

UNIVERSITA' DEGLI STUDI DI GENOVA

AREA RICERCA, TRASFERIMENTO TECNOLOGICO E TERZA MISSIONE

SERVIZIO RICERCA

SETTORE RICERCA NAZIONALE

IL RETTORE

- Visto il Decreto Rettorale n. 2041 del 15/05/2025, con il quale è stato indetto il concorso per titoli e colloquio, per il conferimento 1 borsa di ricerca post-lauream, di tipo consolidator della durata di 12 mesi, dell'importo di € 18.000,00 euro (diciottomila/00), eventualmente rinnovabile, per lo svolgimento di una ricerca sul tema "Valorizzazione dei sottoprodotti provenienti dalla filiera conserviera del tonno in scatola e da prodotti alimentari di acquacoltura" - CUP D35F21001880006, presso il DIFAR dell'Università degli Studi di Genova;
- Visto il Decreto Rettorale n. 2449 del 10/06/2025 con il quale è stata costituita la Commissione giudicatrice per il conferimento della suddetta borsa di ricerca;
- Visto il verbale della Commissione giudicatrice del concorso in parola, riunitasi in data 16/06/2025;
- Constatata la regolarità della procedura seguita;

DECRETA

Art. 1

Sono approvati gli atti del concorso di cui in premessa e la seguente graduatoria di merito:

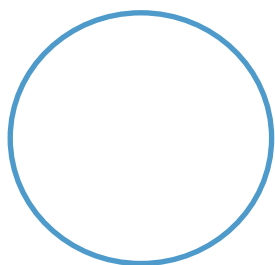
- | | |
|-----------------------------|--------------|
| 1. Dott.ssa Federica Grasso | punti 83/100 |
|-----------------------------|--------------|

Gli altri candidati non raggiungono il punteggio minimo per l'idoneità ai fini della fruizione della borsa. Sotto condizione dell'accertamento dei requisiti di cui al bando, è dichiarata vincitrice del concorso in parola la Dott.ssa Federica Grasso.

Genova,

IL RETTORE

(firmato digitalmente)



Federica Grasso

ABOUT ME

Reliable, respectful, helpful and very willing to learn.

WORK EXPERIENCE

 **Università degli Studi di Genova** – Genova, Italy

City: Genova | Country: Italy

PhD Student in Sciences and Technologies of Chemistry and Materials (STCM), curriculum Pharmaceutical, Food and Cosmetic Sciences (SFAC)

[01/11/2021 – 31/05/2025]

 **Farmacia Manca** – Genova, Italy

City: Genova | Country: Italy

Pharmacist

[27/07/2020 – 18/12/2021]

 **H2O Srl** – Genova, Italy

City: Genova | Country: Italy

Congressional Hostess

[2016 – 2016]

 **Agriturismo La Maliarda** – Rossiglione, Italy

City: Rossiglione | Country: Italy

Waitress

[2013 – 2014]

 **Bar Ristorante Margherita** – Crocefieschi, Italy

City: Crocefieschi | Country: Italy

Waitress

[2008 – 2012]

EDUCATION AND TRAINING

PhD in Sciences and Technologies of Chemistry and Materials (STCM), curriculum Pharmaceutical, Food and Cosmetic Sciences (SFAC) (Final exam scheduled for end of September 2025)

Università degli Studi di Genova, Dipartimento di Chimica e Chimica Industriale (DCCI) [01/11/2021 – 31/05/2025]

City: Genova | Country: Italy | Website: <https://chimica.unige.it/dottorato> | Field(s) of study: Food Chemistry | Level in EQF: EQF level 8 | Thesis: "Valorization of side streams from the food industry through the use of green technologies"

RESEARCH PERIOD ABROAD:

- September 2022 - December 2022, Anfaco-Cecopesca (Vigo, Spain), supervisor Dr. Diego Méndez Paz (EcoeFISHent project).
- May 2023 – June 2023, AIMPLAS (Valencia; Spain), supervisor Dr. Andrea Morandini (EcoeFISHent project).

