Curriculum Vitae

INFORMAZIONI PERSONALI

Nome	FABIO
Cognome	CARADONNA
Recapiti	Presso Dipartimento STEBICEF (Sezione di Biologia Cellulare) viale delle Scienze, Edificio 16 - 90128 PALERMO
Telefono	347-7164994 329-2273760 091-23897331
Fax	091-6577347
E-mail	fabio.caradonna@unipa.it

FORMAZIONE TITOLI

EDUCATION AND QUALIFICATIONS OF PROF. FABIO CARADONNA Ph. D.

1983-1984: He joins the first year of Biological Sciences course of studies, University of Palermo. He actively attends all courses and lessons and passes all exams as expected in the curriculum by the end of every single academic year.

1985-1986: He's accepted as associated student by the Genetics Section of the Cellular and Developmental Biology Department "A. Monroy" , University of Palermo (pro tempore Director: Prof. G. Giudice) to develop an experimental thesis with the supervision of dr. P. Carbone and Prof. G. Granata.

1987: He takes an University Degree in Biological Sciences 110/110 with maximum honours, with an experimental thesis entitled "Sister Chromatid Exchanges and chromosomal aberrations in Waldenstrom Macroglobulinemia" (supervisor prof. GRANATA; assistant supervisor: Dr. P. CARBONE).

1989 He obtains the qualification to work as biologist.

1992: He's appointed Doctor of Research in Cellular and Developmental Biology, with a decree by the Education Secretary and a "very positive" judgement given by the National Board of Examiners.
He passes the national qualifying examination (DM Pubblica Istruzione 23-3-1990) and obtains a teaching diploma for secondary schools for the following subjects: LXXXVI (Natural Sciences, Chemistry e Geography), XLVII (Hygiene, Anatomy, Physiology, Pathology) and LXXXIII (Nutrition Sciences).

1997: He's given the title of "cultore della materia" with a n. 380, 30th / 01/ 1997 decree by the University of Palermo Rector

1998: He's proclaimed specialist in Clinical Pathology

2002: He obtains a diploma in English (second level and admission to the third level:pre-intermediate-intermediate) after attending a course at "British Institute" in Palermo with a final mark of 25/30 for the written exam and of 28/30 for the oral exam.

2003-2004: He takes a diploma in "Bioethics and culture of life" at the Papal University of Santa Croce, Rome.

ATTIVITA' DIDATTICA

4 – DIDACTIC ACTIVITY

1992-2005: He collaborates with professors G. BARBATA and G. SCIANDRELLO to carry out Genetics experiences within the Experimental Biology II course and for Multidisciplinary Laboratories of the Biological Sciences course of studies.

SCIANDRELLO e R. BARBIERI).
1993-2004: He's assistant supervisor for 15 experimental thesis on Genetics (supervising professors: G. BARBATA, G.

1993-94: He's asked to be a temporarily teacher by Country Educational Office of Sicily

1995, 2000: He gives seminars connected with the course "The place of the man in nature", coordinators prof. A. CESTELLI and prof. I. Di Liegro, at the Free University for the Third Age.

1999-2001: Being very experienced in Genetics, he's given a two-year temporary task (40 + 45 hours) to support in teaching the following courses: Genetics of microorganisms (prof. A.M. PUGLIA), Molecular Genetics (prof. M. LA FARINA), Genetics (prof. A. DI LEONARDO) and Cytogenetics (prof. G. BARBATA), at Biology University Diploma (Biotechnological section of Trapani).

2000-2005: He joins the board of examiners for the following courses: Genetics, Genetics II, Cytogenetics, Environmental Mutagenesis, Genetic Engineering (Biological Sciences course of studies) and Genetics (course of studies in Natural Sciences and corse of studies in Biotechnologies), for 150 hours in all, as appears in the exam minutes.

2001: He's appointed by the Provincial Education Office in Trapani to become a permanent teacher at secondary schools owing to the passed competitive exam (DM 23-3-90) on different subjects regarding Science of life. He refuses the teaching post in order to remain an university employee.

2005- today: He's supervisor for a lot of experimental thesis on Genetics;

2005-2008: He is permanent teacher of Evolutionary Genetics, Genetics of populations, and Laboratories of Genetics (Biological Sciences course of studies, Palermo and Caltanissetta).
He's appointed by the Biological Sciences course of study to be representative of President for the small medium concern relations.

2006: He's asked by the Biological Sciences course of study to be a member of a commission working on "Self-evaluation and monitoring of didactics".

