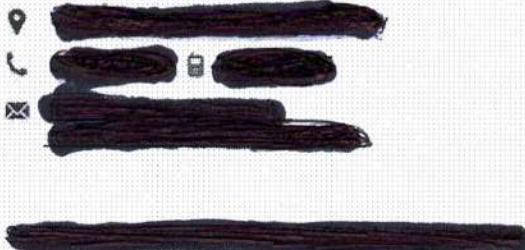


PERSONAL INFORMATION

**Federica Massa**

WORK EXPERIENCE

**From October 2017 –
March 2021****Ph.D. in Biosciences**

Università degli studi di Padova, PhD programme in Biosciences curriculum biochemistry and biotechnology.

Laboratory of Plant physiology and Molecular biology of plants.

Gained experience in:

- Physiological and molecular characterization of Italian rice varieties, focusing on salt-response;
- Maintenance and propagation of rice cultured cells;
- Production of transgenic plants and cultured cells, harbouring fluorescent probes;
- Advanced techniques of Microscopy: Imaging experiments *in vivo* on rice cells and roots seedlings;
- Analyses of gene expressions.

Supervisor: Prof. Fiorella Lo Schiavo

Co-Supervisor: Dr. Elide Formentin

**From February 2017 to
May 2017****Stage in Mass spectrometry**

Università degli studi di Napoli Federico II

Laboratory of Mass spectrometry, Chemical sciences department.

Gained experience in:

- Gas Chromatography Mass Spectrometry;
- Gas Chromatography Ms/Ms;
- Inductively coupled plasma mass spectrometry.

Supervisor: Prof. Angela Amoresano

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From May 2016
to May 2017

Advanced postgraduate course in Cytogenetics and Cytogenomics

Scuola di "Medicina e Chirurgia" - Laboratori di Medicina molecolare e Biotecnologie mediche - Università degli studi di Napoli "Federico II" - U.O.C. di Citogenetica – AOU Federico II, Napoli

Course topics:

- Organization of DNA in the eukaryotic chromosome;
- chromosomal aberrations;
- cell cultures management of pregnancy with malformative and / or genetic pathology;
- biochemical screening tests;
- invasive diagnostic methods (villocentesis, amniocentesis and cordocentesis) and non-invasive (NIPT);
- conventional karyotype analysis;
- applications of molecular techniques (FISH) and cytogenomics (array-CGH, BoBs) prescription of the correct genetic test;
- pre-test consulting; post-oncohematology genetic counseling and pre-implantation diagnosis

Supervisor: Prof. Lucio Nitsch

From May 2015 to
May 2016

Master Degree experimental thesis

Institute of Biosciences and Bioresources (IBBR) - CNR Naples (Via P. Castellino, 111)
Laboratory of biochemistry

Experience gained in:

- Cloning and expression of genes using expression systems in *Escherichia coli*
- Purification of proteins for biochemical characterization
- Analysis of possible reciprocal interactions

Supervisor: Dr. Mariarita De Felice

From June 2013 to
September 2013

Bachelor Degree experimental thesis

Università degli studi di Napoli Federico II, Biology department

Experience gained in:

- Plasmidic DNA preparation
- Digestions with restriction enzymes
- Ligations of DNA fragments
- Competent cells transformations and PCR screening of clones
- Analytic expression of fusion proteins and electrophoresis analysis

Supervisor: Dr. Valeria Cafaro

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EDUCATION AND TRAINING

15 June 2016 M.Sc. in Biology (biomolecular curriculum)

At Federico II University, Naples
Score: 110/110 with merit

11 December 2013 B.Sc. in Biology

At Federico II University, Naples
Score: 109/110

July 2013 Scientific High School degree

Scuole Pie Napoletane, Naples
Score: 100/100

Mother tongue Italian

Other language	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	6	7	6.5	6.5	6

April 2017

ACADEMIC ENGLISH IELT CERTIFICATE SCORE: 6.5

PERSONAL SKILLS

Digital skills: European Computer Driving Licence (ECDL)

Driving licence: B

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Publications

Formentin E., Barizza E., Stevanato P., Falda M., **Massa F.**, Tarkowská D., Novák O., Lo Schiavo F., (2018) Fast regulation of hormone metabolism contributes to salt tolerance in rice (*Oryza Sativa* spp. *Japonica*, L.) by inducing specific morpho-physiological responses. *Plants (Basel)* **7**, 3, p. 75.

De Falco M., **Massa F.**, Rossi M., De Felice M., (2018) "The Sulfolobus solfataricus RecQ-like DNA helicase Hel112 inhibits the NurA/HerA complex exonuclease activity." *Extremophiles*. **22**, pp. 581–589

Honours and awards:

Seed grant 2019-SIBV

Other activities:

Teaching activity as Prof. Livio Trainotti assistant for didactical laboratories of Biotechnology Bachelor Degree at University of Padova.

Certifications:

Italian professional practice exam in Biology

References:

Professor Fiorella Lo Schiavo

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