FOCUS:

- Extraction of gelatin, collagen peptides and non-collagenous proteins assisted by enzymes and/or ultrasounds from by-products coming from the fish supply chain;
- Lipid extraction via Enzymatic-assisted extraction (EAE), microwave-assisted extraction (MAE)
- Application of ATR-FTIR on extracted samples from the fish supply chain (gelatin, hydrolyzed collagen peptides, non-collagenous proteins);
- Supercritical Fluid Extraction (SFE) on tuna by-products (lipids extraction);
- Chemical-bromatological characterization of by-products coming from the fish supply chain (determination of water content, proteins by Kjeldahl distillation, inorganic fraction by combustion in muffle furnace, lipid fraction);
- Study of lipid oxidation by spectrophotometric analysis of conjugated dienes and trienes, TBARS (ThioBarbituric Acid Reactive Substances) test and comparison with the parameters of oxidative stress suggested by Codex Alimentarius (acidity, peroxides, p-anisidine, Totox) obtained with FoodLab CDR, a rapid photometric analyser;
- Spectroscopic analysis in fluorescence with focus on the control of the degradation of some nutrients in breast milk samples in collaboration with Banca del Latte Umano Donato (BLUD) of the G. Gaslini Hospital in Genoa;
- Spectrophotometric analysis on collagen microplate by Sircol test;
- Determination of total soluble solids content, Brix degrees, (eg. fruit extracts) by refractometric analysis;
- Antioxidant power analysis with Folin- Ciocâlteu and DPPH methods on different matrices;
- Use of freeze-dryer on different samples;
- Formulation study by spray-dryer on ellagic acid samples;
- Diffuse reflectance spectrophotometric analysis with integrating sphere and study of the corresponding CIE Lab parameters (L^* , a^* , b^*) on basil semi-finished products with application of chemometric techniques (eg. PCA, Analysis of Principal Components)

EcoeFISHent valorization of fishing and fish industries side-streams background knowledge

Università degli Studi di Genova [17/10/2023 – 21/05/2024]

Website: <https://corsi.unige.it/corsi/11696> | Final grade: 110 cum laude | Level in EQF: EQF level 7 | Thesis: "Green extraction techniques for the eco-efficient valorization of side streams coming from the food supply chain"

Master degree in Pharmaceutical Chemistry and Technology (CTF)

Università degli Studi di Genova, Dipartimento di Farmacia (DIFAR) [09/2013 – 07/2020]

City: Genova | Country: Italy | Website: <https://corsi.unige.it/corsi/8451/> | Final grade: 105/110 | Level in EQF: EQF level 7 | Thesis: Strategie analitiche per l'individuazione della specie botanica di provenienza di oli "speciali" o "gourmet"

Training programme for acquiring the 24 CFU

Università di Genova [2020 – 2020]

City: Genova | Country: Italy | Level in EQF: EQF level 7

Apprendistato Course

Is.For.Coop. Genova [2020 – 2021]

City: Genova | Country: Italy

Scientific high-school diploma

E. Fermi [2007 – 2012]

City: Genova | Country: Italy | Final grade: 91/100 | Level in EQF: EQF level 4

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING B2 READING B2 WRITING B2
SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

Spanish

LISTENING B1 READING B1 WRITING A1
SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

German

LISTENING B1 READING B1 WRITING B1
SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

French

LISTENING A1 READING A1 WRITING A1
SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

[2022]

A Preliminary Color Study of Different Basil-Based Semi-Finished Products during Their Storage.

Authors: Turrini, F.; Farinini, E.; Leardi, R.; Grasso, F.; Orlandi, V.; Boggia, R.

Molecules 2022, 27 (7), 2059.

[2023]

Cationic Polystyrene-Based Hydrogels as Efficient Adsorbents to Remove Methyl Orange and Fluorescein Dye Pollutants from Industrial Wastewater.

Authors: Alfei, S.; Grasso, F.; Orlandi, V.; Russo, E.; Boggia, R.; Zuccari, G.

Int. J. Mol. Sci. 2023, 24 (3), 2948.