He joins the board of teachers of PhD School, "Cellular and developmental biology".

2007-2008: He joins the board of teachers of First level University Master "Cytotoxicity, cancer and environment" (Coordinator Prof. R. Vento).

2008: He's asked from a public school to give two lessons entitled: "From genetic variability to individual suceptibility"(January, 9 and 16 2008).

2008-2009: He is permanent teacher of Molecular Genetics and Plant Genetics (Biological Sciences course of studies, Palermo and Caltanissetta).

2009: He joins the board of teachers of "Permanent school of refreshing of Science teachers" (SPAIS), living two lessons (July 30, 2009) entitled:"Evolutive dynamics" and "Origin and evolution of genomes: from primordial broth to human DNA".

2009-2010: He joins the board of teachers of First level University Master "Forensic Sciences" (Coordinatore Prof. L. Sineo).

2010: He gives a seminar entitled "Genetics in dyagnosis and therapy" at National Association of doctors in Agrigento

2010-today: He is permanent teacher of Human Genetics and cytogenetics (Biology of Health second level course of degree,

University of Palermo).

2011: He gives a seminar, coordinator prof. I. Di Liegro, at the Free University for the Third Age (January, 28, 2011) entitled “Genetic variability and individual suceptibility".

He joins the board of teachers of “Permanent school of refreshing of Science teachers” (SPAIS), living two lessons (December 12, 2011) entitled:”Lights and shadows in DNA; it is not only a way to speak”.

2011-today: He joins the board of teachers of Medical high school “Clinical biochemical” (Coordinator Prof. M. Ciaccio).

2012: He gives a seminar (April, 18, 2012) entitled “*De gustibus non disputandum est?* The point of view of genetics” in meeting “Alimentarsi o nutrirsi? Noi e il cibo dall'infanzia alla terza età” organized by SOROPTIMIST association of Caltanissetta.

RICERCHE FINANZIATE

2014 - International partnership Italy-Argentine. Project title: Epatotoxicity drug-induced: analysis of CYP2E1 VNTR polimorphisms and acquaporine 9 involvement" in collaboration with University of Bari (Italy) and "Muniz" Hospital of Buenos Aires (Argentine).

