CURRICULUM VITAE

INFORMAZIONI PERSONALI

Nome	**CRISTIANO RIZZO**
Telefono	
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Nazionalità	Italiana
Data di nascita	

ESPERIENZA LAVORATIVA

• Date (1996 – 2000)	1996-2000 Ricercatore presso il laboratorio di Biochimica Metabolica dell'Ospedale Pediatrico a Carattere Scientifico "Bambino Gesù" di Roma; 1999 Borsa di studio dell'Universita degli Studi di Siena 1999 Borsa di studio dell'Academia Nacional de Ciencias.Cordoba. Argentina
• Date (2001 – 2013)	Dirigente di 1° livello Biologo presso la Sezione di Biochimica Metabolica del Laboratorio Analisi dell'Ospedale Bambino Gesù;
• Date (2014 – 2020)	Alta Specializzazioni in Biochimica Metabolica presso la Sezione di Biochimica Metabolica del Laboratorio Analisi dell'Ospedale Bambino Gesù;

ATTIVITA D'INSEGNAMENTO

2007 Docente in patologia presso il Laboratorio URUP della University of Utah, Salt Lake City, Utah, Stati Uniti

2011 Docente presso l'Università di Siena, Italia. Corso : La GC-MS nello studio delle acidosi organiche: l'analisi degli acidi organici nei liquidi biologici

2011 Docente presso l'Università di Catania, Italy. Master in clinical application of mass spectrometry: Analisi di spettri di acidi organici nella diagnosi di Errori Congeniti del Metabolismo

2012 Docente presso l'Istituto de Estudio Avanzato (IDEA) Caracas, Venezuela. Corso: Valutazione di metodi diagnostici utilizzando tecniche di cromatografia e spettrometria di massa nella diagnosi di Errori Congeniti del Metabolismo

2013 Docente presso l'Università di Catania, Italy. Master in clinical application of mass spectrometry: diagnosi degli Errori Congeniti del Metabolismo

2014 Docente presso la Scuola di Formazione Permanente di Medicina di laboratorio. La spettrometria di Massa nel Laboratorio di Biochimica Clinica II modulo. Le organico acidurie

2015 Docente presso il Dipartimento di Genetica della Facoltà di Medicina dell'Università Autonoma de Nuevo Leon, Monterrey, Messico Corso: Valutazione di metodi diagnostici utilizzando tecniche di cromatografia e spettrometria di massa nella diagnosi di Errori Congeniti del Metabolismo

2015 Direttore della Scuola Permanente di Medicina Di Laboratorio SIBIOC. Modulo della Applicazioni Cliniche della Spettrometria di Massa

2017 Docente presso la scuola SIMMESN sullo screening neonatale e conferma diagnostica

2018-2021 Docente del Master universitario "applicazioni della spettrometria di massa in ambito clinico" presso l'Università Cattolica Policlinico Agostino Gemelli

Consulenze/Convenzioni

2014-2016 Convenzione Ospedale pediatrico Bambino Gesù/Azienda Ospedaliera Universitaria Policlinico di Bari collaborazione in ambito clinico laboratoristico per la realizzazione di un progetto di screening neonatale allargato

ISTRUZIONE E FORMAZIONE

• Date (1998 – 2001)

Maturità Scientifica conseguita nell'anno 1988 al Liceo scientifico "M. Azzarita"

Laurea di dottore in Scienze Biologiche conseguita il 13 dicembre 1995 presso l'Università degli Studi di Roma "La Sapienza"

Abilitazione alla professione di Biologo conseguita nella sezione di maggio 1998 presso l'Università degli Studi di Roma "La Sapienza"

Specializzazione in Biochimica Clinica conseguita nella sezione di novembre 2001 presso la II Università degli Studi di Roma Tor Vergata

ATTIVITA IN SOCIETA' SCIENTIFICHE

-Responsabile Scientifico per il controllo di Qualità Europeo ERNDIM (European Research Network Inherited Disorders of Metabolism) per il laboratorio dell'Ospedale Pediatrico Bambino Gesù. 2001-2021

-Membro della Società Scientifica SSIEM (The Society for the Study of Inborn Errors of Metabolism). 1995-2015

