.
- November 2019 to March 2020 **BIOLOGY TEACHER AT “RADIO ELETTRA SCHOOL”, Città di Castello (Italy)**
- Students preparation for the Socio-Sanitary Assistant abilitation exam.
- November 2018 to October 2019 **MASTER THESIS INTERNSHIP AT PRECLINICAL MICROBIOLOGY AND MOLECULAR BIOLOGY LABORATORIES OF GLAXO SMITH KLINE VACCINES (Gsk), Siena (Italy)**
- Development of a new bacterial vaccine based on the research of new antigens;
 - Setting of different cloning processes (PCR, PIPE, mutagenesis), bacterial manipulation transformations, nucleic acid extraction, solid and liquid growths, data analysis (DNA sequencing, consultation databases of protein and genomes), protein purification and colorimetric assays;
 - Use of confocal microscopy and cytofluorimeter for cells cytofluorimetric analyses;
 - Work in aseptic environment.
- September 2017 to September 2018 **COLLABORATION WITH SCIENTIFIC MUSEUM “P.O.S.T”, Perugia (Italy)**
- Scientific divulgation activities.

- September 2017 to December 2017 **INTERNSHIP AT VIROLOGY AND BROMATOLOGY LABORATORIES OF UNIVERSITY OF THE STUDY OF PERUGIA, Perugia (Italy)**
- Extraction of nucleic acid, PCR, RT-PCR, cell lines infection, ELISA and inhibition tests;
 - Extraction of fatty acid with Soxhlet and successive analyses by TLC, gas-chromatography and spectrophotometer.
- March 2017 to April 2017 **INTERNSHIP AT CLINICAL ANALYSIS LABORATORY “Galeno”, Perugia (Italy)**
- Clinical analysis like feces culture tests, urine, vaginal swabs and pharyngeal swabs, rapid tests based on antigen-antibody reaction, antibiograms, blood chemical-physical analysis.
- To 2012 from 2013 **INTERNSHIP AT HOSPITAL CYTOLOGY LABORATORY (USL2) AND REGIONAL AGENCY ENVIROMENT “ARPA”, Perugia (Italy)**
- Cytological screening for Papillomavirus infection- related cervical cancer by molecular (extraction and analyses of nucleic acid) and microscopic analysis;
 - Chemical and toxicology test on water samples.

EDUCATION AND TRAINING

- March 2022 **Introduction to biomedicine data analyses with R-Studio course**
“SAPIENZA”, UNIVERSITÁ DI ROMA, Italy
- July 2020 **PROFESSIONAL ABILITATION EXAM, BIOLOGIST**
UNIVERSITY OF PALERMO (ITALY)
- From 2017 to 2020 **MASTER’S DEGREE IN ENVIROMENTAL AND BIOMOLECULAR BIOLOGY, 108/110** 7 E.Q.F. level
UNIVERSITY OF PERUGIA (ITALY)
- From 2013 to 2017 **BACHELOR’S DEGREE IN BIOLOGICAL SCIENCE, 102/110** 6 E.Q.F. level
UNIVERSITY OF PERUGIA (ITALY)

PERSONAL SKILLS

Mother tongue Italian

Other language	COMPRESIONE		PARLATO		PRODUZIONE SCRITTA
	Ascolto	Lettura	Interazione	Produzione orale	
English	B2	B2	B2	B2	B2

Driving licence Italian Driving license, type B

ADDITIONAL INFORMATION

SCIENTIFIC PRODUCTIONS

Cappelletti M, Vona R, Gioia A, et al.: Parallelism in myogenic oxidative alterations between uncomplicated and complicated diverticular disease. United European Gastroenterol J (2022);10(8):66-67. (Oral communication UEG Congress 2022, Vienna).

Cappelletti M, Vona R, Gioia A, et al.: Oxidative muscle-driven alterations: parallelism between uncomplicated and complicated diverticular disease. Dig Liver Dis (2022); 54(S2): S63–S163. (Oral communication FISMAD Congress 2022, Rome).

Pallotta L, Vona R, Maselli M A, et al.: Oxidative imbalance and muscular alterations in diverticular disease. Dig Liver Dis. (2022); 54(9):1186-1194.

Vona R, Pallotta L, Cappelletti M, et al.: The Impact of Oxidative Stress in Human Pathology: Focus on Gastrointestinal Disorders. Antioxidants (Basel) (2021); 10(2):201.

PROPONENT PROJECT

2021: AVVIO ALLA RICERCA 2021, “SAPIENZA, UNIVERSITÀ DI ROMA” (Italy). Project Title: DEVELOPMENT OF DAMAGE MODELS FOR THE STUDY OF THE CONTRIBUTION OF OXIDATIVE STRESS IN HUMAN FIBROTIC HEPATO-GASTROINTESTINAL DISEASES WITH THE PURPOSE OF IDENTIFYING INNOVATIVE THERAPIES (Principal Investigator)

MEMBER PROJECTS

2021: UNIVERSITY GRANT 2021, “SAPIENZA, UNIVERSITÀ DI ROMA”, Italy. Project Title- MITOCHONDRIA INVOLVEMENT IN DIVERTICULAR DISEASE: A POSSIBLE GENDER-RELATED OXIDATIVE STRESS DISEASE (Participant)

2020: PRIN-RESEARCH PROJECTS OF RELEVANT NATIONAL INTEREST. Project Title- DEMO: Diseases modelling and early therapeutic tools in chronic cholangiopathies and cholangiocarcinoma (Participant)

SCIENTIFIC SOCIETY MEMBERSHIP

2022: MEMBER OF ITALIAN SOCIETY OF GASTROENTEROLOGY AND DIGESTIVE ENDOSCOPY, “SIGE”

Pubblicazione ai fini della Normativa in materia di Trasparenza ex D.Lgs 33/2013 e Trattamento dati personali

Il presente CV è oggetto di pubblicazione obbligatoria sul sito istituzionale della Società nella sezione “Società trasparente” ai sensi del D.Lgs. 33/2013;

Si autorizza quindi la pubblicazione del presente CV al fine di adempiere alle disposizioni in materia di trasparenza. Si autorizza il trattamento dei dati ai sensi del D. Lgs. 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali”.

Roma, 20/10/2022