





PERSONAL INFORMATION

Micol Purrotti



 1/TER, Bg. Molere, Borgone Susa (TO), 10050, Italy
 +39 3774081358
 micol.purrotti@ispa.cnr.it; micol.purrotti@pec.it
 Micolp81
 Sex Female | Date of birth 01/12/1981 | Nationality Italian

WORK EXPERIENCE

- From August 2015 to present**Postdoctoral fellowship**

National Research Council of Italy (CNR-ISPA), Turin, Italy
 Main activities: biochemical characterization of food; proteomic analysis of food by 2-DE and mass spectrometry
 Sector food biochemistry
- From February 2013 to February 2015**R&D Scientist**

Biochemtex S.p.A, M&G Group, Rivalta Scrivia (AL), Italy (large enterprise)
<http://www.biochemtex.com/>
 Main activities: R&D activities (enzymology/proteomic evaluation and microbiology/fermentation) for the production of 2nd generation biochemicals and biofuels
 Sector white biotechnology
- From April 2012 to January 2013**Postdoctoral fellowship**

Department of Life Science and System Biology, University of Turin, Italy
 Main activities: research in the field of microbial biochemistry and proteomics
 Sector food and microbial biochemistry
- From April 2010 to January 2012**R&D Scientist**

Biosearch Ambiente srl, Environment Park, Turin, Italy (small enterprise)
<http://www.biosearchambiente.it/>
 Main activities: R&D in the field of microbiology, microbial biochemistry, proteomics, fermentation applied to the production of biofuels
 Sector white biotechnology
- From October 2009 to March 2010**Postdoctoral fellowship**

National Research Council of Italy (CNR-ISPA), Turin, Italy (public research Institution)
 Main activities: research in the field of food proteomic and biochemistry
 Sector food biochemistry
- From March 2009 to August 2009**Researcher**

Algaefactor Srl., Cuneo, Italy (small enterprise)
 R&D activities applied to biofuels and biochemicals production from microalgae
 Sector white biotechnology
- From May 2008 to August 2008 and November - December 2008**Visiting Scientist (Internship during PhD)**

Department of Food Science, University of Copenhagen, Denmark
 Main activities: research regarding food microbiology and biochemistry (proteomics and molecular biology)
 Sector food biochemistry
- From 2005 to 2009 (12 months)**Teaching in High School**

Biological Science and Chemistry Supply Teacher at several high schools of Italy
 Sector educational

From June 2004 to July 2004

Trainee program during master degree

Martin Bauer Spa, Nichelino (TO), Italy (big enterprise) <http://www.martin-bauer.it/>
 Main activities: chemical and biological analysis of phytopharmaceutical products for quality control
 Sector phytopharmaceutical

EDUCATION

January 2015 to present
 (in progress)

Postgraduate certification in Human Nutrition
 University of Pavia, Italy

December 2014

Licence to practice the profession of Biologist
 University of Turin, Italy

From October 2005 to February
 2009

PhD in Biochemistry

Doctoral School of Biochemistry, University of Turin, Italy
 Final grade: maximum grade
 Research activities in the field of food microbial biochemistry
 Main topics: food and microbial proteomics
 Thesis title: "Microbial ecosystems in food: biochemical and molecular aspects of energy production, pH counteracting, cooperative and antagonistic cross-talk" (3 years of experimental work)

From October 2003 to September
 2005

Master Degree in Industrial Biotechnology

Faculty of Mathematics, Physics and Natural Science, University of Turin, Italy
 Final grade: 110/110 with Honours
 Thesis title: "Biochemical and physiological analysis of a tyramine producer *E. faecalis* strain isolated from cheese" (1 year of experimental work)

From October 2000 to July 2003

Bachelor Degree in Biotechnology

Interfaculty of Biotechnology, University of Turin, Italy
 Final grade: 110/110 with Honours
 Thesis title: "Modulation of gene expression by antisense strategies and RNA interference: basics and applications"

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	B2
German	A1	A1	A1	A1	A1

Communication skills

Good in interpersonal skills, deeply predisposed to the teamwork, collaborative and well organized; strongly interested in international scientific connection; good communication skills in english.

