

# CURRICULUM VITAE EMANUELA BLANCO

## INFORMAZIONI PERSONALI/ PERSONAL INFORMATION

Nome, Cognome/Name, Surname	EMANUELA BLANCO
Indirizzo/Address Via, numero civico, c.a.p., città, nazione/ House number, street name, postcode, city, country	VIA AMENDOLA 165/A BARI
Telefono/Telephone	0805583400 interno 251
PEC	
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Sito web/Website	<a href="http://ibbr.cnr.it/ibbr/info/people/emanuela-blanco">http://ibbr.cnr.it/ibbr/info/people/emanuela-blanco</a>
Nazionalità/Nationality	ITA
Luogo e data di nascita/ Place and Date of birth	Bari, 06/09/1975

## ESPERIENZA PROFESSIONALE /WORK EXPERIENCE

dipendente CNR	<b>N. MATRICOLA    11211</b> <b>QUALIFICA        RICERCATORE</b> <b>LIVELLO           III</b>
data /Dates (from – to)	From 15/12/2008 to today
Nome e indirizzo del datore di lavoro / Name and address of employer	National Research Council- Piazzale Aldo Moro, 7 - Roma Institute of Biosciences and Bioresources, BARI
Tipo o settore di attività / Type of business or sector	Research activity
Funzione o posto occupato / Occupation or position held	Researcher
Principali mansioni e responsabilità / Main activities and responsibilities	Research activity in biochemistry, molecular biology, omics technologies, biodiversity in plants of agronomic interest. Functional foods. Participation to scientific projects financed by CNR, MIUR (Italian

	Ministry of Instruction, University and Research) and local institutions (Apulia region, Italy). Responsible for an Operative Unit of a FIRB (Future in research 2010) project financed by MIUR (2012-2015)
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Dates (from – to)	03/07/2008 - 05/12/2008
Nome e indirizzo del datore di lavoro / Name and address of employer	Farmaco-Biology Department, Università degli Studi di BARI ALDO MORO - P.zza Umberto I, 1 Palazzo Ateneo - BARI
Tipo o settore di attività / Type of business or sector	Research activity
Funzione o posto occupato / Occupation or position held	Post-Doc fellowship
Principali mansioni e responsabilità / Main activities and responsibilities	Proteomic identification of new neurodegenerative biomarkers for the diagnosis and therapy in multiple sclerosis

Dates (from – to)	01/03/2004 - 28/02/2008
Nome e indirizzo del datore di lavoro / Name and address of employer	Farmaco-Biology Department, Università degli Studi di BARI ALDO MORO - P.zza Umberto I, 1 Palazzo Ateneo - BARI
Tipo o settore di attività / Type of business or sector	Research activity
Funzione o posto occupato / Occupation or position held	Post-Doc fellowship
Principali mansioni e responsabilità / Main activities and responsibilities	Research activity on “Molecular characterization, function and metabolic role of mitochondrial transport systems in plants”

Dates (from – to)	May 2005-October 2005 and September 2008
Nome e indirizzo del datore di lavoro / Name and address of employer	Farmaco-Biology Department, Università degli Studi di BARI ALDO MORO - P.zza Umberto I, 1 Palazzo Ateneo - BARI
Tipo o settore di attività / Type of business or sector	Research activity at the Max-Planck-Institut für Molekulare Pflanzenphysiologie of Golm, Germany.
Funzione o posto occupato / Occupation or position held	Post-Doc
Principali mansioni e responsabilità / Main activities and responsibilities	<i>Research activity: In vivo</i> metabolic role of specific mitochondrial transport systems in <i>Arabidopsis thaliana</i> : transgenic and knock-out lines isolation, physiological characterization, determination of organ distribution and subcellular localization of transport systems, GUS technology, fluorescence and confocal microscopy.

