

UNIVERSITÀ DEGLI STUDI DI MILANO

Procedura di selezione per la chiamata a professore di II fascia da ricoprire ai sensi dell'art. 18, commi 1 e 4, della Legge n. 240/2010 per il settore concorsuale 05/E3 - Biochimica Clinica e Biologia Molecolare Clinica, (settore scientifico-disciplinare BIO/12 - Biochimica Clinica e Biologia Molecolare Clinica) presso il Dipartimento di SCIENZE BIOMEDICHE E CLINICHE "L. SACCO", (avviso bando pubblicato sulla G.U. n.14 del 19-02-2019) - Codice concorso 4019

[ANNA PASTORE] CURRICULUM VITAE

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	PASTORE
NOME	ANNA
DATA DI NASCITA	[08, 07, 1966]

**INSERIRE IL PROPRIO CURRICULUM
(non eccedente le 30 pagine)**

Data

14 MARZO 2019

Luogo

FIUMICINO

DATI PERSONALI

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STUDI E FORMAZIONE

1985 Diploma di Maturità Tecnica di Perito Industriale Capotecnico,
specializzazione Chimica Industriale, conseguito presso l'Istituto Tecnico Industriale di
Stato "G.L. Lagrange" di Roma.

1990 Diploma di Maturità Professionale di Tecnico delle Industrie Chimiche, conseguito presso l'Istituto Professionale di Stato per l'industria e l'Artigianato "G. Nicolucci " di Isola del Liri (FR).

1991 Laurea di Dottore in Scienze Biologiche, conseguita presso l'Università degli Studi di Roma "Tor Vergata", votazione 110/110 e lode, con discussione della Tesi Sperimentale dal titolo: "Dosaggio immunoenzimatico su fase solida per gli ormoni T3, T4 e TSH".

1992 Abilitazione all'esercizio della Professione di Biologo.

1994 Iscrizione all'Albo dell'Ordine Nazionale dei Biologi.

1994 Dottorato di Ricerca in Biologia Molecolare e Cellulare, VII° Ciclo, svolto dal 01-11-1991 al 31-10-1994 presso il laboratorio Enzimologia -Dipartimento di Biologia – Facoltà di Scienze MMFFNN - Università degli Studi di Roma "Tor Vergata", con discussione, presso l'Università degli Studi di Padova, della Tesi Sperimentale dal titolo "Studi sulla struttura delle glutatione trasferasi umane".

2001 Specializzazione in Biochimica Clinica presso la Facoltà di Medicina e Chirurgia dell' Università degli Studi di Roma "Tor Vergata" con discussione della Tesi Sperimentale dal titolo "Determinazione della cistina intraleucocitaria mediante cromatografia liquida ad alta pressione e rivelazione fluorimetrica".

ESPERIENZE PROFESSIONALI

1994 Assegnazione di una borsa di studio presso l'Ospedale Pediatrico Bambino Gesù di Roma - IRCCS, nell'ambito del progetto di ricerca dal titolo "Tecniche di diagnosi e di monitoraggio del trattamento, in pazienti in fase di scompenso acuto secondario a disturbi del metabolismo intermedio", con presentazione di una relazione annuale dal titolo "Identificazione delle acil-glicine urinarie mediante Gas Cromatografia/Spettrometria di Massa (GC/MS)"

1996 Assegnazione di una borsa di studio presso l'Ospedale Pediatrico Bambino Gesù di Roma - IRCCS, nell'ambito del progetto di ricerca dal titolo "Studio dello stato redox e dei radicali liberi in varie patologie pediatriche". In Luglio è stata presentata la prima relazione semestrale dal titolo: "Dosaggio automatizzato dell'omocisteina totale nel plasma e nelle urine mediante HPLC/FD"; in Dicembre è stata presentata la seconda relazione semestrale dal titolo: "Dosaggio dell'acetoacetato e del 3-idrossibutirrato plasmatici con il Cobas-fara II".