Organisational / managerial skills

Good in planning and practical organization, methodical and precise work aptitude, logical, fast and independent in finding solutions.

Technical skills and competences	<p>R&D technical competences in the following fields: biochemistry, proteomics, microbiology, molecular biology. Fermentation technical experience both at laboratory, pilot and industrial scales.</p> <p>Major technical skills:</p> <ul style="list-style-type: none"> - proteomic analysis by SDS-PAGE, 2DE and MS and immunoblotting; - chemical analysis and characterization of biomolecules by HPLC in food and biomasses; - biochemistry evaluation (e.g. enzymology studies, immunochemistry); - food biochemistry; - food and environmental microbiology; - bacterial and fungi fermentation at laboratory, pilot and industrial scale; - microalgae culturing; - molecular biology (PCR, cloning, sequencing, Northern blot analysis, Chromosome walking methods). <p>Teaching experiences both at high School and at University (Lectures assistant at University of Turin, for biology and biotechnology degree Programs and for the Master in Nutrition Science).</p>
Computer skills	<p>MS Office (Word, Excel, PowerPoint), SPSS, Photoshop, ImageJ.</p> <p>Software for 2D Gel Analysis: Progenesis PG200, Progenesis Same Spot – Nonlinear-DYNAMICS</p> <p>Databases: UniProt (SwissProt, TrEMBL, PIR-PSD), NCBI</p> <p>Bioinformatics free available online for protein sequence and structure analysis (BLAST, FASTA, SignallP at CBS, etc.)</p> <p>Bioinformatics for DNA sequence and primer design (MultAlin, AnnHyb, CLUSTALW etc.)</p>
Personal skills	<p>Positive attitude, responsible, self-motivated and motivating people, strong analytical abilities and problem solving skills, team work skills, organizational skills and customer service orientation, initiative with a high level of energy.</p>
Driving licence	<p>Driving licence class B</p>

ADDITIONAL INFORMATION

Publications	<ul style="list-style-type: none"> - Optimization of 2-DE resolution using narrow range immobilized pH gradients for studying a 2-phenylethylamine producing strain of <i>Enterococcus faecalis</i> Pessione, A. Lamberti, C. Mazzoli, R. Purrotti, M. Travaglia, F. Pessione, E. Giunta, C. Italian Journal of Biochemistry, 2006, 55(1/2), 1.03 - Proteomics reveals a competition between amino-acid decarboxylation and the ADI-pathway in Lactic Acid Bacteria Purrotti, M., Pessione, A., Dufour, M., Lamberti, C., Giunta, C., Pessione, E. Italian Journal of Biochemistry, 2007, 56(3), 15.33 - Influence of ethanol, malate and arginine on histamine production of <i>Lactobacillus hilgardii</i> isolated from an Italian red wine. Mazzoli R., Lamberti C., Coisson J. D., Purrotti M., Arlorio M., Giuffrida M.G., Giunta C. and Pessione E. Amino Acids, 2009, 36 (1): 81-9 - Autoinducer-2 (AI-2) activity produced by bacteria found in smear of surface ripened cheeses Gori, K., Moslehi-Jenabian, S., Purrotti, M. and Jespersen, L. International Dairy Journal, 2011, 21 (1): 48-53 - ADI pathway and histidine decarboxylation are reciprocally regulated in <i>Lactobacillus hilgardii</i> ISE 5211: a proteomic evidence Lamberti C*, Purrotti M*, Mazzoli R., Fattori P., Barelo C., Coisson J.D., Giunta C., Pessione E. (* These authors contributed equally to this work) Amino Acids, 2011, 41 (2): 517-527 - A multidisciplinary study on the effects of phloem-limited viruses on the agronomical performance and berry quality of <i>Vitis vinifera</i> cv. Nebbiolo Giribaldi M., Purrotti M., Pacifico D., Santini D., Mannini F., Caciagli P., Rolle L., Cavallarin L., Giuffrida M. G., Marzachi C. Journal of Proteomics 2011 Dec 10;75(1): 306-15
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Patents