Dates (from – to)	01/03/2004 - 01/07/2004
Nome e indirizzo del datore di lavoro / Name and address of employer	Consorzio Interuniversitario per le Biotecnologie, Localita' Padriciano, 99, Trieste
Tipo o settore di attività / Type of business or sector	Research activity
Funzione o posto occupato / Occupation or position held	Short term fellowship at the Max-Planck-Institute for Molecular Plant Physiology of Golm, Germany
Principali mansioni e responsabilità / Main activities and responsibilities	Research activity on “Molecular characterization, function and metabolic role of mitochondrial transport systems in plants” at the Max-Planck-Institute for Molecular Plant Physiology of Golm, Germany

**ISTRUZIONE E  
FORMAZIONE / EDUCATION  
AND TRAINING**

data /Dates (from – to)	2000-2003 Ph.D. degree in “Cellular Biochemistry and Farmacology” Thesis: “Identification and metabolic role of the mitochondrial aspartate-glutamate transporter in <i>Saccharomyces cerevisiae</i> .”
Nome e tipo d’istituto di istruzione o formazione / Name and type of organisation providing education and training	Farmaco-Biology Department, Laboratory of Biochemistry and Molecular Biology, Università degli Studi di BARI ALDO MORO - P.zza Umberto I, 1 Palazzo Ateneo - BARI
Principali materie e competenze professionali apprese / Principal subjects occupational skills covered	Biochemistry and molecular biology: biological and biochemical techniques for protein and nucleic acids purification, cloning and sequencing strategies, protein incorporation in lipidic vesicles, chromatography techniques and relative informatic application. Molecular characterization, function and metabolic role of mitochondrial transport systems.
Certificato o diploma ottenuto /Title of qualification awarded	Ph.D degree

In ordine di data /Dates (from – to)	2000 Degree in Chemistry (110/110)
Nome e tipo d’istituto di istruzione o formazione / Name and type of organisation providing education and training	Chemistry Department, Università degli Studi di BARI ALDO MORO - P.zza Umberto I, 1 Palazzo Ateneo - BARI

Principali materie e competenze professionali apprese / Principal subjects occupational skills covered	Degree in Chemistry with a minor in Analytical Chemistry
Certificato o diploma ottenuto /Title of qualification awarded	Degree in Chemistry (110/110)

<b>Capacità e competenze personali/ personal skills</b> Madrelingua  Altra lingua  Autovalutazione	ITALIANA					
	INGLESE					
	Comprensione			Parlato		Scritto
	Ascolto	Lettura		Interazione orale	Produzione orale	
	OTTIMA	BUONA		BUONA	BUONA	OTTIMA

**ATTIVITA' DI RICERCA /  
RESEARCH ACTIVITIES**

<b>Attuali campi di ricerca / Research sectors</b>	Research activity in biochemistry, molecular biology, omics technologies, biodiversity in plants of agronomic interest. Functional foods.
<b>Recenti attività scientifiche/ Recent Scientific Activities.</b>	<p>-Identification, molecular analysis and functional characterization of genes coding for enzymes involved in the synthesis and metabolism of antioxidant compounds in plants of agronomic interest (artichoke, wheat, legumes).</p> <p>-Role of cyclic nucleotides (cAMP and cGMP) in plants in signal transduction mechanisms, under biotic stress conditions.</p> <p>-Use of model organisms (Arabidopsis, tobacco) to generate transgenic plants for genes functional characterization.</p> <p>-Operative Unit responsible for the Project: FIRB 2010-Futuro in ricerca (COD. RBFR10S1LJ_002): CYCLIC NUCLEOTIDES IN BIOTIC STRESS SIGNALLING IN PLANT (08/03/2012-08/09/2015)</p> <p>Collaboration to scientific projects:</p> <ul style="list-style-type: none"> <li>• THE CYNARES INTERNATIONAL PROJECT-CAR VARVI (2009-2013)</li> <li>• PROGETTO CISIA- "Conoscenze Integrate per la Sostenibilità e l'Innovazione del made in Italy Agroalimentare" (2011-2014)</li> <li>• Programma Sviluppo Rurale FEAR 2007-2013, asse II, misura 214, azione 4 subazione a): "progetti integrati per la biodiversità".</li> <li>• Pon Iscocem: Sviluppo Tecnologico E Lnnovazione Per La</li> </ul>