PUBBLICAZIONE

ISI/SCOPUS FULL PUBLICATIONS

1. "Chromosomal abnormalities in Waldenström's Macroglobulinemia". P. Carbone, F. Caradonna, G. Barbata, R. Marcenò, A.M. Cavallaro and G. Granata. Cancer Genetics and Cytogenetics 61, 147-151, 1992 (Impact factor: 1,529); pubblicato come "selected paper".
2. "A new pericentric inv(8) in acute nonlymphocytic leukemia". A. Santoro, P. Carbone, F. Caradonna, F. Fabbiano, S. Mirto and F. Caronia. Cancer Genetics and Cytogenetics, 65: 77-78, 1993 (Impact factor: 1,529).
3. "Sister Chromatid Exchanges in Waldenström's Macroglobulinemia" P. Carbone, F. Caradonna, G. Barbata and G. Granata. Cancer Genetics and Cytogenetics, 66: 63-69, 1993 (Impact factor: 1,529).
4. "Possible involvement of IL4 gene in Waldenström's Macroglobulinemia" F. Caradonna, G. Barbata, G. Granata and P. Carbone. Cancer Genet Cytogenet 75, 2: 153-155, 1994 (Impact factor: 1,529).
5. "Karyotype abnormalities in a variant Chinese hamster cell line resistant to methyl methanesulphonate" . Giulia Sciandrello, Fabio Caradonna and Giusi Barbata. Hereditas, 124, 1996 (Impact factor: 0,711).
6. ”*Bradirhizobium* sp. nodulating the Mediterranean shrub Spanish Broom (*Spartium junceum* L.)”. Quatrini P, Scaglione G, Cardinale M, Caradonna F., Puglia AM. Journal of Applied Microbiology, 92, 13-21, 2002 (Impact factor: 1,479).
7. ”Early induction of genetic instability and apoptosis by arsenic in cultured Chinese hamster cells”. Sciandrello G, Barbaro R, Caradonna F., Barbata G. Mutagenesis, 17 (2), 99-103 2002 (Impact factor: 1,538).
8. “The DNA methylation inhibitor 5-azacytidine modulates 6-thioguanine toxicity in mammalian cells”. Sciandrello G. Caradonna F. Barbata G. Toxicology Letters, 142, 1-2, 30, 29 – 35, 2003 (Impact factor: 2,242).
9. “Arsenic-induced DNA hypomethylation affects chromosomal instability in mammalian cells”. Sciandrello G, Caradonna F, Barbata G. Carcinogenesis (Impact factor:4,543) 25, 413-417, 2004.
10. “Mid-region parathyroid hormone-related protein (PTHrP) binds chromatin of MDA-MB231 breast cancer cells and isolated oligonucleotides "in vitro"”. Sirchia R, Priulla M, Sciandrello G, Caradonna F., Barbata G, Luparello C. Breast Cancer Research and Treatment (Impact Factor: 4,64), Nov., 24, 2006.
11. “Chromosomal localization and molecular characterization of three different 5S ribosomal DNA clusters in the sea urchin Paracentrotus Lividus”. Fabio Caradonna, Daniele Bellavia, Ann Maria Clemente, Giorgia Sisino and Rainer Barbieri. Genome Impact factor: 1,86) vol. 50, 867-870, 2007.
12. "Acrylamide catalytically inhibits topoisomerase II in V79 cells”. Sciandrello G, Mauro M, Caradonna F., Catanzaro I, Saverini M, Barbata G. Toxicology in vitro (Impact factor: 2,473) vol. 00, ISSN: 0887-2333, doi: 10.1016, 2009.
13. “Biological effects of inorganic arsenic on primary cultures of rat astrocytes”. Irene Catanzaro, Gabriella Schiera, Giulia Sciandrello, Giusi Barbata, Fabio Caradonna, Patrizia Proia and Italia Di Liegro. International Journal of Molecular Medicine, vol. 26; p. 457-462, ISSN: 1107-3756, doi: 10.3892/ijmm00000485, 2010.
14. "Long-Lasting Genomic Instability Following Arsenite Exposure in Mammalian Cells: The Role of Reactive Oxygen Species”. Giulia Sciandrello, Maurizio Mauro, Irene Catanzaro, Marghereth Saverini, Fabio Caradonna & Giusi Barbata. Environmental and molecular mutagenesis, Apr 25. doi: 10.1002/em.20657[Epub ahead of print], 2011.
15. Genomic instability induced by a-pinene in Chinese hamster cell line. Catanzaro, I., Caradonna, F., Barbata, G., Saverini, M., Mauro, M., & Sciandrello, G. (2012). Mutagenesis, 1 (29 febbraio 2012), 1-7.

16. Cytochrome P450 2E1 variable number tandem repeat polymorphisms and health risks: A genotype-phenotype study in cancers associated with drinking and/or smoking. Catanzaro, I., Naselli, F., Saverini, M., Giacalone, A.M., Montalto, G., & Caradonna, F. (2012). MOLECULAR MEDICINE REPORTS, 1, 1-5.
17. Functional variants of 5S rRNA in the ribosomes of common sea urchin Paracentrotus lividus. Dimarco, E., Cascone, E., Bellavia, D., & Caradonna, F. (2012). Gene, 508, 21-25.

NATIONAL FULL PUBLICATIONS

1. "Rheumatoid Arthtitis – associated HLA-DRB1 Genotypes in Western Sicily". F. Caradonna, G. Sciandrello, M. Mauro, I. Catanzaro, P.K. Lacagnina, D. Bellavia, G. Barbata. Biologi Italiani ISSN: 0329-2510, Anno XXXVII, n. 4, 42-44, 2007.
2. "CR1 allelic distribution in healthy italians and SLE patients". Bellavia D & Caradonna F. Biologi Italiani, vol. Anno XXXX; p. 50-52, 2010.

CHAPTERS OF BOOKS OR BOOKS

1. "C4, BF, C3 allele distribution in IgA nephropathy". Diego Bellavia, Fabio Caradonna, Gaetano Amodeo, Silvio Maringhini, Melchiorre Brai. Capitolo del trattato "Moderately proteinuric IgA Nephropathy in the young" (IOS Press, Amsterdam, 2000).
2. "Genomewide hypomethylation and PTHrP gene hypermethylation as a model for the prediction of cancer risk in rheumatoid arthritis". Fabio Caradonna, Giusi Barbata, Giulia Sciandrello. Capitolo 12° del libro: "Novel aspects of PTHrP physiopathology" by Claudio Luparello (Nova Science Publishers, Inc. New York, USA), 2007 4th quarter, ISBN: 978-1-60021-857-6.
3. "Panta Rei: La Genetica si racconta". Fabio Caradonna, Maurizio Mauro. Aracne Editrice, 2007.
4. "Origine ed evoluzione dei genomi: dal brodo primordiale al DNA umano". Caradonna, F. (2011). In Floriano M, & Chillura Martino D (a cura di), Quaderni di Ricerca in Didattica (Quaderno 2, supplemento 1, pp. 66-71). Palermo: G.R.I.M. Department of mathematics, University of Palermo ISSN on-line 1592-4424. First edition, May 2011.