1997 Assegnazione di una borsa di studio presso l'Ospedale Pediatrico Bambino Gesù di Roma - IRCCS, nell'ambito del progetto di ricerca finalizzata dal titolo "Valori di riferimento di parametri di laboratorio in età pediatrica, limiti decisionali, significato clinico e ricadute in termini di contenimento dei costi". In Maggio 1997 è stata presentata la prima relazione semestrale dal titolo: "Metodo di dosaggio della Cistina nei leucociti polimorfonucleati in pazienti affetti da cistinosi nefropatica". In Dicembre 1997 è stata presentata la seconda relazione semestrale dal titolo: "Dosaggio della cistina nei leucociti polimorfonucleati di 13 pazienti affetti da cistinosi nefropatica". In Maggio 1998 è stata presentata la terza relazione semestrale dal titolo: "Metodo di dosaggio delle isoforme glicosilate della transferrina per la diagnosi delle sindromi da deficit di glicosilazione (CGDS)".

1998 Assegnazione di un contratto annuale libero-professionale presso il Laboratorio di Analisi dell'Ospedale Pediatrico "Bambino Gesù" di Roma – IRCCS. Le attività svolte nell'ambito di tale incarico sono state le seguenti: turni di guardia presso l'Unità Operativa di Urgenza ed Emergenza (pomeridiani, festivi e notturni); turni di lettura dei sedimenti urinari; sostituzione, durante i periodi di ferie e/o malattia, del personale laureato presso le Unità Operative di Urgenza ed Emergenza e di Ematologia e Coagulazione; attività di ricerca e di routine presso l'Unità Operativa di Biochimica Speciale.

1999 Assegnazione di un contratto semestrale libero-professionale presso il Laboratorio di Analisi dell'Ospedale Pediatrico "Bambino Gesù" di Roma – IRCCS, per lo svolgimento di guardie notturne e pomeridiane presso l'Unità Operativa di Urgenza ed Emergenza.

1999 Assegnazione di un contratto di ricerca annuale nell'ambito della ricerca corrente "Nuove tecniche analitiche in diagnostica pediatrica".

2000 Contratto di assunzione a tempo determinato (durata dal 01/07/2000 al 30/06/2003) presso i Laboratori di Ricerca dell'Ospedale Pediatrico Bambino Gesù, in qualità di Dirigente di Primo Livello - Ricercatore, responsabile del Laboratorio di Chimica delle Proteine.

2003 Contratto di assunzione a tempo indeterminato dal 30/06/2003 presso i Laboratori di Ricerca dell'Ospedale Pediatrico Bambino Gesù, in qualità di Dirigente di Primo Livello - Ricercatore, responsabile del Laboratorio di Chimica delle Proteine.

CORSI UNIVERSITARI TENUTI IN QUALITÀ DI DOCENTE

1. Professore a contratto di Biochimica (BIO/10) del Corso di Laurea di primo livello in Infermieristica della Facoltà di Medicina e Chirurgia dell'Università degli Studi di Roma "Tor Vergata", con sede presso la Scuola Infermieri "Pier Giorgio Frassati" dell'Ospedale Pediatrico "Bambino Gesù" (http://didattica.uniroma2.it/docenti/curriculum/T_19454-Anna-Pastore);
2. Partecipazione al Collegio dei docenti del Dottorato di ricerca in Biotecnologie Mediche e Medicina Molecolare della Facoltà di Medicina e Chirurgia dell'Università degli Studi di Roma "Tor Vergata" in qualità di personale non di ruolo nelle università o dipendente di altri enti (<http://www.uniroma2.it/postgrad/download/Schede%20dottorati/Schede/Medicina/Biotecnologie%20Mediche%20e%20Medicina%20Molecolare.htm>).