	<p>Sostenibilit� E Competitivit� Della Cerealicoltura Meridionale (2011-2014)</p> <ul style="list-style-type: none"> <li>• BioNet - PTP, Biodiversit� per la valorizzazione e sicurezza delle produzioni alimentari tipiche pugliesi - Cod. Progetto 73 - Progetto Reti di Laboratorio, Bando BURP n. 41 del 13/03/2008. Regione Puglia (2013-2015).</li> <li>• BIOforIU - PONA3_00025 D.D. 957/ric del 18/11/2011 prot. N. 1424/29 "Infrastruttura multidisciplinare per lo studio e la valorizzazione della biodiversit� marina e terrestre nella prospettiva della Innovation Union". Ministry of Education and Research (2012-2014).</li> <li>• PRIN 2010-2011 "Identificazione e caratterizzazione di geni utili ad incrementare la produttivit� e sostenibilit� del frumento duro". Ministry of Education and Research (2013-2016).</li> </ul>
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<b>Pubblicazioni/ Books and Articles</b>	<ol style="list-style-type: none"> <li>1. Sabetta W, Vannini C, Sgobba A, Marsoni M, Paradiso A, Ortolani F, Bracale M, Viggiano L, BLANCO E., de Pinto MC (2016). Cyclic AMP deficiency negatively affects cell growth and enhances stress-related responses in tobacco Bright Yellow-2 cells. PLANT MOLECULAR BIOLOGY, vol. 90 (4-5): 467-83. ISSN: 0167-4412, doi: 10.1007/s11103-016-0431-5.</li> <li>2. Hussain J, Chen J, Locato V, Sabetta W, Behera S, Cimini S, Griggio F, Mart�nez-Jaime S, Graf A, Bouneb M, Pachaiappan R, Fincato P, BLANCO E., Costa A, De Gara L, Bellin D, de Pinto MC, Vandelle E (2016). Constitutive cyclic GMP accumulation in Arabidopsis thaliana compromises systemic acquired resistance induced by an avirulent pathogen by modulating local signals. SCIENTIFIC REPORTS, vol. 6; p. 1-18, ISSN: 2045-2322, doi: 10.1038/srep36423.</li> <li>3. De Lisi a, Montesano V, Negro D, Sarli G, BLANCO E., Sonnante G, Laghetti G (2014). Genetic diversity in Borago officinalis germplasm as revealed by seed oils and AFLP polymorphism. GENETIC RESOURCES AND CROP EVOLUTION, vol. 61; p. 853-859, ISSN: 0925-9864, doi: DOI 10.1007/s10722-014-0081-x</li> <li>4. De Paola D, BLANCO E., Pierri CL, Sonnante G (2012). Isolation and characterization of novel variants of BBI coding genes from the legumes Lathyrus sativus. PLANT PHYSIOLOGY AND BIOCHEMISTRY, vol. 57; p. 45-53, ISSN: 0981-9428, doi: 10.1016/j.plaphy.2012.05.001</li> <li>5. Sonnante G, D'Amore R, BLANCO E., Luo J, Pignone D, Martin C. 2012. Acta Hort. (ISHS) 942:377-384 <a href="http://www.actahort.org/books/942/942_55.htm">http://www.actahort.org/books/942/942_55.htm</a> (2012). Isolation And Characterization Of Genes For The Synthesis Of Chlorogenic Acid In Artichoke. ACTA HORTICULTURAE, vol. 942; p. 377-384, ISSN: 0567-7572</li> <li>6. Sonnante G, Gatto A, Morgese A, Montemurro F, Sarli G, BLANCO E., Pignone D (2011). Genetic map of artichoke × wild cardoon:</li> </ol>
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toward a consensus map for *Cynara cardunculus*. THEORETICAL AND APPLIED GENETICS, vol. 123; p. 1215-1229, ISSN: 0040-5752, doi: 10.1007/s00122-011-1661-1