INTERNATIONAL MEETING ABSTRACTS PUBLISHED IN ISI JOURNAL

1. "Studi Citogenetici nella Macroglobulinemia di Waldenström: analisi del cariotipo e scambi fra cromatidi fratelli". F. Caradonna, G. Barbata, G. Granata, R. Marcenò & P. Carbone. Atti Società Italiana di Ematologia (SIE), pag. 328, Verona 1991; pubblicato inoltre su Haematologica (Impact factor 3,216), Vol 76, suppl. 3, Giugno 1991.
2. "Riarrangiamento del gene IL4 nella Macroglobulinemia di Waldenström". F. Caradonna, G. Barbata, G. Granata and P. Carbone. Atti Associazione di Biologia Cellulare e del Differenziamento (ABCD), Cefalù (PA) 1991; pubblicato inoltre su European Journal of Cell Biology (Impact factor 2,244), suppl. 35, 55, 17(43), 1991.
3. "Chromosomal instability and DNA hypomethylation by arsenic". Sciandrello G, Caradonna F, Catanzaro I. and Barbata G. Atti del congresso internazionale dell'Associazione Europea di Citogenetica (ECA), Bologna, 6-9 Settembre 2003; pubblicato anche su Annàles de Genetìque (Impact factor: 0,636) vol. 46, 2-3: 280, 2003.
4. "Persistent genomic instability by arsenic exposure in V79 Chinese hamster cells". SCIANDRELLO G, MAURO M, CATANZARO I, CARADONNA F., BARBATA G.. 36th Annual Meeting of the European Environmental Mutagen Society. Praga, 2-6 July 2006. Pubblicato anche in: "From Genes to Molecular Epidemiology"; selezionato per la presentazione orale.
5. "Evaluation of DNA damage in murine fibroblasts treated with cigarette smoke condensate". ANDREOLI C, FLAMMA F., MERCATI F., MARTINO A., CARADONNA F., MAURO M., SCIANDRELLO G. 36th Annual Meeting of the European Environmental Mutagen Society. Praga, 2-6 July 2006. Pubblicato anche in: "From Genes to Molecular Epidemiology".
6. "Long-term exposure to submicromolar arsenite induces bypass of the spindle assembly checkpoint in mammalian cells". Maurizio Mauro, Joanna LESZCZYNSKA, Giusi BARBATA, Fabio Caradonna, Giulia Sciandrello, Toby ROSSMAN In: Environmental and Molecular Mutagenesis (Impact factor 2,36). 39th Annual Meeting of Environmental Mutagen Society. Puerto Rico. 18-22 October 2008. (vol. 49, pp. 548). ISBN/ISSN: 0893-6692. DANVERS, MA: Wiley-Blackwell (UNITED STATES). M. Mauro ha ricevuto un "EMS Student and New Investigator Travel Award-2008" per questo contributo.

INTERNATIONAL AND NATIONAL MEETING ABSTRACTS

1. "Sister Chromatid Exchanges, Endoreduplicated cells and chromosome rearrangements in Waldenstrom's Macroglobulinemia". P. Carbone, G. Barbata, F. Caradonna, F. Bellanca, M.C. Giglio, A. Santoro, P. Tumminello and G. Granata. Atti Associazione Genetica Italiana (AGI), Vol. XXXIII, pagg. 55-56, Padova, 1987.