Co-inventors in the following patents application:

- **EP 15425019.5** A process for producing a hydrolyzed mixture from a pre-treated ligno-cellulosic slurry comprising a slurry liquid and slurry solids. Filing date: 12/03/2015
Applicants: Beta Renewables S.p.A., Italy and Novozymes A/S Denmark
- **US62132116** Enzymatic hydrolysis with hemicellulolytic enzymes. Filing date: 12/3/2015
Applicants: Novozymes A/S Denmark and Beta Renewables, Italy
- **US62132126** Multi-stage enzymatic hydrolysis of biomass. Filing date: 12/3/2015
Applicants: Novozymes A/S, Denmark and Beta Renewables, Italy

Congresses participations

- **First Verona International Joint Meeting on Foods, Phytotherapy, Compounds and Health, 23-24 Settembre 2005, Verona, Italy:**
 - ✓ *Enterococcus faecalis* APT TYRA 10-2 1: a tyramine producing strain isolated from a Piedmont cheese. Pessione, A., Purrotti M., Bonetta, S., Dufour, M., Coisson, J.D., Loubière, P., Mazzoli, R. and Pessione, E.
 - ✓ Setting up protocols for studying the proteome of a tyramine producing *Enterococcus faecalis* strain. Lamberti, C., Castelletto, C., Loccisano, S., Pessione, A., Purrotti, M., Mazzoli, R., Arlorio, M. and Giunta, C.
- **25° Congresso Nazionale SIMGBM, 8-10 Giugno 2006, Orvieto, Italy:**
 - ✓ Ethanol can affect histamine production in wine *Lactobacillus*. Purrotti, M., Lamberti, C., Mazzoli, R., Coisson, J.D., Garcia, E., Giunta, C., Pessione, E.
- **51° Congresso Nazionale Società Italiana di Biochimica e Biologia Molecolare (SIB 2006), 28-30 settembre 2006, Riccione, Italy:**
 - ✓ Optimization of 2-DE resolution using narrow range immobilized pH gradients for studying a β -phenylethylamine producing strain of *Enterococcus faecalis*. Pessione, A., Lamberti, C., Mazzoli R., Purrotti, M., Travaglia, F., Pessione, E., Giunta, C.
- **VI Congresso Nazionale di Chimica Alimentare, 7-10 novembre 2006, Alba (Italy):**
 - ✓ Ethanol and malate influence on histamine production by a wine isolated *Lactobacillus hilgardii* strain. Purrotti, M., Lamberti, C., Mazzoli, R., Barello, C., Coisson, J.D., Garcia, E., Pessione, E., Giunta, C.
- **52° Congresso Nazionale Società Italiana di Biochimica e Biologia Molecolare (SIB 2007), 26-28 settembre 2007, Riccione (Italy):**
 - ✓ Proteomic reveals a competition between amino-acid decarboxylation and the ADI pathway in Lactic Acid Bacteria. Purrotti, M., Pessione, A., Dufour, M., Lamberti, C., Giunta, C., Pessione, E.
- **9th Symposium on Lactic Acid Bacteria, 31 Agosto - 4 Settembre 2008, Egmond An Zee (Netherlands):**
 - ✓ Relationships among histidine and malate decarboxylation and the ADI pathway in a wine isolated *Lactobacillus hilgardii*. Lamberti C, Purrotti M, Barello C, Giuffrida MG, Mazzoli R, Fattori P, Pessione A, Giunta C, Pessione E.
- **36° Congresso Nazionale della Società Italiana di Microbiologia (SIM) 12-15 ottobre 2008, Roma (Italy):**
 - ✓ Environmental factors promoting bacteriocins production in two strains of LAB isolated from cheese. Genovese, F., Ricciardi, S., Purrotti, M., Lamberti, C., Fattori, P., Giunta, C., Pessione, E.
- **The SAFE Consortium International Congress on Food Safety, 27-29 April 2009, Girona (Spain):**