FINANZIAMENTO A PROGETTI DI RICERCA

1. **2015-2017** Research project from **Cystinosis Research Foundation ONLUS**.
Project Title: "A Study on Bone Remodeling Defects in Nephropathic Cystinosis"
Role in the project: Collaborator. (<http://www.cystinosisresearch.org/research/grants-awarded/>)
2. **2014-2016** Research project from **Cystinosis Research Foundation ONLUS**.
Project Title: "In Vivo and In Vitro Drug Screening and Testing for Nephropathic

Cystinosis”. **Role in the project:** Collaborator.
(<http://www.cystinosisresearch.org/research/grants-awarded/>)

3. 2012-2015 Grant number R201301X003058 **Research project entitled** “Role of riboflavin in transporters in motor neuron diseases: genetic analysis of the Brown Vialetto Van Laere and Fazio Londe syndrome and development of potential treatment strategies for motor neuron diseases”. **Role in the project:** Collaborator.

4. 2012-2013 Grant number R201208X002874 Research project from **Cystinosis Research Foundation ONLUS**. **Project Title:** “Drug library screening to improve the out come of nephropatic cystinosis”. **Role in the project:** Collaborator.
(<http://www.cystinosisresearch.org/research/grants-awarded/>)

5. 2013 Grant number RC201302R003048 Ricerca Corrente, Ministry of Health, Bambino Gesù Hospital and Research Institute. **Project Title:** “Glutathionylcobalamin assay in CblC patients treated with hydroxycobalamin”. **Role in the project:** Principal Investigator.

6. 2012 Grant number R201203X002832 Research project from **Actelion Pharmaceuticals Ltd** (Gewerbstrasse 16, 4123 Allschwil, Switzerland). **Project Title:** “Study of Niemann Pick type C disease”. **Role in the project:** Collaborator.

7. 2012 Grant number R201203X002725 Research project from **Edison Pharmaceuticals** (350 Bernardo Ave, Mountain View, CA 94043, USA). **Project Title:** “Development of Clinical Trial to evaluate the efficacy of EPI-743”. **Role in the project:** Collaborator.

8. 2012 Grant number R201203X002798 Research project from **Edison Pharmaceuticals** (350 Bernardo Ave, Mountain View, CA 94043, USA). **Project Title:** “Neurological and visual impairment of CblC defect: anovel therapeutical approach based on antioxidant therapy”. **Role in the project:** Collaborator.

9. 2011 Research project from **Cystinosis Research Foundation ONLUS**. **Project Title:** “The role of altered calcium and mTOR signalling in the pathogenesis of cystinosis”. **Role in the project:** Collaborator.
(<http://www.cystinosisresearch.org/research/grants-awarded/>)

10. 2010-2011 Grant number R200908X002295 Research project from **Cystinosis Research Network–USA**. **Project Title:** “Functional characterization of cystinosin LKG”. **Role in the project:** Collaborator. (<https://cystinosis.org/research/grants-awarded/50-crn-grants-250-000-in-new-research-funding>)

- 11. 2009-2010** Grant number R201108X002659 Research project from **Cystinosis Research Network–USA. Project Title:** “Stem cell microvesicles rescue cystinosis in vitro”. **Role in the project:** Collaborator. (<https://cystinosis.org/images/research/grants-awarded/ongoing-research-commitments.pdf>)
- 12. 2009-2010** Grant number R200701X002324 Research project entitled “Mitochondrial disorders: from medical genetics to molecular mechanisms, toward the development of therapeutic strategies”. **Role in the project:** Collaborator.
- 13. 2008-2010** Grant number R200808X002294 Research project from **Cystinosis Research Foundation ONLUS. Project Title:** “Identification and analysis of cys and trans acting elements that activate the CTNS gene”. **Role in the project:** Collaborator. (<http://www.cystinosisresearch.org/research/grants-awarded/>)
- 14. 2008-2010** Grant number RC200702R002158 Ricerca Corrente, Ministry of Health, Bambino Gesù Hospital and Research Institute. **Project Title:** “Evaluation of oxidative stress in pediatric diseases by intracellular thiols determination in various biological specimen”. **Role in the project:** Principal Investigator.
- 15. 2008-2009** Grant number R200702G002093 Research project entitled “Molecular Determinants in neurodegenerative and rare diseases”. **Role in the project:** Collaborator.
- 16. 2007-2011** Grant number R200708X001698 Research project from **Cystinosis Research Foundation ONLUS. Project Title:** “Transcriptional and post-transcriptional regulation of the CTNS gene”. **Role in the project:** Collaborator.
- 17. 2007-2008** Grant number RC200602R001872 Ricerca Corrente, Ministry of Health, Bambino Gesù Hospital and Research Institute. **Project Title:** “Study of oxidative stress in pediatric patients with neurodegenerative diseases and on dialysis”. **Role in the project:** Principal Investigator.
- 18. 2007-2008** Grant number R200602G001746 Research project entitled “Molecular Determinants in neurodegenerative and rare diseases”. **Role in the project:** Collaborator.
- 19. 2006-2007** Grant number RC200502R001621 Ricerca Corrente, Ministry of Health, Bambino Gesù Hospital and Research Institute. **Project Title:** “Study of oxidative stress in pediatric patients with neurodegenerative diseases and on dialysis”. **Role in the project:** Principal Investigator.