2. "Homogenously staining regions (HSR) and other chromosomal changes in Waldenström's Macroglobulinemia". P. Carbone, F. Caradonna, G. Granata and G. Barbata. Atti Associazione Genetica Italiana (AGI) , Vol. XXXVII, pagg. 255-256, Alghero (SS) 1991.
3. "Analisi del gene IL4 mediante Polimerase Chain Reaction nella Macroglobulinemia di Waldenström". F. Caradonna, G. Barbata, G. Granata, D. Costa, P. Carbone. Atti VIII congresso nazionale FISME (Federazione Italiana per lo Studio delle Malattie Ereditarie", Sorrento 1993; pubblicato anche su Patologica (Impact factor:) 85: 162-163, 1993.
4. "Molecular analysis of the IL4 gene in Waldenström's Macroglobulinemia ". Fabio Caradonna, Giuseppina Granata e Giusi Barbata. Atti del congresso internazionale "Miami Biotechnology Symposium on Cancer Genetics", Montecarlo dal 17 al 20 Novembre 1994 (Abstract sottoposto a referees).
5. "Cytotoxicity, mutation and SCE in a MMS-resistant clone". G. Sciandrello, G. Granata, F. Caradonna and G. Barbata. Atti del III congresso nazionale della Società Italiana di Mutagenesi Ambientale (SIMA), Viterbo dal 10 al 13 Ottobre 1994.
6. "A variant Chinese hamster cell line with increased susceptibility to methylnitrosourea and 6-thioguanine". G. Sciandrello, F. Caradonna, C. Alessandro, G. Caronia and G. Barbata. Atti del Congresso Internazionale “26th European Environmental Mutagen Society Annual Meeting”, Roma 3-7 Settembre 1996.
7. "Telomere lenght in B-cell diseases". G. Barbata, F. Caradonna, L. Cocciadiferro, R. Marcenò, G. Sciandrello. Atti XLII congresso nazionale congiunto AGI-SIBBM-ABCD , Riccione 2-5 Ottobre 1996.
8. "Instabilità genomica rilevata per AP-Fingerprinting in cellule trasformate di Hamster chinese". G. Sciandrello, F. Caradonna, G. Barbata. Atti convegno congiunto AGI-SIMA , Orvieto (TR) 23-26 Settembre 1997.
9. "Mutazioni somatiche in cellule tumorali di pazienti con mieloma multiplo". F. Caradonna, I Alessandro, L. Cocciadiferro, G. Sciandrello, G. Barbata. Atti I congresso nazionale Società Italiana di Genetica Umana (SIGU) , Spoleto 30 Settembre – 2 Ottobre 1998.
10. "Centrosome amplification originates chromosome instability and apoptosis in a trasformed chinese Hamster cell line". G. Sciandrello, F. Caradonna, G. Barbata. Atti congresso nazionale della Società Italiana di Mutagenesi Ambientale (SIMA) Cortona, 7-10 Ottobre 1998.
11. "Preliminary results of molecular diversity and N_2 fixation efficiency of rhizobia isolated from Spanish broom (Spartium junceum L)". Quatrini P, Scaglione G, Lippi D, De Paolis MR, Caradonna F, Cardinale M and Puglia AM. 6th Symposium on Bacterial Genetics and Ecology (BAGECO 6), Firenze 20-24 Giugno 1999.
12. "Diversità molecolare di rizobi isolati dalla ginestra di Spagna (Spartium junceum L) ". Scaglione G, Lippi D, De Paolis MR, Caradonna F, Cardinale M, Puglia AM and Quatrini P. Atti 1° congresso Federazione Italiana Scienza della Vita (FISV, Riva del Garda 2-6 Ottobre 1999).
13. “DNA hypermethylaytion affects sensitivity to 6-thioguanine”. Sciandrello G, Caradonna F, Barbata G. Atti del congresso nazionale della Società Italiana di Mutagenesi Ambientale (SIMA), Cortona, 6-8 Ottobre 1999.
14. “Isolation and characterization of actinomycetes able to produce antibiotics and/or degrading enzymes”. Misuraca F., Cappelletti E.M., Orecchio S., Sportaro A., Caradonna F, Campisi E., Ferraro C. Atti del congresso internazionale "Biotechnology 2000", Berlino 3-8 Settembre 2000 (Abstract sottoposto a referees).
