Curriculum vitae of Dr. Sergio Giannattasio

Present position: CNR Senior scientist (Primo ricercatore) at the Institute of Biomembranes, Bioenergetics and Molecular Biotechnologies (IBIOM), National Research Council of Italy (CNR), Bari (Italy).
Date of Birth: July 1st, 1958
Education: Degree in Chemistry with honor at University of Bari, Italy in 1982.

ERC panel descriptor: LS3

Bibliometrics:

	Google Scholar	*Scopus*	*WoS*
Citations	1811	1348	1274
h-index	27	20	20

Positions
2018-24 Awarded with the National Scientific Qualification (ASN) as full professor in General Biochemistry (BIO10).
2014-20 Awarded with the National Scientific Qualification (ASN) as full professor in Applied Biology (BIO13).
2001-at present CNR senior scientist at Istituto di Biomembrane, Bioenergetica e Biotecnologie Molecolari (IBIOM, formerly IBBE and *Centro di Studio sui Mitocondri e Metabolismo Energetico*, CSMME)
1998-2001 CNR research assistant at CSMME
1990-1998 CNR contract research assistant at CSMME
1984-1989 CNR contract research assistant at CSMME
1983 Research fellow at the Istituto di Chimica Biologica of Bari University
October 2010 *Visiting senior scientist* at the Department of Biological Sciences, The University of New Orleans, New Orleans, LA, USA
August 2008 *Visiting senior scientist* at the Department of Biochemistry and Molecular Biology, SUNY Upstate Medical University, Syracuse, NY, USA
May 2005 *Visiting senior scientist* at the Departemento de Biologia, Universidade do Minho, Braga, Portogallo.
August 2005 *Visiting senior scientist* at the Department of Molecular Biology, University of Texas Southwestern Medical Center at Dallas, Texas, USA.
2003-2004 *Visiting senior scientist* on leave at the Department of Molecular Biology, University of Texas Southwestern Medical Center at Dallas, Texas, USA
March-May 1986, May-July 1989, June-July 1996 Guest scientist at the Biochemisches Institut der Universität Zürich, Zurich, Svizzera
December 1995 Visiting research fellow at the Istituto di Clinica Pediatrica of Turin University.
February 1991 and March 1993 Visiting research fellow at the Dipartimento di Scienze Biomediche e Oncologia Umana, Turin University
He is member of CNR panel of Project Managing Experts and project reviewer for the Italian Ministery fo Education, University and Research, National Science Foundation (USA), Research Foundation Flanders (B). Since June 2009 he is member of the Scientific Board of CNR - IBIOM. 2 2

Project leader
2017-2019 Bilateral project Ministry of Sviences (MoS) of Montenegro and CNR: "Mitochondrial dysfunction in cancer growth, drug resistance and chemotherapy induced neuropathy
2015-2016 Research Unit CNR–IBBE, APQ Regione Puglia, Networks of Public Research Laboratories, Project "BioNet – PTP, Biodiversity for the exploitation and safety of Apulian typical food productions"
2005-2008 Interreg III/A programme, *Project* "Trasferimento Innovazione ed Organizzazione nella Ricerca, nella Cultura, nell'Ambiente e nella Sanità" (TIORCAS)

(*https://serviziweb.unimol.it/pls/unimol/consultazione.mostra_pagina?id_pagina=3075*) Regione Molise-Montenegro, *Activity* "Prevenzione di Malattie Genetiche Ereditarie";
1999-2002 FP 4 European Commission Project INCO-Copernicus "Molecular genetic testing in phenylketonuria: a model to assess the quality control system for monogenic disease" (MOLGENT, *www.geneticahumana.lt/molgent.htm*);
1999 CNR Bilateral Project between CSMME and Institute for Medical Radiobiology Zurich University – PSI, Villigen (CH) "Mitochondrial biogenesis";
1997-1998 CNR Bilateral Project between CSMME and Human Genetics Center, Vilnius University, Vilnius (Lithuania) "Genetic homogeneity and heterogeneity in the molecular basis of phenylketonuria";
1993-1999 CNR CSMME research activity # 07 "Nucleus-cytoplasm-mitochondria cross-talk".