7. Sonnante G, Damore R, Blanco E., Pierri Cl, De Palma M, Luo J, Tucci M, And Martin C (2010). Novel Hydroxycinnamoyl-Coenzyme A Quinate Transferase Genes from Artichoke Are Involved in the Synthesis of Chlorogenic Acid. PLANT PHYSIOLOGY, vol. 153; p. 1224-1238, ISSN: 0032-0889
8. Palmieri F, Rieder B, Ventrella A, Blanco E., Do PT, Nunes-Nesi A, Trauth Au, Fiermonte G, Tjaden J, Agrimi G, Kirchberger S, Paradies E, Fernie AR, Neuhaus HE (2009). Molecular identification and functional characterization of Arabidopsis thaliana mitochondrial and chloroplastic NAD<sup>+</sup> carrier proteins. THE JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 284; p. 31249-31259, ISSN: 0021-9258
9. Palmieri L, Santoro A, Carrari F, Blanco E., Nunes-Nesi A, Arrigoni R, Genchi F, Fernie AR, Palmieri F (2008). Identification and characterization of ADNT1, a novel mitochondrial adenine nucleotide transporter from Arabidopsis. PLANT PHYSIOLOGY, vol. 148; p. 1797-1808, ISSN: 0032-0889, doi: 10.1104/pp.108.130310
10. Palmieri F, Agrimi G, Blanco E., Castegna A, Di Noia M.A, Iacobazzi V, Lasorsa F.M, Marobbio C.M, Palmieri L, Scarcia P, Todisco S, Voza A, Walker J (2006). Identification of mitochondrial carriers in Saccharomyces cerevisiae by transport assay of reconstituted recombinant proteins. BIOCHIMICA ET BIOPHYSICA ACTA, vol. 1757; p. 1249-1262, ISSN: 0006-3002
11. Palmieri L, Arrigoni R, Blanco E., Carrari F, Zanor M.I, Studart-Guimaraes C, Fernie A.R. And Palmieri F (2006). Molecular identification of an Arabidopsis S-adenosylmethionine transporter. Analysis of organ distribution, bacterial expression, reconstitution into liposomes, and functional characterization. PLANT PHYSIOLOGY, vol. 142; p. 855-865, ISSN: 0032-0889
12. Voza A, Blanco E., Palmieri L. And Palmieri F (2004). Identification of the mitochondrial GTP/GDP transporter in Saccharomyces cerevisiae. THE JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 279; p. 20850-20857, ISSN: 0021-9258
13. Cavero S, Voza A, Del Arco A, Palmieri L, Villa A, Blanco E., Runswick M. J, Walker J. E, Cerdn S, Palmieri F. And Satrstegui J (2003). Identification and metabolic role of the mitochondrial aspartate-glutamate transporter in Saccharomyces cerevisiae. MOLECULAR MICROBIOLOGY, vol. 50; p. 1257-1269, ISSN: 0950-382X
1. Sgobba A, Blanco E., Viggiano L, De Pinto MC (2011). "cAMP-SPONGE": A New Genetic Tool To Investigate The Role Of cAMP

**Atti in convegno/  
proceedings**

	<p>In Plants . In: Proceedings of the Joint Meeting AGI-SIBV-SIGA. Assisi, Italy, 19-22 September, 2011</p> <p>2. Gatto A, Danzi D, Curci PL, Khaldi S, Morgese A, Sonnante Gi, De Paola D, Blanco E., Sonnante G (2011). Wild Cardoon Variation And The Domestication Of Artichoke . In: Proceedings of the Joint Meeting AGI-SIBV-SIGA. Assisi, Italy, 19-22 September, 2011</p> <p>3. Sonnante G, Blanco E., Negro D, De Lisi A, Damore R, Pierri CL, De Palma M, Tucci M, Martin C (2010). Nutraceutical properties in artichoke germplasm and the control of chlorogenic acid synthesis. In: 2nd International Symposium on Genomics of Plant Genetic Resources. Bologna, Italy, 24-27 September, 2010, p. 247</p> <p>4. Sonnante G, Damore R, Luo J, Blanco E., Pierri CL, Martin C (2009). Novel Hydroxycinnamoyl-Quinate Transferase (Hqt) Genes Act In A Network For The Synthesis Of Chlorogenic Acid In Artichoke. In: 53rd Annual Congress Italian Society of Agricultural Genetics. Torino, Italy, September, 16-19, 2009</p> <p>5. Palmieri L, Arrigoni R, Blanco E., Picault N, Carrari F, Fernie A.R, Hodgesm, Palmieri F (2005). Identification of new mitochondrial transporters in Arabidopsis. In: The International Conference on Mitochondria, from Molecular Insight to Physiology and Pathology. Bari, Italy, December 17-22, 2005, p. 76</p>
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<b>H-INDEX</b>	<b>8 (SCOPUS)</b>
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**DICHIARAZIONE  
SOSTITUTIVA DI  
CERTIFICAZIONE (ART. 46 E  
47 D.P.R. 445/2000)**

Consapevole che le dichiarazioni false comportano l'applicazione delle sanzioni penali previste dall'art. 76 del D.P.R. 445/2000, dichiaro che le informazioni riportate nel presente *curriculum vitae* corrispondono a verità.

**TRATTAMENTO DEI DATI  
PERSONALI, INFORMATIVA  
E CONSENSO**

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".

Data  
Bari, 21/02/2017

**FIRMA**  