15. “Bradirizobi simbionti di Spartium junceum in Sicilia”. Cardinale M, Quatrini P, Scaglione G, Caradonna F, , Puglia AM. Atti 2° congresso Federazione Italiana Scienza della Vita (FISV, Riva del Garda, 30 settembre – 4 Ottobre 2000).
16. “Early arsenic-induced chromosome malsegregation in mammalian cells”. Sciandrello G, Barbaro R., Caradonna F, Barbata G. Atti del congresso nazionale della Società Italiana di Mutagenesi Ambientale (SIMA), Palermo, 18-21 Ottobre 2000.
17. “Preliminary results of cytogenetic biomonitoring of workers occupationally exposed to ionizing radiation”. Chifari N., Sciandrello G, Caradonna F, Barbata G. Atti del congresso nazionale della Società Italiana di Mutagenesi Ambientale (SIMA), Palermo, 18-21 Ottobre 2000.
18. “Instabilità indotta da limonene in cellule V79 di Hamster chinese”. Giulia Sciandrello, Maurizio Mauro, Fabio Caradonna, Giusi Barbata. Atti del 4° congresso Federazione Scienza della vita (FISV, Riva del Garda, 20-23 Settembre 2002).
19. “Long-term effects of arsenic exposure on cultured mammalian cells”. Giulia Sciandrello, Fabio Caradonna, Irene Catanzaro, Maurizio Mauro and Giusi Barbata. Atti del 5° congresso Federazione Scienza della vita, pag. 85 (FISV, Rimini, 10-13 Ottobre 2003).
20. “Acrylamide: a probable catalytic topoisomerase II inhibitor”. I. Catanzaro, Caradonna F., G. Barbata, G. Sciandrello. Proceedings of 6° symposium of Federazione Italiana Scienza della vita (FISV, Italian federation of life sciences). Riva del Garda, 30 Settembre-3 Ottobre 2004. (pp. 434). Winner of the best poster of Società Italiana di Mutagenesi Ambientale (SIMA).
21. “PTHrP(38-94)-amide is a DNA-binding factor: cytogenetic and molecular evidence and biological effects on normal and neoplastic human breast cells”. C. Polipo, R. Sirchia, M.S. Rocca, Caradonna F., G. Barbata, C. Luparello. Proceedings of 6° symposium of Federazione Scienza della vita (FISV Italian federation of life sciences). Riva del Garda, 30 Settembre-3 Ottobre 2004. (pp. 297-298).
22. “Antagonist effects of Acrylamide on clastogenity of VP16”. I. Catanzaro, M. Mauro, Caradonna F., G. Barbata, G. Sciandrello. 35th Annual Meeting of the European Enviromental Mutagen Society. Isola di Kos (Grecia) 3 - 7 Luglio 2005. (pp. 107). Communication number P88.
23. “Telomerase activity in cells with arsenic-induced genomic instability”. M. Mauro, Caradonna F., V. Schirò, G. Barbata E G. Sciandrello. Proceedings of 7° symposium of Federazione Scienza della vita (FISV Italian federation of life sciences). Riva del Garda, 22-25 Settembre 2005. (pp. Poster D6.6).
24. “Metilazione del DNA in Artrite Reumatoide”. Caradonna F., G. Sciandrello, G. Barbata. Proceedings of 8° symposium of SIGU (Italian society of human genetics). Domus de Maria (CA) 28 Settembre-1°Otttobre 2005. (pp. 150).
25. “Telomere dysfunction in cells with arsenic-induced genomic instability”. M. Mauro, Caradonna F., G. Barbata G. Sciandrello. 2nd EU-US DNA Repair Meeting. Erice (TP) 28 Novembre - 3 Dicembre 2005.
26. “Studio sull'induzione di danno al DNA, micronuclei ed alterazioni del ciclo cellulare da condensato di sigaretta”. C. Andreoli, F. Mercati, V. Marguglio, F. Flamma, A. Martino, A. Bassi, Caradonna F., Sciandrello G. Proceedings of 14° symposium of S.I.TOX. (Italian Society of toxicology) 6-9 febbraio, 2006.
27. “Early and late effects of arsenic exposure in mammalian cells”. Sciandrello G, Mauro M, Catanzaro I, Caradonna F., Barbata G. 9th International Symposium on Metal Ions in Biology and Medicine. Lisbona, 21-24 May 2006. <u>ORAL COMMUNICATION AS INVITED SPEAKER.</u>