- 20. 2006-2007** Grant number R200502G001515 Research project entitled “Molecular Determinants in neurodegenerative and rare diseases”. **Role in the project:** Collaborator.
- 21. 2006-2007** Grant number R200640X001494 Research project entitled “Study of genetic causes and certain pathogenic mechanisms in ataxia in children with development of therapeutic strategies and rehabilitation”. **Role in the project:** Collaborator.
- 22. 2003-2005** Grant number RC200302P001212 Ricerca Corrente, Ministry of Health, Bambino Gesù Hospital and Research Institute. **Project Title:** “Biochemical study of pediatric disorders caused by oxidative stress”. **Role in the project:** Principal Investigator.
- 23. 2003-2004** Grant number R-03-30 Research project from **Fondazione Pierfranco e Luisa Mariani ONLUS**. **Project Title:** “Glutathione metabolism and protein glutathionylation in the pathogenesis of **Friedreich’s ataxia**”. **Role in the project:** Collaborator. (<http://www.fondazione-mariani.org/it/ricerca/bandodiricerca/vincitoribandi-ricerca.html>)
- 24. 2000-2003** Grant number RC200005R000106 Ricerca Corrente, Italian Ministry of Health, Bambino Gesù Hospital and Research Institute. **Project Title:** “Biochemical study of pediatric disorders caused by oxidative stress”. **Role in the project:** Principal Investigator.

PUBBLICAZIONI

- 1. 2019** Sciarretta F, Fulci C, Palumbo C, Aquilano K, Pastore A, Iorio E, Lettieri-Barbato D, Cicconi R, Minutolo A, Parravano M, Gilardi M, Varano M, Caccuri AM. Glutathione Transferase P silencing promotes neuronal differentiation of retinal R28 cells. *J Cell Physiol.* 2019 Feb 11. doi: 10.1002/jcp.28246. [Epub ahead of print] PubMed PMID: 30741416.
- 2. 2018** Cossetti C, Di Giovamberardino G, Rota R, **Pastore A**. Pitfalls in the quantitative imaging of glutathione in living cells. *Nat Commun.* Apr 23;9(1):1588.
- 3. 2017** Petrillo S, Piermarini E, **Pastore A**, Vasco G, Schirinzi T, Carrozzo R, Bertini E, Piemonte F. Nrf2-inducers counteract neurodegeneration in frataxin-silenced motor neurons: disclosing new therapeutic targets for Friedreich’s Ataxia. *Int. J. Mol. Sci.* 18(10): 2173.