Research activity
1983 Active metabolite transport across the inner mitochondrial membrane.
1984-1998 Mitochondrial biogenesis; nuclear-encoded mitochondrial protein transport; structure determinants of mitochondrial aspartate aminotransferase intracellular localization; aspartate aminotransferase structure-function relations; protein engineering of B6-dependent protein catalysts.
***1990*-2008** Studies on the molecular basis of inherited diseases (phenylketonuria, 21-hydroxylase deficiency, cystic fibrosis, Wilson disease, primary cardiomyopathies)
1998-at present Programmed cell death in yeast *Saccharomyces cerevisiae*; mitochondrial role in programmed cell death; nucleus-mitochondria cross-talk in *Saccharomyces cerevisiae*; rat cerebellar granule cell apoptosis; yeast as a model to study BRCA2 oncosuppressive role in tumorigenesis, metabolic reprogramming and CIRV (+)RNA p36 protein function in virus replication.

His research activity is documented by:
• 72 articles on international peer-reviewed journals;
• 17 articles on books and non-JCR journals;
• 10 articles on national non-JCR journals
• 130 congress proceedings.
He was invited speaker in national and international scientific meetings and held seminars in several scientific institutions in Italy and abroad.
He organized theoretical/practical courses on protein engineering, molecular biology techniques, molecular genetics in clinical practice and cooperated in organization of scientific meetings.

Member of the Editorial board of:
- FEMS Yeast Research *(Oxford Academic)*
- Frontiers in Oncology *(Frontiers Media SA)*
- Microbial Cell *(Shared Science Publishers OG)*
- Research in Cell Biology *(Scientific and Academic Publishing)*
- Bioenergetics series *(Aracne editrice intl S.r.l.)*

Ad-hoc peer-reviewer for high impact factor scientific journals

Guest Editor
1. *Oxidative Medicine and Cellular Longevity*. Special Issue "Yeast Stress, Aging, and Death" (2013) 2013 http://dx.doi.org/10.1155/2013/684395 (Eds Cristina Mazzoni, Sergio Giannattasio, Joris Winderickx, and Paula Ludovico)
2. *Frontiers in Oncology*, section Molecular and Cellular Oncology, eBook. Giannattasio, S., Mazzoni, C., Mirisola, M. G., eds. (2018). Cell Stress, Metabolic Reprogramming, and Cancer. Lausanne: Frontiers Media. doi: 10.3389/978-2-88945-565-2
3. *FEMS Yeast Research*. Special Issue "Yeast Ageing and Cell death" (Eds Sergio Giannattasio and Cristina Mazzoni), *in press*

Project reviewer
2012-today Member of Research Reviewer Board for Research Programmes and Products del MIUR.

2012-today Member of “Albo degli Esperti FAR” del MIUR (D.D. 30/Ric./2012);
2012 Project reviewer per la Research Foundation - Flanders (Fonds Wetenschappelijk Onderzoek - Vlaanderen, FWO, Belgio).
2009 Project reviewer per la National Science Foundation (NSF) (proposal No.0950363, PIN: 081904).

Teaching activity
2014-**now** University of Bari “Aldo Moro”, School of Medicine, Degree course Bari English Medical Curriculum (BEMC), lecture courses “Chemistry and Introductory Biochemistry” and “Molecular Biology”.
03/2010 - 09/2010 University of Molise, Termoli, Faculty of Medicine and Surgery, Degree course Nursery, lecture course Chemistry and Biochemistry.
10/2009 - 02/2010 University of Molise, Termoli, Faculty of Medicine and Surgery, Degree course Nursery, lecture course Biochemistry
03/2009 - 09/2009 University of Molise, Termoli, Faculty of Medicine and Surgery, Degree course Nursery, lecture course Biochemistry
04/2007 - 09/2007 University of Calabria, Arcavacata di Rende (CS), Faculty of Farmacy and Nutrition and Health Sciences, Degree Course in Drug Sales Representative, Lecture Course in Industrial Biochemistry.
10/1997 - 10/1998 University of Molise, Agricultural Faculty, Lecture course Enzymology and Food Biochemistry, integrative course in Protein Engineering and Site-Directed Mutragenesis.
10/1995 - 10/1996 University of Molise, Agricultural Faculty, Lecture course Enzymology, integrative course in Site-Directed Mutragenesis and enzyme activity.
10/1994 - 10/1995 University of Molise, Agricultural Faculty, Lecture course of General Biochemstry, integrative course in Protein engineering.

He has tutored PhD students in PhD school of University of Bari, Molise and Salento and experimental thesis students in undergraduate Biological Sciences School, University of Bari.