-Membro della Società Italiana per lo studio delle Malattie Metaboliche Ereditarie (SISMME) 1996-2021

-Consigliere della Società SIMMESN (Società Italiana Malattie Metaboliche Ereditarie e Screening Neonatale 2011-2015

-Membro del GdL Qualita della Società SIMMESN 2011-2021

-Board of Trustees dell' ERNDIM Foundation (European Research Network for evaluation and improvement of screening, Diagnosis and treatment of Inherited disorders of Metabolism) 2013-2021

-Coordinatore del GdL Screening Neonatale e Malattie Metaboliche Ereditarie della Società Biochimica Italiana (SIBIOC) 2021

-Scientific Advisor per il controllo di qualità delle acilcarnitine dell' ERNDIM Foundation (European Research Network for evaluation and improvement of screening, Diagnosis and treatment of Inherited disorders of Metabolism) 2018-2021

PUBBLICAZIONI

1. Intravenous immune globulin in lisinuric protein intollerance. C. Dionisi-Vici, L. De Felice, M. El Hachem, S. Bottero, **C. Rizzo**, A. Paoloni, B. Goffredo, G. Sabetta and M . Caniglia .. J. Inher. Metab. Dis. 21: 95-102 (1998)

2. Pyroglutamic aciduria and nephropatic cystinosis.**C.Rizzo**, A.Ribes, A.Pastore, C.Dionisi-Vici, M. Greco, G.Rizzoni, G. Federici. J. Inher. Metab. Dis. 22: 224-226 (1999)

3. La dieta chetogena nelle epilessie farmacoresistenti. R. Gusmai, ML. Lispi, M. Elia, C. Dionisi, **C.Rizzo**, P. Veggiotti et al. Boll lega It Epil 106/107:365-367 (1999)

4. A simple and rapid HPLC method for simultaneous determination of plasma 7-dehydrocholesterol and vitamin E: its application in Smith-Lemli-Opitz patients.**C. Rizzo**, C. Dionisi-Vici, M. D'Ippoliti, F.Fina, G. Sabetta, G.Federici. Clinica Chimica Acta. 291:97-102 (2000)

5. Oxidative abnormalities in Menkes disease. **C.Rizzo**, E. Bertini, V. Leuzzi, F. Piemonte, G. Sabetta, G.Federici, A. Luchetti, C.Dionisi-Vici. J. Inher. Metab. Dis. 23: 349-351 (2000)

6. A nuvel 7-DHCR mutation in a child with Smith-Lemli-Opitz Syndrome. C. Patrono, **C.Rizzo**, A. Tessa, A. Giannotti, P. Borrelli, R. Carrozzo, F. Piemonte, E. Bertini, C. Dionisi-Vici, FM Santorelli . American Journal of Medical Genetics 91:138-140 (2000)

7. Tyrosine hydroxylase deficiency with severe clinical course: clinical and biochemical investifation and optimization of theraphy. C. Dionisi-Vici, GF Hoffmann, V. Leuzzi, H. Hoffken, C. Brautigam, **C. Rizzo**, G. Steebergen-Spanjers, JAM Smeitink, RA Wewers. Paediatric Research 136: 560-562 (2000)
8. Emergenze metaboliche del neonato "luci" ed "ombre". G.Sabetta, A. Bartuli, G. Cotugno, **C. Rizzo**, E. Bevivino, F. Deodato, C. Dionisi-Vici. Neonatologica. suppl. 46-49 (2001)

9. Clinical and molecular findings in hyperornithinemia-hyperammonemia homocitrullinuria syndrome. S. Salvi, FM Santorelli, E. Bertini, R. Boldrini, C. Meli, A. Donati, AB Burlina, **C. Rizzo**, M. Di Capua, G. Fariello, C. Dionisi-Vici. Neurology 57:911-914 (2001)

10. Extracorporeal dialysis in neonatal hyperammonemia:modalities and prognostic indicators. S. Picca, C. Dionisi-Vici, D. Abeni, A. Pastore, **C. Rizzo**, M. Orzalesi, G. Sabetta, G.Rizzoni,A.Bartuli. Pediatric Nephrology 16(11):862-7 (2001)

