



**Europass
Curriculum
Vitae**

Name(s) / Surname(s)	Davide Mainieri
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E-mail	davide.mainieri@cnr.it ; davide.mainieri@isafom.cnr.it
Nationality	Italian
Date of birth	27/09/1969
Gender	M
Education and training	
Jan 2002 – Jun 2006	Ph.D. in Molecular Physiology at the University of Freiburg
Title of qualification awarded	Ph.D
Principal subjects/occupational skills covered	Thesis title: "A role for skeletal muscle STEAROYL-CoA desaturase 1 in the adipose-specific control of thermogenesis." Supervisor: Dr. Abdul Dulloo. Commission: Pr. JP Montani, S. Rusconi, F. Asimucopoulos-Jeannet, S. Iossa, Dr. M. Gubler and Prof. A. Conselmann (President of Jury)
Name and type of organisation providing education and training	University of Freiburg (CH)
Level in national or international classification	Ph.D in Rerum Naturalium
Nov 1996 – Nov 2001	Specialty in Experimental Endocrinology
Title of qualification awarded	Specialist in endocrinology
Principal subjects/occupational skills covered	Vote: 70/70. Title thesis: "Using plants as bioreactors for the production of proopiomelanocortin (POMC) and its derivatives: analysis and prospects." Supervisor: Prof. Luciano Martini, Dr. Paolo Magni
Name and type of organisation providing education and training	Università degli Studi di Milano
Level in national or international classification	Specialist in Endocrinology
Nov 1989 – Febr 1994	Degree in Biological Sciences
Title of qualification awarded	Doctor in Biology
Principal subjects/occupational skills covered	Vote on 108/110. Thesis title: "Study of a sequence that controls the formation of the 3' end of transcripts of the DEG1 gene in Saccharomyces cerevisiae." Supervisor: Ds. Maria Agastoni Carbone, Prof. Lucia Panzeri
Name and type of organisation providing education and training	Università degli Studi di Milano

Level in national or international classification	Doctor in Biology
2008	ECDL Released by ITCG "Pitagora Castrovillari (CS) Data 19/12/2008 N Scills Card EN 1500751 duration one yea
Work Experience	
Aug 2022 – Till Now	ISAFOM-CNR. Cosenza Section, Permanent position Researcher III level at the National Council of Research (CNR)
Occupation or position held	Researcher
Main activities and responsibilities	Microbiology, plant biology, molecular biology and cellular biology. PI in PNRR PE10 "ON FOOD", Partecipant in PNRR TAKE4YOU. Responsibility of laboratory special waste
Name and Address of employer	National Council of Research (CNR)
Type of business or sector	Resercher
Jan 2019 – Aug 2022	ISAFOM-CNR. Cosenza Section, Research technician VI level
Agu 2011 – Jan 2019	Permanent position – Plant biology; Contract of Research Technician VI level at the National Council of Research (CNR), Institute of Biology and Biotechnology Agrarian (IBBA) directed by Dr. Ceriotti A, Lab Dott. Vitale A.
Occupation or position held	Reserch assistant
Main activities and responsibilities	Cellular Biology, protein Trafficking. Participant in Projects: Framework Agreement for the Region-CNR, Filagro Project, Prin Project. Laboratory for Radioisotopes.
Name and address of employer	National Council of Research (CNR)
Type of business or sector	Research Laboratory
Date (01/08/2010-30/07/2011)	Fixed-time Contract of Technologist III level at the Council For Research and Experimentation in Agriculture (CRA), Research Unit for the Maisculture (Bergam) CRA-MAC directed by Dr M Motto, Dr Lab. Rossi V.
Occupation or position held	Reserch assistant
Main activities and responsibilities	Epigenetic Maize. Project Participant: AENEAS: "Molecular and genetic tools for studies of the epigenetic responses to environment in maize ". Administrative Functions. Speaker of National and international congresses.
Name and address of employer	Council For Research and Experimentation in Agriculture (CRA)
Type of business or sector	Research Laboratory
Date (01/07/2010-30/07/2010)	Stage at Chemtex Italia SRL (Mossi & Ghisolfi Group)
Occupation or position held	Reserch
Main activities and responsibilities	Bibliographical Research on microorganisms degradatory of complex sugars
Name and address of employer	Dr. Luis Oriani Strada Savonese 9, 11073 Tortona AL Rivalta Scrivia Strada Ribrocca 11
Type of business or sector	Research Laboratory, Bioethanol production Optimization
• Date (23/07/09-16/10/09)	Consultant at the Calsystem S.R.L. Company.