Congress organization
2018 Member of the scientific committee of 13th International Meeting on Yeast Ageing and Apoptosis (IMYA), Leuven, 26-39 August 2018
2017 Chair of the 12th International Meeting on Yeast Apoptosis (IMYA), Bari, 14-18 Maggio 2017
2016 Chair of the Meeting "Cell Stress: Survival and Apoptosis" of the “Associazione di Biologia Cellulare e del Differenziamento” (ABCD), Bari, 9-10 settembre 2016.
2015 Member of the scientific committee of the 11th International Meeting on Yeast Apoptosis, September 29th-October 3rd 2015, Porto (Portugal)
2015 Member of the scientific committee of the 27th International Congress of Yeast Genetics and Molecular Biology, September 6-11, 2015, Levico (TN), (Italy)
2013-2016 Co-Chair Meeting "Cell Stress: Survival and Apoptosis" of the “Associazione di Biologia Cellulare e del Differenziamento” (ABCD).
2013 Chairman of the Parallel Session “Cell Stress: Survival and Apoptosis” in the National ABCD Congress 2013, Ravenna. 4
2013-14 Scientific Advisory board of the 10th International Meeting on Yeast Apoptosis (IMYAX), 14-18 maggio 2014, Gothenburg, Sweden. 4
2012 Congress chair of 9th International Meeting on Yeast Apoptosis, 16-20 settembre 2012, Rome, Italy.
2000 5th Baltic Congress of Laboratory Medicine, Session 3. Molecular genetic testing and quality assessment del, Vilnius (Lithuania).
1996 Scientific secretariat of the Congress "Basi Molecolari in Patologia Umana: Dai geni, al meccanismo, alla terapia", Bari, December 1996
1994 Scientific secretariat of the Congress "Recenti progressi sulle basi molecolari in patologia umana", Bari, November 1994.

Awards
2002-03 Research supervisor of the project “Characterization of the Molecular Basis of Phenylketonuria in Italy. Identification of Phenylalanine hydroxylase gene Exon 12 R408W mutation”, carried out by three

students of *Liceo Classico "Socrate"* of Bari, winner of 2002 edition of FAST/EU "I Giovani e le Scienze" award, exhibited at the *2003 Intel - International Science & Engineering Fair*, Cleveland, Ohio (USA).
2001 SIBioC-BIO-RAD Prize for studies on "Molecular diagnosis of phenylketonuria: a model to implement a quality control system for monogenic disease".
2000 SIBioC 2000 Prize for studies on "A survey on molecular biology in clinical laboratoratories in Apulia Region"
1997 "Fondazione Gaetano Quagliariello" Award for his studies on the molecular basis of inherited diseases
1994 SIBioC (Italian Society of Clinical Biochemistry and Molecular Biology) '94 Prize for research "Mutation detection by RNA single strand conformation polymorphism (rSSCP)"
1987 Classed second for the S.I.B. (Italian Society for Biochemistry and Molecular Biology) Medal.

Dr. Giannattasio is a member of the following scientific societies:
Italian Society of General Microbiology and Microbial Biotechnologies (SIMGBM)
Italian Association of Cell and Differentiation Biology (ABCD)
Italian Society of Biochemistry and Molecular Biology (SIB)
Italian Society of Biophysics and Molecular Biology (SIBBM)
European Cell Death Organization (ECDO)
Italian Environmental Mutagen Society