4. **2017** Pauletti A, Terron G, Shekh-Ahmad T, Salamone A, Ravizza T, Rizzi M, **Pastore A**, Pascente R, Liang LP, Villa BR, Balosso S, Abramov AY, van Vliet EA, Del Giudice E, Aronica E, Antoine DJ, Patel M, Walker MC, Vezzani A. Targeting oxidative stress improves disease outcomes in a rat model of acquired epilepsy. *Brain*, May 30. doi: 10.1093/brain/awx117. [Epub ahead of print].
5. **2017** Elmonem MA, Khalil R, Khodaparast L, Khodaparast L, Arcolino FO, Morgan J, **Pastore A**, Tylzanowski P, Ny A, Lowe M, de Witte PA, Baelde HJ, van den Heuvel LP, Levchenko E. Cystinosis (ctns) zebrafish mutant shows pronephric glomerular and tubular dysfunction. *Sci Rep*. 7:42583.
6. **2017** Ramazani Y, Levchenko EN, Van Den Heuvel L, Van Schepdael A, Paul P, Ivanova EA, **Pastore A**, Hartman TM, Price NP. Evaluation of carbohydrate-cysteamine thiazolidines as pro-drugs for the treatment of cystinosis. *Carbohydr Res*. 439:9-15.
7. **2017** Taranta A, Bellomo F, Petrini S, Polishchuk E, De Leo E, Rega LR, **Pastore A**, Polishchuk R, De Matteis MA, Emma F. Cystinosin-LKG rescues the cystinotic phenotype in proximal tubule epithelial cells. *Pediatric Research*, 81(1-1):113-119.
8. **2016** Piermarini E, Cartelli D, **Pastore A**, Tozzi G, Compagnucci C, Giorda E, D'Amico J, Petrini S, Bertini E, Cappelletti G and Piemonte F. Frataxin silencing alters microtubule stability in motor neurons: implications for Friedreich's Ataxia. *Human Molecular Genetics*, 25(19):4288-4301.
9. **2016** Goffredo BM, Cairoli S, Vitale A, Corsetti T, **Pastore A**. Reverse Phase High Performance Liquid Chromatography for the Simultaneous determination of Sildenafil and N-desmethyl sildenafil in plasma of children. *Biomedical Chromatography*, 2016; 30(12):2070-2073.
10. **2016** Rega LR, Polishchuk E, Montefusco S, Napolitano G, Tozzi G, Zhang J, Bellomo F, Taranta A, **Pastore A**, Polishchuk R, Piemonte F, Medina DL, Catz SD, Devuyst O, Ballabio A, Emma F. Activation of the transcription factor EB promotes clearance of lysosomal cystine and rescues abnormalities of the lysosomal compartment in cystinotic cells. *Kidney International*. 89(4):862-73.
11. **2016** Ivanova EA, van den Heuvel LP, Elmonem MA, De Smedt H, Missiaen L, **Pastore A**, Mekahli D, Bultynck G, Levchenko EN. Altered mTOR signalling in nephropathic cystinosis. *J Inher Metab Dis*. 39(3):457-64.
12. **2016** Panera N, Gnani D, Piermarini E, Petrini S, Bertini E, Nobili V, **Pastore A**, Piemonte F, Alisi A. High concentrations of H₂O₂ trigger hypertrophic cascade and

phosphatase and tensin homologue (PTEN) glutathionylation in H9C2 cardiomyocytes. *Exp Mol Pathol.* 100(1):199-206.

13. 2015 Ivanova EA, De Leo MG, Van Den Heuvel L, **Pastore A**, Dijkman H, De Matteis MA, Levchenko EN. Endo-Lysosomal Dysfunction in Human Proximal Tubular Epithelial Cells Deficient for Lysosomal Cystine Transporter Cystinosin. *PLoS One.* 10(3):e0120998.

14. 2015 Caterino M*, **Pastore A***, Strozzi MG, Di Giovamberardino G, Imperlini E, Scolamiero E, Ingenito L, Boenzi S, Ceravolo F, Martinelli D, Dionisi-Vici C, Ruoppolo M. The proteome of cblC defect: in vivo elucidation of altered cellular pathways in humans. *J Inherit Metab Dis.* 38(5):969-79. (*equally contributed).

15. 2015 Pastore A, Petrillo S, Piermarini E, Piemonte F. Systemic Redox Biomarkers in Neurodegenerative Diseases. *Curr Drug Metab.* 16(1):46-70.