Occupation or position held	Commercial Company

Main activities and responsibilities	Customer Finder, scientific consultant, head of the Zeiss microscopy products
Name and address of employer	Dott. Pietro Cundari Via G. De Chirico 87030 Saporito di Rende CS
Type of business or sector	Occasional Performance
Type of business or sector	Middle School Teaching
Date (01/10/2007-01/10/2008)	Post-Doc at the II University of Naples, Department of Life Sciences directed by Prof. Monaco P, Lab Prof. Lanni A.
Occupation or position held	University, Research
Main activities and responsibilities	Thyroid Hormones-energy homeostasis
Name and address of employer	Università del Sannio , Via Port'Arsa, Benevento
Type of business or sector	Assegno di ricerca a Progetto
• Date (2006 Marzo-2006 novembre)	University of Catanzaro. Department of experimental Medicine Directed by Prof. Signorelli at the Lab of Dr. Brunetti.
Occupation or position held	University, Research
Main activities and responsibilities	Energy Homeostasis. Project Manager. Project Development on the characterization of epigenetic phenomena in the onset of diabetes. Environment-Epigenetic Interaction
Name and address of employer	Dott. Brunetti A, Università "Magna Grecia" Catanzaro
Type of business or sector	Unpaid Post-doc
• Date (Febbraio 2006)	Development of the European project on the use of microRNA in collaboration with CNR-Pozzuoli at the laboratory of Dott. Di Marzo. Participation in various congresses on the subject
Date (2001– 2006)	Contract of assistant at the University of Freiburg (Switzerland) Department of Medicine, Institute of Physiology. Director: Prof. JP Montani, Supervisor: AG Dulloo.
Occupation or position held	University, Research
Name and address of employer	Prof. Montani JP, (gruppo Dott. Dulloo AG) Università di Friburgo, Svizzera
Type of business or sector	Research Assistant Contract
Date (2000-2002)	Researcher at the Institute Biosintesi Botanicals, CNR, Milan, directed by Dott. Alcide Bertani (group Prof. Sandro Vitale).
Occupation or position held	Research
Name and address of employer	National Council of Research (CNR)
Type of business or sector	Research Assistant Contract
Date (1998-2000)	Researcher at the Institute Biosintesi Botanicals, CNR, Milan, directed by Dott. Alcide Bertani (group A. Viotti).
Occupation or position held	Research
Name and address of employer	National Council of Research (CNR)
Type of business or sector	Research Assistant Contract
• Date (1996-1998)	Aid award at Unit VII (clinical-application Area; Molecular Pathology of Diabetes, at DI. BIT 3A1/24), head of: Dott. F. Barbetti

Occupation or position held	Research
Name and address of employer	Ospedale S. Raffele DIBIT Milano
Type of business or sector	Research Assistant Contract
Date (1995-1996)	Fellow c/o The Institute of Tumors of Milan in the Division of Experimental Oncology A, directed by Dr. Marco Pierotti, in the Laboratory of Dr. Domenico Delia:
Occupation or position held	Research
Name and address of employer	Istituto Nazionale Dei Tumori, Milano
Type of business or sector	Research Assistant Contract
Date (1994-1995)	Trainee at D.I.B.I.T. directed by Dr. Meldolesi-San Raffaele Hospital-c/O the laboratory of Prof. Roberto Taramelli.