List of publications on JCR journals

1. **Giannattasio S**, Mazzoni C. (2018) Editorial: Yeast cell aging and death. FEMS Yeast Res. 18(8). doi: 10.1093/femsyr/foy083.
2. Guaragnella N, Coyne LP, Chen XJ, **Giannattasio S.** (2918) Mitochondria-cytosol-nucleus crosstalk: learning from *Saccharomyces cerevisiae*. FEMS Yeast Res. 2018 18(8). doi: 10.1093/femsyr/foy088.
3. **Giannattasio S**, Mirisola MG, Mazzoni C. (2018) Editorial: Cell Stress, Metabolic Reprogramming, and Cancer. Front Oncol. 8:236. doi: 10.3389/fonc.2018.00236. eCollection 2018.
4. Punzi G, Porcelli V, Ruggiu M, Hossain MF, Menga A, Scarcia P, Castegna A, Gorgoglione R, Pierri CL, Laera L, Lasorsa FM, Paradies E, Pisano I, Marobbio CMT, Lamantea E, Ghezzi D, Tiranti V, **Giannattasio S**, Donati MA, Guerrini R, Palmieri L, Palmieri F, De Grassi A. (2018) SLC25A10 biallelic mutations in intractable epileptic encephalopathy with complex I deficiency. Hum Mol Genet. 27(3):499-504. doi: 10.1093/hmg/ddx419.
5. Guaragnella N, Stirpe M, Burhans W, Côrte-Real M, Gourlay C, Ludovico P, Madeo F, Petranovic D, Winderickx J, Mazzoni C, **Giannattasio S.** (2018) New perspectives from South-Y-East, not all about death. A report of the 12th lnternational Meeting on Yeast Apoptosis in Bari, Italy, May 14th-18th, 2017. Microb Cell. Jan 16;5(2):112-115.
6. Carmona-Gutierrez D, Bauer MA, Zimmermann A, Aguilera A, Austriaco N, Ayscough K, Balzan R, Bar-Nun S, Barrientos A, Belenky P, Blondel M, Braun RJ, Breitenbach M, Burhans WC, Büttner S, Cavalieri D, Chang M, Cooper KF, Côrte-Real M, Costa V, Cullin C, Dawes I, Dengjel J, Dickman MB, Eisenberg T, Fahrenkrog B, Fasel N, Fröhlich KU, Gargouri A, **Giannattasio S**, Goffrini P, Gourlay CW, Grant CM, Greenwood MT, Guaragnella N, Heger T, Heinisch J, Herker E, Herrmann JM, Hofer S, Jiménez-Ruiz A, Jungwirth H, Kainz K, Kontoyiannis DP, Ludovico P, Manon S, Martegani E, Mazzoni C, Megeney LA, Meisinger C, Nielsen J, Nyström T, Osiewacz HD, Outeiro TF, Park HO, Pendl T, Petranovic D, Picot S, Polčic P, Powers T, Ramsdale M, Rinnerthaler M, Rockenfeller P, Ruckenstuhl C, Schaffrath R, Segovia M, Severin FF, Sharon A, Sigrist SJ, Sommer-Ruck C, Sousa MJ, Thevelein JM, Thevissen K, Titorenko V, Toledano MB, Tuite M, Vögtle FN, Westermann B, Winderickx J, Wissing S, Wölfl S, Zhang ZJ, Zhao RY, Zhou B, Galluzzi L, Kroemer G, Madeo F. (2018) Guidelines and recommendations on yeast cell death nomenclature. Microb Cell. Jan 1;5(1):4-31.
7. Guerra F, Guaragnella N, Arbini AA, Bucci C, **Giannattasio S**, Moro L (2017) Mitochondrial Dysfunction: a Novel Potential Driver of Epithelial-to-Mesenchymal Transition in Cancer. *Frontiers in Oncology* 7, 295.
8. Rubino L, Guaragnella N, **Giannattasio S.** (2017) Heterologous expression of carnation Italian ringspot virus p36 protein enhances necrotic cell death in response to acetic acid in Saccharomyces cerevisiae. *Mech Ageing Dev.* 161(Pt B):255-261. doi: 10.1016/j.mad.2016.09.004.