11. Successful pregnancy in a woman with mut- metilmalonic aciduria. F. Deodato,**C.Rizzo**,S. boenzi, F.Baiocco, G.Sabetta, C. Dionisi-Vici Journal Inherited Metabolic Disease 25: 133-134 (2002)

12. Two novel mutation of the human Delta7-sterol reductase (DHCR7) gene in children with Smith-Lemli-Opitz syndrome. C. Patrono, C. Dionisi-Vici, A. Giannotti, B. Bembi, M. Digilio, **C. Rizzo**, C. Purificato, C. Martini, R. Pierini, F. Santorelli. Molecular Cell Probes 16:315 (2002)

13. Adrenomyeloneuropathy partially responsive to steroid pulse therapy.MB Panico, **C. Rizzo**, MT Desiato, P. Calabresi, R. Floris, R. Massa. Neurological Sciences 23:141-142 (2002)

14. Ethylmalonic encephalopathy Further clinical and neuroradiological characterization. S. Grosso, R. Mostardini, MA. Farnetani, M. Molinelli, R. Berardi, C. Dionisi-Vici, , **C. Rizzo**, G. Morgese, P. Balestri. Journal Neurology. 249:1446-50 (2002)

15. Characteristic acylcarnitines profiles in inherited defects of peroxisome biogenesis. A novel tool for screening diagnosis using tandem mass spectrometry. **C. Rizzo**, S. Boenzi, R.J.A. Wanders, M. Duran, U. Caruso, C. Dionisi-Vici. Pediatric Research 53: 1013-1018 (2003)

16. Inborn errors of metabolism: an update on epidemiology and on neonatal-onset hyperammonemia. Deodato F, Boenzi S, **Rizzo C**, Abeni D, Caviglia S, Picca S, Bartuli A, Dionisi-Vici C. Acta Paediatr Suppl. 93(445):18-21 (2004)

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18. Impaired activity of the gamma-glutamyl cycle in nephropathic cystinosis fibroblasts.Mannucci L, Pastore A, **Rizzo C**, Piemonte F, Rizzoni G, Emma F. PediatRes. 2006 Feb;59(2):332-5

19. Succinic semialdehyde dehydrogenase deficiency: clinical, biochemical and molecular characterization of a new patient with severe phenotype and a novel mutation. Blasi P, Palmerio F, Caldarola S, **Rizzo C**, Carrozzo R, Gibson KM, Novelletto A, Deodato F, Cappa M, Dioni-Vici C, Malaspina P. Clin Genet. 2006 Mar;69(3):294-6

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Deoadato F, Lucioli S, **Rizzo C**, Meschini MC, Santorelli FM, Bertini E, Dionisi-Vici C, Carrozzo R. Paediatrics and child health 2009 Oct 19:S32-S37

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32. Evidence for genetic heterogeneity in D-2-hydroxyglutaric aciduria. Kranendijk M, Struys EA, Gibson KM, Wickenhagen WV, Abdenur JE, Buechner J, Christensen E, de Kremer RD, Errami A, Gissen P, Gradowska W, Hobson E, Islam L, Korman SH, Kurczynski T, Maranda B, Meli C, **Rizzo C**, Sansaricq C, Trefz FK, Webster R, Jakobs C, Salomons GS. Hum Mutat. 2010 Mar;31(3):279-83.

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34. Creatine metabolism in urea cycle defects. Boenzi S, Pastore A, Martinelli D, Goffredo BM, Boiani A, **Rizzo C**, Dionisi-Vici C.J Inherit Metab Dis. 2012 Jul;35(4):647-53.

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36. Measurement of succinyl-carnitine and methylmalonyl-carnitine on dried blood spot by liquid chromatography-tandem mass spectrometry. **Rizzo C**, Boenzi S, Inglese R, La Marca G, Muraca M, Martinez TB, Johnson D, Zelli E, Dionisi-Vici C. Clin Chim Acta. 2013 Nov 22.