Occupation or position held	Research
Name and address of employer	Ospedale S. Raffele DIBIT Milano
Type of business or sector	Research Assistant Contract
Date (1993 (Aprile-Settembre))	Stage at the Biotechnological Center of the University of Oslo (Lab. Prof. Erling Seeberg) – Internship funded by the Erasmus Programme (exchange of students in the Countries of the European Community)
Occupation or position held	Research
Name and address of employer	University of Oslo P.O.B. 1125 Blindern N-0316 Oslo 3, Norway
Type of business or sector	Research Assistant Contract
Date (1992-1994)	Researcher at the University of Milan-Department of Biology and Genetics of Microorganisms, directed by Prof. Giovanni Sironi, in the laboratory of Prof. Lucia Panzeri and Dr. Maria Luisa Agostoni Carbone
Occupation or position held	Research
Name and address of employer	Università degli studi di Milano Via Celoria 20/22, 20133 Milano
Type of business or sector	Research Assistant Contract
Presentations at national and international conferences, published in national and international journals	More than 30
Book chapters	1 Davide Mainieri. Tecniche biologiche di valorizzazione del contenuto energetico di biomasse di recupero da I Quaderni del Master Numero 1: Rifiuti organici: da prodotto di scarto a materiale energetico
Accessions to databanks.	1. Sequenza dell'intera sequenza del gene 16S ribosomale RNA del ceppo VTB11 di <i>Bacillus subtilis</i> ACCESSION KX011164 Documentazione a corredo: http://www.ncbi.nlm.nih.gov/nucleotide/KX011164 2. Sequenza del gene 16S ribosomale RNA del ceppo VTB11 di <i>Bacillus licheniformis</i> ACCESSION KX011165 Documentazione a corredo: http://www.ncbi.nlm.nih.gov/nucleotide/102399453

Publications.
H-index: 15 from
Scopus
Quoted citations
754

1. Arcalis, E Mainieri, D, Vitale, A Stoeger, E Pedrazzini, E (2021) Progressive Aggregation of 16 kDa Gamma-Zein during Seed Maturation in Transgenic Arabidopsis thaliana INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES
2. Brocca L, Zuccaro M, Frugis G, Mainieri D, Marrano C, Ragni L, Klein EM, Vitale A, Pedrazzini E. (2021) Two γ -zeins induce the unfolded protein response. *Plant Physiol.* Nov 3;187(3):1428-1444. doi: 10.1093/plphys/kiab367
3. Mainieri D, Marrano CA, Prinsi B, Maffi D, Tschofen M, Espen L, Stöger E, Faoro F, Pedrazzini E, Vitale A.. Maize 16-kD γ -zein forms very unusual disulfide-bonded polymers in the endoplasmic reticulum: implications for prolamin evolution.. *J Exp Bot.* 2018 Oct 12;69(21):5013-5027. doi: 10.1093/jxb/ery287.
4. De Marchis F, Colanero S, Klein EM, Mainieri D, Prota VM, Bellucci M, Pagliuca G, Zironi E, Gazzotti T, Vitale A, Pompa A.. Expression of CLAVATA3 fusions indicates rapid intracellular processing and a role of ERAD. *Plant Sci.* 2018 Jul;272:230-234. doi: 10.1016/j.plantsci.2018.04.026. Epub 2018 May 11. No abstract available.
5. Pedrazzini E., Mainieri D., Marrano C. A. and Vitale A. (2016) Where do Protein Bodies of Cereal Seeds Come From? *Frontiers in Plant Science* Volume: 7 Article Number: 1139 Published: AUG 4 2016 IF: 4.298 DOI: 10.3389/fpls.2016.01139. Accession Number: WOS:000380899800001. PubMed ID: 27540384. ISSN: 1664-462X.
6. Ceresoli V, Mainieri D, Del Fabbro M, Weinstein R, Pedrazzini E. (2016) A Fusion between Domains of the Human Bone Morphogenetic Protein-2 and Maize 27 kD gamma-Zein Accumulates to High Levels in the Endoplasmic Reticulum without Forming Protein Bodies in Transgenic Tobacco *Frontiers In Plant Science* Volume: 7 Article Number: 358 IF: 4.298. DOI: 10.3389/fpls.2016.00358. Accession Number: WOS:000372749700001. PubMed ID: 27047526. ISSN: 1664-462X