16. 2015 Pastore A, Noce A, Di Giovamberardino G, De Stefano A, Callà C, Zenobi R, Dessì M, Di Daniele N. Homocysteine, cysteine, folate and vitamin B(12) status in type 2 diabetic patients with chronic kidney disease. *J Nephrol.* 28(5):571-576.

17. 2015 Dessì M, Di Giovamberardino G, Pieri M, Noce A, Zenobi R, Di Daniele N, **Pastore A**. Influence of dialysis techniques and alternate vitamin supplementation on homocysteine levels in patients with known MTHFR genotypes. *Clin Exp Nephrol.* 19(1):140-145.

18. 2014 Pastore A, Alisi A, di Giovamberardino G, Crudele A, Ceccarelli S, Panera N, Dionisi-Vici C, Nobili V. Plasma Levels of Homocysteine and Cysteine Increased in Pediatric NAFLD and Strongly Correlated with Severity of Liver Damage. *Int J Mol Sci.* Nov 17;15(11):21202-21214.

19. 2014 Noce A, Fabrini R, Dessì M, Bocedi A, Santini S, Rovella V, **Pastore A**, Tesaro M, Bernardini S, Di Daniele N, Ricci G. Erythrocyte glutathione transferase activity: a possible early biomarker for blood toxicity in uremic diabetic patients. *Acta Diabetol.* 51:219-24.

20. 2014 Masotti A, Laurenzi C, Boenzi S, **Pastore A**, Taranta A, Bellomo F, Muraca M, Dionisi-Vici C, Bertucci P, Strologo LD, Emma F. Gender-related effects on urine L-cystine metastability. *Amino Acids* 46(2):415-27.

21. 2014 De Luca A, Mei G, Rosato N, Nicolai E, Federici L, Palumbo C, **Pastore A**, Serra M, Caccuri AM. The fine-tuning of TRAF2-GSTP1-1 interaction: effect of ligand binding and in situ detection of the complex. *Cell Death Dis.* 5:e1015.

- 22. 2014 Pastore A**, Martinelli D, Piemonte F, Tozzi G, Boenzi S, Di Giovamberardino G, Petrillo S, Bertini E, Dionisi-Vici C. Glutathione metabolism in cobalamin deficiency type C (cblC). *J Inherit Metab Dis.* 37(1):125-9.
- 23. 2014 Carletti B**, Piermarini E, Tozzi G, Travaglini L, Torraco A, **Pastore A**, Sparaco M, Petrillo S, Carrozzo R, Bertini E, Piemonte F. Frataxin silencing inactivates mitochondrial Complex I in NSC34 motoneuronal cells and alters glutathione homeostasis. *Int J Mol Sci.* Apr 4;15(4):5789-806.
- 24. 2014 Torraco A**, Carrozzo R, Piemonte F, **Pastore A**, Tozzi G, Verrigni D, Assenza M, Orecchioni A, D'Egidio A, Marraffa E, Landoni G, Bertini E, Morelli A. Effects of levosimendan on mitochondrial function in patients with septic shock: a randomized trial. *Biochimie.* Jul;102:166-73.
- 25. 2014 Boenzi S**, Deodato F, Taurisano R, Martinelli D, Verrigni D, Carrozzo R, Bertini E, **Pastore A**, Dionisi-Vici C, Johnson DW. A new simple and rapid LC-ESI-MS/MS method for quantification of plasma oxysterols as dimethylaminobutyrate esters. Its successful use for the diagnosis of Niemann-Pick type C disease. *Clin Chim Acta.* Jul 16;437C:93-100.
- 26. 2013 Pastore A**, Piemonte F. Protein Glutathionylation in Cardiovascular Diseases. *Int. J. Mol. Sci.* 14:20845-20876.
- 27. 2013 Petrillo S**, Piemonte F, **Pastore A**, Tozzi G, Aiello C, Pujol A, Cappa M, Bertini E. Glutathione imbalance in patients with X-linked adrenoleukodystrophy. *Mol Genet Metab.* 109:366-370.
- 28. 2013 Dionisi-Vici C**, Martinelli D, Ceravolo F, Boenzi S, **Pastore A**. Optimizing the dose of hydroxocobalamin in cobalamin C (cblC) defect. *Mol Genet Metab.* 109:329-330.
- 29. 2013 Pastore A**, Petrillo S, Tozzi G, Carrozzo R, Martinelli D, Dionisi-Vici C, Di Giovamberardino G, Ceravolo F, Klein MB, Miller G, Enns GM, Bertini E, Piemonte F. Glutathione: a redox signature in monitoring EPI-743 therapy in children with mitochondrial encephalomyopathies. *Mol Genet Metab.* 2013; 109:208-214.
- 30. 2013 De Luca A**, Pellizzari Tregno F, Sau A, **Pastore A**, Palumbo C, Alama A, Cicconi R, Federici G, Caccuri AM. Glutathione S-transferase P1-1 as a target for Mesothelioma treatment. *Cancer Sci.* Feb;104(2):223-30.
- 31. 2013 Ferrannini M**, Niscola P, Falcone C, Noce A, **Pastore A**, Di Giovamberardino G, Scaramucci L, Di Daniele N, Palumbo R. Drastic Reduction Of Piperacillin-Tazobactam Concentrations In An In-Vitro Model Of Continuous Venovenous