 - ✓ Preliminary characterization of a bacteriolysin-like protein produced by a cheese-isolated *L. lactis* strain. Genovese, F., Lamberti, C., Purrotti, M., Giuffrida, M.G., Coccolin L., Napolitano, L., Giunta, C., Pessione, E.
- **16ème Colloque du Club des Bactéries Lactiques. Toulouse (France) 27-29 Maggio 2009, Toulouse (France):**
 - ✓ TDC expression and metabolic control in *Enterococcus faecalis*: a proteomic approach. Pessione, A., Lamberti, C., Purrotti, M., Genovese, F., Mangiapane, E., Giunta, C., Pessione, E.
 - ✓ *L. plantarum* and *L. lactis* interference with *Listeria monocytogenes*: preliminary characterization of the antimicrobial effectors. Genovese, F., Lamberti C., Purrotti M., Napolitano L., Coisson J.D., Giunta C., Pessione, E.
- **XXVIII Convegno Nazionale della Società Italiana di Microbiologia Generale e Biotecnologie Microbiche. Spoleto (PG), 11-13 Giugno 2009, Spoleto (Italy):**
 - ✓ *L. lactis* and *L. plantarum* produce different interfering substances towards *Listeria monocytogenes*: preliminary characterization of the molecules. Genovese, F., Lamberti, C., Purrotti, M., Giuffrida, M.G., Coisson, J.D., Giunta, C., Pessione, E.
- **4th Annual National Conference of Italian Proteomics Association (ITPA), 22-25 Giugno 2009, Milano (Italy):**
 - ✓ Proteomic investigation on a potential zinc concentrating probiotic *Streptococcus thermophilus*. Genovese, F., Mangiapane, E., Lamberti, C., Pessione, A., Purrotti, M., Giunta, C., Pessione, E.
- **54th National Meeting of the Italian Society of Biochemistry and Molecular Biology (SIB), 23- 27 Settembre 2009, Catania (Italy):**
 - ✓ Mutual interference among three energetic routes: histidine decarboxylation, malate decarboxylation and ADI pathway, in a wine isolated *Lactobacillus hilgardii*. Lamberti, C., Purrotti, M., Fattori, P., Pessione, A., Genovese, F., Mangiapane, E., Mazzoli, R., Pessione, E. and Giunta, C.
- **37° Congresso Nazionale della Società Italiana di Microbiologia, 11-14 Ottobre 2009, Turin (Italy):**
 - ✓ Arginine modulation of biogenic amine production in Lactic Acid Bacteria. Lamberti, C., Purrotti, M., Pessione, A., Dufour, M., Coisson, J.D., Laroute, V., Giunta C., and Pessione E.
- **3rd International Symposium Macrowine 2010, 16-18 Giugno 2010, Turin, (Italy):**
 - ✓ Proteomic analysis of the effect of GLRaV-1 and GVA infection on "Nebbiolo" berries at maturity. Giribaldi M., Purrotti M., Pacifico D., Santini D., Cavallarin L., Giuffrida M.G., Conti A

References

Dr. Dario Giordano (CTO of Biochemtex): dario.giordano@gruppomg.com
Dr. Alessandra Frattini (R&D center director of Biochemtex): alessandra.frattini@gruppomg.com
Prof. Enrica Pessione (Master thesis supervisor): enrica.pessione@unito.it
Prof. Carlo Giunta (PhD supervisor): carlo.giunta@unito.it
Dr. Cristina Lamberti (PhD technical supervisor): cristina.lamberti@ispa.cnr.it
Prof. Lene Jespersen (supervisor at the University of Copenhagen): lj@life.ku.dk
Dr. Klaus Gori (technical supervisor at the University of Copenhagen): KLSG@novozymes.com
Dr. Gabriella Giuffrida (technical supervisor at CNR): gabriella.giuffrida@ispa.cnr.it
Dr. Laura Cavallarin (technical supervisor at CNR): laura.cavallarin@ispa.cnr.it
Dr. Roberto Ricci (Biosearch Ambiente srl Chief): biosearch@envipark.com
Dr. Riccardo Autelli (Bachelor thesis supervisor): riccardo.autelli@unito.it

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