7. Mainieri D., Morandini F., Maitrejean M., Sacconi A., Pedrazzini E. and Vitale A. (2014) Protein body formation in the endoplasmic reticulum as an evolution of storage protein sorting to vacuoles: insights from maize gamma-zein. *Frontiers In Plant Science* Volume: 5 Article Number: 331 IF: 4.298. DOI: 10.3389/fpls.2014.00331. Accession Number: WOS:000339507200001. PubMed ID: 25076952. ISSN: 1664-462X
8. Mascheretti I, Battaglia R, Mainieri D, Altana A, Lauria M, Rossi V. (2013). The WD40-repeat proteins NFC101 and NFC102 regulate different aspects of maize development through chromatin modification. *Plant Cell.* Feb;25(2):404-20. IF: 8.987. DOI: 10.1105/tpc.112.107219. Accession Number: WOS:000316805700008. PubMed ID: 23424244. ISSN: 1040-4651
9. de Virgilio M, De Marchis F, Bellucci M, Mainieri D, Rossi M, Benvenuto E, Arcioni S, Vitale A. (2008) The human immunodeficiency virus antigen Nef forms protein bodies in leaves of transgenic tobacco when fused to zeolin. *J Exp Bot.*;59(10):2815-29. IF:2,48. DOI: 10.1093/jxb/ern143. Accession Number: WOS:000257401500021. PubMed ID: 18540021. ISSN: 0022-0957
10. Summermatter S, Mainieri D, Russell AP, Seydoux J, Montani JP, Buchala A, Solinas G, Dulloo AG. (2008) Thrifty metabolism that favors fat storage after caloric restriction: a role for skeletal muscle phosphatidylinositol-3-kinase activity and AMP-activated protein kinase. *FASEB J.* Mar;22(3):774-85. IF: 6.791. DOI: 10.1096/fj.07-8972com. Accession Number: WOS:000254143700016. PubMed ID: 17928359. ISSN: 0892-6638
11. Mainieri, D, Bahi, A; Boyer, F; Dreyer, JL; Dulloo, AG CD81-induced inhibition of the melanocortin system in hypothalamic arcuate nuclei leads to obesity through both hyperphagia and hypometabolism (2007) *INTERNATIONAL JOURNAL OF OBESITY* IF:5.004, ISSN : 0307-0565
12. Crescenzo R, Lionetti L, Mollica MP, Ferraro M, D'Andrea E, Mainieri D, Dulloo AG, Liverini G, Iossa S. (2006) Altered skeletal muscle subsarcolemmal mitochondrial compartment during catch-up fat after caloric restriction. *Diabetes.* 55 2286-93. IF: 7,45. DOI: 10.2337/db06-0312. Accession Number: WOS:000239468300015. PubMed ID: 16873692. ISSN: 0012-179

13. Alseth I, Rognes T, Lindback T, Solberg I, Robertsen K, Kristiansen KI, Mainieri D, Lillehagen L, Kolsto AB, Bjorås M. (2006) A new protein superfamily includes two novel 3-methyladenine DNA glycosylases from *Bacillus cereus*, AlkC and AlkD. *Mol Microbiol.* 59, 1602-9 IF: 4.481 DOI: 10.1111/j.1365-2958.2006.05044. Accession Number: WOS:000235220200018. PubMed ID: 16468998. ISSN: 0950-382X
14. Mainieri D, Summermatter S, Seydoux J, Montani JP, Rusconi S, Russell AP, Boss O, Buchala AJ, Dulloo AG. (2006) A role for skeletal muscle SCD1 control of thermogenesis *FASEB J* Aug;20(10):1751-3. IF: 7.20. DOI: 10.1096/fj-06-5934fje. Accession Number: WOS:000240266600037. PubMed ID: 16809433. ISSN: 0892-6638
15. Mainieri D, Montani JP, Seydoux J, Giacobino JP, Boss O, Dulloo AG. (2006) β -adrenergic control of stearoyl-CoA desaturase 1 gene expression in relation to sympathoadrenal regulation of thermogenesis *Int J Obes (Lond)*. Feb;31(2):378-81 IF: 4.055 DOI: 10.1038/sj.ijo.0803424. Accession Number: WOS:000244081500027. PubMed ID: 16801925. ISSN: 0307-0565
16. Solinas G, Summermatter S, Mainieri D, Gubler M, Montani JP, Seydoux J, Smith S R, Dulloo AG. (2006) Corticotropin-releasing hormone directly stimulates thermogenesis in skeletal muscle possibly through substrate cycling between de novo lipogenesis and lipid oxidation. *Endocrinology* 147, 31-38 IF: 5.31. DOI: 10.1210/en.2005-1033. Accession Number: WOS:000234053500007. PubMed ID: 16210362. ISSN: 0013-7227