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38. Riboflavin responsive mitochondrial myopathy is a new phenotype of dihydrolipoamide dehydrogenase deficiency. The chaperon-like effect of vitamin B2.
Carrozzo R, Torraco A, Fiermonte G, Martinelli D, Di Nottia M, Rizza T, Vozza A, Verrigni D, Diodato D, Parisi G, Maiorana A, **Rizzo C**, Pierri CL, Zucano S, Piemonte F, Bertini E, Dionisi-Vici C. Mitochondrion. 2014 Sep 20. S1567-7249(14)00129-9. j.mito.2014.09.006.

39. Thiamine Deficiency in a Developed Country: Acute Lactic Acidosis in Two Neonates Due to Unsupplemented Parenteral Nutrition.Salvatori G, Mondì V, Piersigilli F, Capolupo I, Pannone V, Vici CD, Rizzo C, Dotta A.JPEN J Parenter Enteral Nutr. 2015 Jan 15.

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Semeraro M, Muraca M, Catesini G, Inglese R, Iacovone F, Barraco GM, Manco M, Boenzi S, Dionisi-Vici C, Rizzo C.Clin Chim Acta. 2015 Feb 2;440:108-12

42. Evaluation of plasma cholestane-3β,5α,6β-triol and 7-ketocholesterol in inherited disorders related to cholesterol metabolism. Boenzi S, Deodato F, Taurisano R, Goffredo BM, Rizzo C, Dionisi-Vici C.J Lipid Res. 2016 Mar;57(3):361-7.

43. Liver transplant in ethylmalonic encephalopathy: a new treatment for an otherwise fatal disease.Dionisi-Vici C, Diodato D, Torre G, Picca S, Pariante R, Giuseppe Picardo S, Di Meo I, **Rizzo C**, Tiranti V, Zeviani M, De Ville De Goyet J.Brain. 2016

44. A new multiplex method for the diagnosis of peroxisomal disorders allowing simultaneous determination of plasma very-long-chain fatty acids, phytanic, pristanic, docosahexaenoic and bile acids by high-performance liquid chromatography-atmospheric pressure chemical ionization-tandem mass spectrometry. Semeraro M, **Rizzo C**, Boenzi S, Cappa M, Bertini E, Antonetti G, Dionisi-Vici C. Clin Chim Acta. 2016 Jul 1;458:159-64.

45. Expanding the molecular diversity and phenotypic spectrum of glycerol 3-phosphate dehydrogenase 1 deficiency.Dionisi-Vici C, Shteyer E, Niceta M, **Rizzo C**, Pode-Shakked B, Chillemi G, Bruselles A, Semeraro M, Barel O, Eyal E, Kol N, Haberman Y, Lahad A, Diomedi-Camassei F, Marek-Yagel D, Rechavi G, Tartaglia M, Anikster Y. J Inherit Metab Dis. 2016 Sep;39(5):689-95.

46. 3-Methylglutaconic aciduria, a frequent but underrecognized finding in carbamoyl phosphate synthetase I deficiency. Rokicki D, Pajdowska M, Trubicka J, Thong MK, Ciara E, Piekutowska-Abramczuk D, Pronicki M, Sikora R, Haidar R, Ołtarzewski M, Jabłońska E, Muthukumarasamy P, Sthaneswar P, Gan CS, Krajewska-Walasek M, Carrozzo R, Verrigni D, Semeraro M, **Rizzo C**, Taurisano R, Alhaddad B, Kovacs-Nagy R, Haack TB, Dionisi-Vici C, Pronicka E, Wortmann SB. Clin Chim Acta. 2017 Aug;471:95-100.

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Eur J Neurol 2019 Feb;26(2):326-332. doi: 10.1111/ene.13816. Epub 2018 Nov 9.

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53. A False-Positive Case of Methylmalonic Aciduria by Tandem Mass Spectrometry Newborn Screening Dependent on Maternal Malnutrition in Pregnancy.Rossi C,

Cicalini I, Rizzo C, Zucchelli M, Consalvo A, Valentinuzzi S, Semeraro D, Gasparroni G, Brindisino P, Gazzolo D, Dionisi-Vici C, De Laurenzi V, Pieragostino D.Int J Environ Res Public Health. 2020 May 20;17(10):3601.