28. “Biochemical approaches to characterize targets responsible for acrylamide-induced inhibition of topoisomerase II”. Mauro M, Catanzaro I, Caradonna F., Barbata G, Sciandrello G. Proceedings of 8° symposium of FISV (Italian federation of life sciences). Sett.-ott. 2006.
29. “Polimorfismi del gene CYP2A6 e dipendenza dal fumo in un gruppo di soggetti della Sicilia Occidentale”. Caradonna F., Mauro M, Catanzaro I, Sciandrello G, Bellavia D, Agliastro R, Barbata G. Proceedings of 9° symposium of SIGU (Italian society of human genetics). Nov. 2006.
30. “SNP variation in the bitter taste TAS2R38 gene evaluated in student populations of several italian universities and isolates”. Maura Carrai, Caradonna F., Irene Catanzaro, Giulia Sciandrello, Roberto Barale. (2007). Proceedings of Third International meeting on Genetics of the complex diseases and isolated populations. Turin, 26-29 Maggio, 2007.
31. “Variability in bitter taste perception and correlation with SNP in TAS2R38 gene in different student populations”. M. Carrai, Fabio Caradonna F. Bottari. Proceedings of symposium of Federazione Scienza della Vita (FISV Italian Federation of life sciences). Riva del Garda (TN): 26-29 Settembre 2007 (pp. D07.01)
32. “Polimorfismi dei geni CYP2A6 e CYP2E1 in relazione a stili di vita in una popolazione della Sicilia Centro-Occidentale”. “F. Bray, R. Botta, I. Catanzaro, M. Mauro, M. Saverini, G. Barbata, G. Sciandrello, F. Caradonna (2008). Proceedings of 11° symposium of SIGU (Italian society of human genetics) Genova. 23-25 Novembre 2008 (pp. 332).
33. “Persistent dysregulation of DNA methylation in cells with arsenic-induced genomic instability”. M. Mauro, G. Sciandrello, G. Barbata, F. Caradonna, M. Saverini, I. Catanzaro, J. Leszczynska, C.B. Klein. In Proceedings of 10th International Conference on Environmental Mutagens (ICEM), 20-25 Agosto 2009.
34. “CYP2E1 VNTR polymorphisms and hepatocarcinoma: a gender-specific correlation”. Catanzaro Irene, Flores Naselli, Antonio Giacalone, Giuseppe Montalto, Lorenzo Marasà, Giulia Sciandrello, Fabio Caradonna. Proceedings of 6th SIBBM Seminar - Frontiers in Molecular Biology organizzato dalla Società di Biofisica e Biologia Molecolare a Padova dal 3 al 5 giugno 2010.
35. “Variable Number of Tandem Repeats (VNTR) gene polymorphism of CYP2E1 in patients with pancreatic adenocarcinoma”. Marasà L., Montalto G., Giacalone A., Catanzaro I., Naselli F., Giannitrapani L., Marasà S., Gangeri M., Caradonna F.. Proceedings of 34° symposium of Società Italiana per lo studio del pancreas (AISP). Peschiera del Garda (VR), 7-9 Ottobre 2010.
36. “Bitter Taste genetics and food preference in Italian population”. Roberto Barale, Maura Carrai, Federico Canzian, Salvatore Saccone, Concetta Federico, Salvatore Motta, Fabio Caradonna, Irene Catanzaro, Daniele Campa. Proceedings of IV Congress of the International Society of Nutrigenetics / Nutrigenomics (ISNN). Pamplona (ES), 18-20 Novembre 2010.
37. “Allelic variants of CYP2E1 gene in hepatocarcinoma patients and in hepatic tumor cell lines”. Irene Catanzaro, Antonio Giacalone, Flores Naselli, Lorenzo Marasà, Marghereth Saverini, Isabella Demma, Fabio Caradonna, Lydia Giannitrapani, Giuseppe Montalto. Accettato per la presentazione al 46° congresso internazionale EASL (European Association for the study of the liver), Berlino 2011.
38. "PTHrP isoform expression in adipo- and osteo-differentiating human mesenchymal stem cells” Longo A, Catanzaro I, Caradonna F, Tobiasch E, Luparello C. Proceedings of symposium of ABCD (Association of Cellular and developmental biology). Ravenna, 8-10 Settembre 2011, p. 91.
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41. The expression of PTHrP isoforms in differentiating human fat-derived mesenchymal stem cells. Longo, A., Catanzaro, I., Caradonna, F., Tobiasch, E., & Luparello, C. (2012). Epigenetics in Development and Disease. 8th SIBBM Seminar - Frontiers in Molecular Biology. Palermo, 24-26 Maggio 2012.
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44. Pro-apoptotic activity of the phytochemical Indicaxanthin on colorectal carcinoma cells (Caco-2) and epigenetic CpG demethylation of the promoter and reactivation of the expression of p16. Naselli, F., Modica, M., Attanzio, A., Caradonna, F., Gentile, C., Tesoriere, L., et al. (2012). Proceedings of 56th meeting of Italian Society of Biochemistry. Milano. SELECTED AS ORAL COMMUNICATION.