17. Cettour-Rose P, Samec S, Russell AP, Summermatter S, Mainieri D, Carrillo-Theander C, Montani JP, Seydoux J, Rohner-Jeanrenaud F, Dulloo AG. (2005) Redistribution of glucose from skeletal muscle to adipose tissue during catch-up fat: a link between catch-up growth and later metabolic syndrome. *Diabetes* 54, 751-756 IF:7.955. DOI: 10.2337/diabetes.54.3.751. Accession Number: WOS:000227423600021. PubMed ID: 15734852. ISSN: 0012-179
18. Solinas G, Summermatter S, Mainieri D, Gubler M, Pirola L, Wymann MP, Rusconi S, Montani JP, Seydoux J, Dulloo, AG. (2004) The direct effect of leptin on skeletal muscle thermogenesis is mediated by substrate cycling between de novo lipogenesis and lipid oxidation. *FEBS Lett* 577, 539-544 IF: 6.82. DOI: 10.1016/j.febslet.2004.10.066. Accession Number: WOS:000225368300042. PubMed ID: 15556643. ISSN: 0014-5793
19. Mainieri, D, Rossi M, Archinti M, Bellucci M, De Marchis F, Vavassori S, Pompa A, Arcioni S, Vitale A. (2004) Zeolin. A new recombinant storage protein constructed using maize gamma-zein and bean phaseolin. *Plant Physiol* 136, 3447-3456. IF: 6.114. DOI: 10.1104/pp.104.046409. Accession Number: WOS:000225315600007. PubMed ID: 15502013. ISSN: 0032-0889
20. Crescenzo R, Mainieri D, Solinas G, Montani JP, Seydoux J, Liverini G, Iossa S, Dulloo AG. (2003) Skeletal muscle mitochondrial oxidative capacity and uncoupling protein 3 are differently influenced by semistarvation and refeeding. *FEBS Lett* 544, 138-142 IF: 3.609. DOI: 10.1016/S0014-5793(03)00491-5. Accession Number: WOS:000183393500025. PubMed ID: 12782304. ISSN: 0014-5793
21. Petruzzelli L, Sturaro M, Mainieri D, Leubner-Metzger G. (2003) Calcium requirement for ethylene-dependent responses involving 1-aminocyclopropane-1-carboxylic acid oxidase in radicle tissues of germinated pea seeds. *Plant, Cell and Environment* 26 661-671 IF:3.613. DOI: 10.1046/j.1365-3040.2003.01001.x. Accession Number: WOS:000183146300002. ISSN: 0140-7791
22. Iossa S, Mollica MP, Lionetti L, Crescenzo R, Botta M, Samec S, Solinas G, Mainieri D, Dulloo, AG, Liverini G. (2002) Skeletal muscle mitochondrial efficiency and uncoupling protein 3 in overeating rats with increased thermogenesis. *Pflugers Arch* 445, 431-436 IF:1.695. DOI: 10.1007/s00424-002-0964-0. Accession Number: WOS:000180583700017. PubMed ID: 12466947. ISSN: 0031-6768
23. Balestrini R, Mainieri D, Soragni E, Garnero L, Rollino S, Viotti A, Ottonello S, Bonfante P. (2000) Differential expression of chitin synthase III and IV mRNAs in ascomata of *Tuber borchii* Vittad. *Fungal Genet Biol* 31, 219-232. IF: 2.566. DOI: 10.1006/fgbi.2000.1242. Accession Number: WOS:000167271900008. PubMed ID: 11273683. ISSN: 1087-1845
24. Garnero L, Lazzari B, Mainieri D, viotti A, Bonfante P. (2000) TMchs4, a class IV chitin synthase gene from the ectomycorrhizal tuber *magnatum*. *Mycol. Res* 104 703-707 IF: 1.133. DOI: 10.1017/S0953756299002051. Accession Number: WOS:000088227200013. ISSN: 0953-7562
25. Guazzini, B., Gaffi, D., Mainieri, D., Multari, G., Cordera, R., Bertolini, S., Pozza, G., Meschi, F., and Barbetti, F. (1998) Three novel missense mutations in the glucokinase gene (G80S; E221K; G227C) in Italian subjects with maturity-onset diabetes of the young (MODY). *Mutations in brief no. 162*. Online. *Hum Mutat* 12, 136. IF: 2.548. DOI: 10.1002/(SICI)1098-1004(1998)12:2<136::AID-HUMU11>3.0.CO;2-0. PubMed ID: 10694920
26. Brambilla A, Mainieri D, Agostoni Carbone ML. (1997) A simple signal element mediates transcription termination and mRNA 3' end formation in the DEG1 gene of *Saccharomyces cerevisiae*. *Mol Gen Genet* 254, 681-688. IF :2,749. Accession Number: WOS:A1997XE49300008. PubMed ID: 9202384. ISSN: 0026-8925