[2023]

Cationic Polystyrene-Based Hydrogels: Low-Cost and Regenerable Adsorbents to Electrostatically Remove Nitrites from Water.

Authors: Alfei, S.; Orlandi, V.; Grasso, F.; Boggia, R.; Zuccari, G.

Toxics 2023, 11 (4), 312.

[2023]

EEM Fluorescence Spectroscopy Coupled with HPLC-DAD Analysis for the Characterization of Bud Derivative Dietary Supplements: A Preliminary Introduction to GEMMAPP, the Free Data- Repository from the FINNOVER Project.

Authors: Turrini, F.; Donno, D.; Grasso, F.; Mustorgi, E.; Beccaro, G. L.; Guido, M.; Fior, T.; Grilli, M.; Pittaluga, A.; Boggia, R.

Appl. Sci. 2023, 13 (15), 8679.

[2023]

Green Extraction and Preliminary Biological Activity of Hydrolyzed Collagen Peptides (HCPs) Obtained from Whole Undersized Unwanted Catches (Mugil Cephalus L.).

Authors: Orlandi, V.; Dondero, L.; Turrini, F.; De Negri Atanasio, G.; Grasso, F.; Grasselli, E.; Boggia, R.

Molecules 2023, 28 (22), 7637.

[2023]

Feasibility of Enzymatic Protein Extraction from a Dehydrated Fish Biomass Obtained from Unsorted Canned Yellowfin Tuna Side Streams: Part I.

Authors: Grasso, F.; Méndez-Paz, D.; Vázquez Sobrado, R.; Orlandi, V.; Turrini, F.; De Negri Atanasio, G.; Grasselli, E.; Tiso, M.; Boggia, R.

Gels 2023, 9 (9), 760.

[2024]

Feasibility of Enzymatic Protein Extraction from a Dehydrated Fish Biomass Obtained from Unsorted Canned Yellowfin Tuna Side Streams: Part II.

Authors: Grasso, F.; Méndez Paz, D.; Vázquez Sobrado, R.; Orlandi, V.; Turrini, F.; Agostinis, L.; Morandini, A.; Jenssen, M.; Lian, K.; Boggia, R.

Gels 2024, 10 (4), 246.

[2024]

Antioxidant Marine Hydrolysates Isolated from Tuna Mixed Byproducts: An Example of Fishery Side Streams Upcycling.

Authors: Grasso, F.; Martínez, M. M. A.; Turrini, F.; Méndez Paz, D.; Vázquez Sobrado, R.; Orlandi, V.; Jenssen, M.; Lian, K.; Rombi, J.; Tiso, M.; Razzuoli, E.; Costas, C.; Boggia, R.

Antioxidants 2024, 13 (8), 1011.

[2025]

Unlocking the Potential of Marine Sidestreams in the Blue Economy: Lessons Learned from the EcoeFISHent Project on Fish Collagen.

Authors: Dondero, L.; De Negri Atanasio, G.; Tardanico, F.; Lertora, E.; Boggia, R.; Capra, V.; Cometto, A.; Costamagna, M.; Fi.L.S.E; Feletti, M.; Garibaldi, F.; Grasso, F.; Jenssen, M.; Lanteri, L.; Lian, K.; Monti, M.; Perucca, M.; Pinto, C.; Poncini, I.; Robino, F.; Rombi, J. V.; Ahsan, S. S.; Shirmohammadi, N.; Tiso, M.; Turrini, F.; Zacccone, M.; Zanutti-Russo, M.; Demori, I.; Ferrari, P. F.; Grasselli, E.

Mar. Biotechnol. 2025, 27 (2), 63.

HONOURS AND AWARDS

[22/09/2023] Autumn School in Food Chemistry, Pavia

Best oral presentation

[05/04/2024] GIFC24, Giornate Italo-Francesi di Chimica 2024, Torino (IT)

Best Poster Award

SKILLS

Relational skills / Teamwork / Organisational and management skills / Problem-Solving

DRIVING LICENCE

Driving Licence: B