ATTIVITA' SCIENTIFICHE

SCIENTIFIC AND RESEARCH ACTIVITY

1987-1995: He’s involved in a research project entitled “Cytogenetic studies on human hemopathy), supervised by dr. Carbone then by dr. Barbata from Education and Sciences Ministry (ex quota 60%). At the moment he’s involved in a project entitled “Cytogenetic and molecular studies on mammalian cells” (proposed by prof. G. BARBATA).

1989: He obtains patent cultures for the use of cloned human DNA in procariotic organisms by the DNAX Research Institute of Molecular and Cellular Biology, Palo Alto (California, USA) thanks to some scientific recommendations.

1990: He's engaged in a continuous and diligent activity of research at the Molecular Biology laboratory (Group Leader: Prof. O. FASANO) from the European Molecular Biology Laboratory (EMBL) in Heidelberg (Germany), focusing on a genome map of human interleukin 4 gene.

1991: He's member of Italian Genetics Association (AGI).

1992: He wins a fellowship from Regional Health Councillorship to carry out researches and study on Cytogenetic abnormalities in Chronic Myeloid Leukemia (Scientific Group Leader: prof. Granata).
He takes part to a course: "Use of synthetic oligonucleotide in Oncology: from molecular diagnostics to the control of cell functions", organised by the International School of Oncology and Experimental Medicine, Rome.
He obtains from USL n. 60 a temporary professional task to carry out some Haematologic analysis connected to an health research project. (Group Leader: dr. R. Marcenò).
He passes the examination for a three-year fellowship from Italian Association for Cancer Research.

1993: He wins a post doctorate fellowship at the Cellular and Developmental Biology Department, University of Palermo.

1994: After passing the competitive examinations, he is on the permanent staff as technical assistant at the Faculty of Science, University of Palermo; later he obtains leave in order to finish his post-doctorate fellowship.

1998: After presenting his curriculum vitae, he obtains from the University Senate of Palermo an exception of the regulation in force so as to participate actively to the ex quota 60% research projects. So he participates to the research project (ex quota 60%) entitled Genomic instability in mammalian cultured cells" proposed by prof. G. Barbata, Genetic professor, University of Palermo.
He's member of Società Italiana di Genetica Umana (SIGU) (Italian Society of Human Genetics).

1998-2002: He participates to the research project (ex quota 60%) entitled: Indagini molecolari, mediante Polymerase Chain Reaction, sul locus HLA DRB1 in pazienti con Artrite Reumatoide progressiva" (Molecular Research, by Polymerase Chain Reaction, on HLA DRB1 locus, in patients affected by progressive rheumatoid arthritis), proposed by prof. A Pappalardo, Rheumatology Professor, Faculty of Medicine and Surgery, University of Palermo.

2005: He begin your work as Researcher in Department of cellular and developmental biology (University of Palermo).

2006: He participates to the 8th International course on "Molecular Cytogenetics and DNA Array" (Directors: prof. M. ROCCHI, prof. F. MITELMAN, prof. B YOUNG), organized by the European Genetic Foundation and held in Bertinoro (Forlì-Cesena) from the 24th to the 28th of September 2006.

2009: He's engaged by Ministero dell'Istruzione e dell'Università e della Ricerca (MIUR) as referee of PRIN project (PRIN: highly strategic national projects).

He's engaged by Ministero dell'Istruzione e dell'Università e della Ricerca (MIUR) as referee of FIRB project (FIRB: Future in Research).

2010: He participates to the scientific seminar: "DHPLC: use and evolution" organized by"Istituto Oncologico del Mediterraneo" in Viagrande (CT) 27-4-2010.

2011: He's engaged by Sicilian Regional Health Councillorship as referee of strategic regional projects being included in the Long list" of reviewer.

2012- He's engaged by Ministero dell'Istruzione e dell'Università e della Ricerca (MIUR) as referee of national industrial projects

He joined in editorial board of Journal of Carcinogenesis & Mutagenesis (International journal, IF: 5,4)

AMBITI DI RICERCA

RESEARCH TOPICS

Conventional and molecular cytogenetics

Mutagenesis and carcinogenesis tests and assays

Polymorphisms of metabolism enzyme genes in relationship to life-styles

DNA methylation of genomes and genes in relationship to genomic instability

Nutrigenomic tests of small food molecules suspected to be epigenetic modulators