9. Laera L, Guaragnella N, Ždralević M, Marzulli D, Liu Z, Giannattasio S. (2016) The transcription factors ADR1 or CAT8 are required for RTG pathway activation and evasion from yeast acetic acid-induced programmed cell death in raffinose. *Microb Cell.* 3(12):621-631.
10. Moro L, Guaragnella N, **Giannattasio S** (2015) Silencing of BRCA2 to Identify Novel BRCA2-regulated Biological Functions in Cultured Human Cells. *J. Vis. Exp.* (102), doi: 10.3791/52849.
11. Longo V, Ždralević M, Guaragnella N, **Giannattasio S**, Zolla L, Timperio AM. (2015) Proteome and metabolome profiling of wild-type and YCA1-knock-out yeast cells during acetic acid-induced programmed cell death. J Proteomics 128:173-188.
12. Ždralević M, Longo V, Guaragnella N, **Giannattasio S**, Timperio AM and Zolla L (2015) Differential proteome-metabolome profiling of YCA1-knock-out and wild type cells reveals novel metabolic pathways and cellular processes dependent on the yeast metacaspase. Mol Biosyst, 11:1573-83.
13. Ždralević M., Guaragnella N. and **Giannattasio S**. (2015) Yeast as a tool to study mitochondrial retrograde pathway en route to cell stress response Methods Mol Biol, 1265:321-31.
14. Guaragnella N, Palermo V, Galli A, Moro L, Mazzoni C, **Giannattasio S** (2014). The expanding role of yeast in cancer research and diagnosis: insights into the function of the oncosuppressors p53 and BRCA1/2. FEMS Yeast Res., 14, 2-16.
15. Guaragnella N, **Giannattasio S**, Moro L. (2014) Mitochondrial dysfunction in cancer chemoresistance. Biochem. Pharmacol. 19, 1330-1341.
16. Guaragnella N, Marra E, Galli A, Moro L, **Giannattasio S**. (2014) Silencing of BRCA2 decreases anoikis and heterologous expression sensitizes yeast cells to acetic acid-induced programmed cell death. Apoptosis. 19, 1330-41
17. Mazzoni C, **Giannattasio S**, Winderickx J, Ludovico P. (2013) Yeast stress, aging, and death. Oxid Med Cell Longev.;2013:684395.
18. Guaragnella N, Palermo V, Burhans WC, Gourlay CW, Ludovico P, Madeo F, **Giannattasio S**, Mazzoni C. (2013) Yeast between life and death: a summary of the Ninth International Meeting on Yeast Apoptosis in Rome, Italy, 17-20 September 2012. Cell Death Differ. 20, 1281-1283.
19. **Giannattasio S**, Guaragnella N, Zdralević M, Marra E. (2013) Molecular mechanisms of Saccharomyces cerevisiae stress adaptation and programmed cell death in response to acetic acid. Front Microbiol. 2013;4:33.
20. Guaragnella N, Ždralević M, Lattanzio P, Marzulli D, Pracheil T, Liu Z, Passarella S, Marra E, **Giannattasio S** (2013). Yeast growth in raffinose results in resistance to acetic-acid induced programmed cell death mostly due to the activation of themitochondrial retrograde pathway. Biochim. Biophys. Acta, 1833, 2765-2774.
21. **Giannattasio S**., Guaragnella N., Arbinio A.A., Moro L. (2013) Stress-Related Mitochondrial Components and Mitochondrial Genome as Targets of Anticancer Therapy Chem. Biol. Drug Des. 81, 102-112.
22. Guaragnella N, Zdralević M, Antonacci L, Passarella S, Marra E, **Giannattasio S**. (2012) The role of mitochondria in yeast programmed cell death. Front. Oncol. 2, 70.
23. Antonacci L., Guaragnella N., Ždralević M., Passarella S., Marra E. and **Giannattasio S**. (2012) The N-acetylcysteine-insensitive acetic acid-induced yeast programmed cell death occurs without macroautophagy Curr. Pharm. Biotechnol. 13, 2705-2711.
24. Ždralević M. Guaragnella N., Antonacci L., Marra E. and **Giannattasio S**. (2012) Yeast as atool to study signalling pathways in mitochondrial stress response and cytoprotection. ScientificWorldJournal, 2012, doi:10.1100/2012/912147.
25. Guaragnella N, Passarella S, Marra E, **Giannattasio S**. (2011) Cytochrome c Trp65Ser substitution results in inhibition of acetic acid-induced programmed cell death in Saccharomyces cerevisiae. Mitochondrion, doi:10.1016/ j.mito.2011.08.007
26. Guaragnella N., Antonacci L., Passarella S., Marra E. and **Giannattasio S**. (2011) Achievements and perspectives in yeast acetic acid-induced programmed cell death pathways. Biochem. Soc. Trans. 39, 1538-43 Review
27. Guaragnella N, Passarella S, Marra E, **Giannattasio S**. (2010) Knock-out of metacaspase and/or cytochrome c results in the activation of a ROS-independent acetic acid-induced programmed cell death pathway in yeast. FEBS Lett. 584:3655-60.