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CAPITOLI LIBRI

1. ***C. Rizzo**. Il laboratorio negli scompensi acuti metabolici. Chaper 14 pag 109-125 in Malattie Genetiche; P. Durand G.Sabetta. McGraw-Hill Libri Italia srl. 1998*

2. *C.Dionisi-Vici, A.Bartuli, **C.Rizzo.** Acidosi organiche.Chapter 7 pag 49-66 in Malattie Genetiche; P. Durand e G. Sabetta. McGraw-Hill Libri Italia srl. 1998*

3. *C. Dionisi-Vici, R. Boldrini, G. Fariello, G. Uziel, F. Feillet, **C. Rizzo**, E. Bertini New Mitochondrial Encephalopathy Syndrome with Macrocephaly and complex I deficency.Chapter 18 pag 317-327 in Mitochondrial Ubiquinone (Coenzime Q10): biochemical, functional, medical and therapeutic aspects in human healt and disease; M. Ebadi, J. Marwah and R. Chopra. Prominent Press. Scottsdale Arizona.*

4. *La Marca G, **C. Rizzo** Analysis of organic acids and acylglycines for the diagnosis of related inborn errors of metabolism by GC- and HPLC-MS.. Metabolic Profiling. Methods Mol Biol. 2011;708:73-98.*

Abstract recensiti

1. *Ethylmalonic aciduria in a girl with ornithine transcarbamylase deficiency. **Rizzo C.** International Congresss of Clinical Biochemistry, London-England (1996)*

2. *Ethylmalonic aciduria and OTC deficiency. C. Dionisi-Vici, **C.Rizzo** , B.Goffredo, N. Gregersen, B. Wermuth, G. Sabetta, G.Federici.VII Internazional Congress Of Inborn Errors of Metabolism Vien -Austria (1997).*

3. *Tyrosine hydroxylase deficency: biochemical and molecular findings in a severe clinical form. C. Dionisi-Vici, J.A.M. Smeitink, C. Brautigam, **C.Rizzo**, V.Leuzzi, G. Steenbergen-Spanjers,B.Van der Heuvel and R.A. Wevers. Journal of Inherited Metabolic Disease 21 suppl. 2: 5 (1998)*

4. *Organic acids in nephropatic cystinosis: effects of cysteamine therapy. **C.Rizzo**, A.Ribes, A.Pastore, C.Dionisi-Vici, P.Bencivenga, M. Greco, G.Rizzoni, G. Federici. Journal of Inherited Metabolic Disease 21 suppl. 2: 56 (1998)*

5. *Oxidative abnormalities in Menkes disease. **C.Rizzo**, E. Bertini, C.Dionisi-Vici, V Leuzzi, F.*

Piemonte, G. Sabetta, G.Federici. Journal of Inherited Metabolic Disease 22 suppl 1: 122 (1999)

6. *Incidence of inborn errors of metabolism in the italian population. C.Dionisi-Vici,* ***C.Rizzo****, U. Caruso, A.B. Burlina, G. Uziel, D. Abeni. Journal of Inherited Metabolic Disease 22 suppl 1: 4 (1999)*

7. *Clinical and neuropathological study in familiar infantile leukodystrophy with complex II deficiency. F. Piemonte, C. Dionisi-Vici, C. Patrono, A. Tessa, R. Carrozzo, R. Boldrini, G. Fariello,* ***C. Rizzo****, Boeslug-Tanguy, F.M. Santorelli, E.Bertini. Journal of Inherited Metabolic Disease 22 suppl 1: 25 (1999)*

8. *Transient lactic acidemia high intravenous glucose infusion rate and thiamine deficiency in small-for- date infant with persistent hypoglycemia.C. De Felice, M. Molinelli,* ***C. Rizzo****, M.A. Margollicci, E. Guercio, L. Filippi, F. Bagnoli. Journal of Inherited Metabolic Disease 22 suppl 1: 96 (1999)*

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Roma 14 Maggio 2021

- Autorizzo il trattamento dei miei dati personali ai sensi del D.Lgs 196/2003.

- Ai sensi degli articoli 46 e 47 del D.P.R. n. 445/2000 dichiaro, sotto la mia responsabilità e consapevole delle sanzioni penali previste dall'art. 76 del D.P.R. 445/2000, la veridicità delle informazioni e dei titoli indicati ed autocertificati.

Roma 14 maggio 2021