28. Guaragnella N., Bobba A., Passarella S., Marra E. and **Giannattasio S**. (2010) Yeast acetic acid-induced programmed cell death can occur without cytochrome c release which requires metacaspase YCA1. FEBS Lett.584, 224-228.
29. R.A. Vacca, **S. Giannattasio**,. G. Capitani, E. Marra and P. Christen. (2008) Molecular Evolution of B6 Enzymes: Binding of Pyridoxal-5'-phosphate and Lys41Arg Substitution Turn Ribonuclease A into a Model B6 Protoenzyme. BMC Biochemistry 9, 17.
30. Kucejova B, Li L, Wang X, **Giannattasio S**, Chen XJ. (2008) Pleiotropic effects of the yeast Sal1 and Aac2 carriers on mitochondrial function via an activity distinct from adenine nucleotide transport. Mol Genet Genomics 280, 25-39.
31. **Giannattasio S**., Atlante A., Antonacci L., Guaragnella N., Lattanzio P., Passarella S., Marra E. (2008) Cytochrome c is released from coupled mitochondria of yeast en route to acetic acid-induced programmed cell death and can work as an electron donor and a ROS scavenger. FEBS Lett. 582, 1519-1525.
32. Valenti D., Vacca R.A., Guaragnella N., Passarella S., Marra E., **Giannattasio S**. (2008) A transient proteasomeactivation is needed foracetic acid-induced programmed cell death to occur in Saccharomyces cerevisiae. FEMS Yeast Res. 8, 400-404.
33. Guaragnella N., Antonacci L., **Giannattasio S**., Marra E., Passarella S. (2008) Catalase T and Cu,Zn-superoxide dismutase in the acetic acid-induced programmed cell death in Saccharomyces cerevisiae. FEBS Lett. 582, 210-214.
34. N. Guaragnella, L.Antonacci, S. Passarella, E. Marra, **S. Giannattasio** (2007) Hydrogen peroxide and superoxide anion production during acetic acid-induced yeast programmed cell death. Folia Miocrobiol. 52, 237-240.
35. N. Guaragnella, C. Pereira, M. J. Sousa, L. Antonacci, S. Passarella, M. Corte-Real, E. Marra and **S. Giannattasio** (2006) YCA1 participates in the acetic acid induced yeast programmed cell death also in a manner unrelated to its caspase-like activity. FEBS Lett. 580, 6880-6884.
36. **S. Giannattasio**, A. Bobba, V. Jurgelevičius, R.A. Vacca, P. Lattanzio, R.S. Merafina, A. Utkus, V. Kučinskas and E. Marra (2006) Molecular basis of cystic fibrosis in Lithuania. Incomplete CFTR mutation detection by PCR-based screening protocols. Genet. Test. 10, 169-173.
37. **S. Giannattasio**, Z. Liu, J. Thornton, R. A. Butow (2005) Retrograde respinse to mitochondrial dysfunction is separable from TOR1/2 regulation of retrograde gene expression. J. Biol. Chem. 280, 42528-42535.
38. **S. Giannattasio**, N. Guaragnella, M. Corte-Real, S. Passarella, E. Marra (2005) Acid stress adaptation protects Saccharomyces cerevisiae from acetic acid-induced programmed cell death. Gene, 354, 93-98.
39. Atlante, **S. Giannattasio**, A. Bobba, S. Gagliardi, V. Petragallo, P. Calissano, E. Marra, S. Passarella (2005) An increase in the ATP levels occurs in cerebellar granule cells en route to apoptosis in which ATP derives from both oxidative phosphorylation and aerobic glycolysis. Biochim. Biophys. Acta, 1708, 50-62.
40. Bobba A, Marra E, Fathallah DM, **S. Giannattasio**. Related (2003) Non-radioactive detection of five common microsatellite markers for ATP7B gene in Wilson disease patients. Mol Cell Probes.17, 271-274.
41. N. Pronina, **S. Giannattasio**, P. Lattanzio, R. Lugovska, P. Vevere, A. Kornejeva (2003) The molecular basis of phenylketonuria in Latvia. Hum. Mutat. 21, 398-399
42. J. Kasnauskiene, **S. Giannattasio**, P. Lattanzio, L. Cimbalistiene, V. Kučinskas (2003) The molecular basis of phenylketonuria in Lithuania. Hum. Mutat. 21, 398.
43. **S. Giannattasio**, S. Gagliardi, M. Samaja and E. Marra (2003) Simultaneous determination of purine nucleotides, their metabolites and -nicotinamide adenine dinucleotide in cerebellar granule cells by ion-pair high performance liquid chromatography. Brain Res. Brain Res. Protocol 10, 168-174.
44. **S. Giannattasio**, I. Dianzani, P. Lattanzio, M. Spada, V. Romano, F. Calì, G. Andria, A. Ponzone, E. Marra and A. Piazza (2001) Genetic heterogeneity in five Italian regions: Analysis of PAH mutations and minihaplotypes. Hum. Hered. 52, 154-159.
45. Atlante, P. Calissano, A. Bobba, **S. Giannattasio**, E. Marra and S. Passarella (2001) Glutamate neurotoxicity, oxidative stress and mitochondria. FEBS Lett. 497, 1-5.
46. Bobba, E. Marra, P. Lattanzio, A. Iolascon and **S. Giannattasio** (2000) Characterization of the cyp21 gene 5' flanking region in patients affected by 21-OH deficiency. Hum. Mutat. 15, 481.
47. Bobba, A. Atlante, **S. Giannattasio**, G. Sgaramella, P. Calissano and E. Marra (1999) Early release and subsequent caspase-mediated degradation of cytochrome c in apoptotic cerebellar granule cells. FEBS Lett. 457, 126-130.

48. Bobba, A. Iolascon, F. Monno, S. Di Maio,. E. Marra and **S. Giannattasio** (1999) 21-hydroxylase deficiency in Italy: a distinct distribution pattern of CYP21 mutations in a sample from Southern Italy. J. Med. Genet. 36, 648-650.
49. Azzariti, R. A. Vacca, **S. Giannattasio**, R. S. Merafina, E. Marra and S. Doonan (1998) Kinetic properties and thermal stabilities of mutant forms of mitochondrial aspartate aminotransferase. Biochim. Biophys. Acta 1386, 29-38.
50. Spada, M., Dianzani, I., Bonetti, G., Biondi, A., Leone, L, **S. Giannattasio** and Ponzone, A. (1998) Phenylalanine and tyrosine metabolism in PKU heterozygotes: influence of different PAH mutations. J. Inherit. Metab. Dis. 21, 236-239.
51. Guzzetta, V., Bonapace, G., Dianzani, I., Parenti, G., Lecora, M., **S. Giannattasio**, Concolino, D., Strisciuglio, P., Sebastio, G., Andria, G. (1997) Phenylketonuria in Italy: distinct distribution pattern of three mutations of the phenylalanine hydroxylase gene. J. Inherit. Metab. Dis. 20, 619-624.
52. Vacca, R. A., **S. Giannattasio**, Graber R., Sandmeier E., Marra E. and Christen P. (1997). Active-site ArgLys substitutions alter reaction and substrate specificity of aspartate aminotransferase. J. Biol. Chem. 272, 21932-21937.
53. F. Calì, F., Dianzani, I., Desviat, L. R., Perez, B., Ugarte. M., Ozguc, M., Shiloh, Y., **S. Giannattasio**, Carducci, C., Bosco, P., De Leo, G., Piazza, A. and Romano, V. (1997). The STR 252 - IVS10nt546 - VNTR 7 phenylalnine hydroxylase minihaplotype in five Mediterranean samples. Hum. Genet. 100, 350-355.
54. **S. Giannattasio**, P. Lattanzio, V. Jurgelevicius, L. Cimbalistiene, E. Marra and V. Kucinskas (1997). Phenylketonuria mutations and the linked haplotypes in the Lithuanian population: origin of the most common R408W mutation. Hum. Hered. 47, 155-160
55. Bobba, A. Iolascon, **S. Giannattasio**, M. Albrizio, A. Sinisi, F. Prisco, F. Schettini and E. Marra (1997). Characterization of CAH alleles with non radioactive DNA-single strand conformation polymorphism analysis of CYP21 gene. J. Med. Genet. 34, 223-228.
56. **S. Giannattasio**, P.Lattanzio, A. Bobba and E. Marra (1997). Detection of microsatellites by ethidium bromide staining. The analysis of the STR system in the human phenylalanine hydroxylase gene. Mol. Cell. Probes 11, 81-83.
57. Azzariti, **S. Giannattasio**, S. Doonan, R.S. Merafina, E.Marra, E. Quagliariello (1995). Use of protease sensitivity to probe the conformations of newly-synthesised mutant forms of mitochondrial aspartate aminotransferase. Biochem. Biophys. Res. Commun. 215, 800-807.
58. Bobba, **S. Giannattasio**, A. Pucci, R. Lippolis, C. Camaschella and E. Marra (1995). Characterization of mitochondrial DNA in primary cardiomyopathies. Clin. Chim. Acta 243, 181-189.
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