Hemofiltration: Proposal Of An Innovative Modality Of Administration To Maintain Them At Constant Concentration. *Cardiovasc Hematol Agents Med Chem.* 11(3):187-93.

32. 2012 Alisi A, **Pastore A**, Ceccarelli S, Panera N, Gnani D, Bruscalupi G, Massimi M, Tozzi G, Piemonte F, Nobili V. Emodin prevents intrahepatic fat accumulation, inflammation and redox status imbalance during diet-induced hepatosteatosis in rats. *Int J Mol Sci*;13:2276-89.

33. 2012 Besouw MT, van Pelt AM, Gaide Chevonnay HP, Courtoy PJ, **Pastore A**, Goossens E, Devuyst O, Antignac C, Levtschenko EN. Studying nonobstructive azoospermia in cystinosis: histologic examination of testes and epididymis and sperm analysis in a Ctns(-/-) mouse model. *Fertil Steril*; 98(1):162-5.

34. 2012 Petrini S, Passarelli C, **Pastore A**, Tozzi G, Coccetti M, Colucci M, Bianchi M, Carrozzo R, Bertini E, Piemonte F. Protein glutathionylation in cellular compartments: A constitutive redox signal. *Redox Rep*;17(2):63-71.

35. 2012 **Pastore A**, Piemonte F. S-Glutathionylation signaling in cell biology: Progress and prospects. *Eur J Pharm Sci*;46(5):279-92.

36. 2012 Boenzi S, **Pastore A**, Martinelli D, Goffredo BM, Boiani A, Rizzo C, Dionisi-Vici C. Creatine metabolism in urea cycle defects. *J Inherit Metab Dis*;35(4):647-53.

37. 2012 Ciccolella M, Catteruccia M, Benedetti S, Moroni I, Uziel G, Pantaleoni C, Chiapparini L, Bizzi A, D'Amico A, Fattori F, Salsano ML, **Pastore A**, Tozzi G, Piemonte F, Bertini E. Brown-Vialetto-van Laere and Fazio-Londe overlap syndromes: A clinical, biochemical and genetic study. *Neuromuscul Disord.* Dec;22(12):1075-82.

38. 2012 **Pastore A**, Di Giovamberardino G, Petrillo S, Boenzi S, Bertini E, Dionisi-Vici C, Piemonte F. Paediatric Reference Intervals For Muscle Coenzyme Q₁₀. Biomarkers, Dec;17(8):764-6.

39. 2012 Martinelli D, Catteruccia M, Piemonte F, **Pastore A**, Tozzi G, Dionisi-Vici C, Pontrelli G, Corsetti T, Livadiotti S, Kheifets V, Hinman A, Shrader WD, Thoolen M, Klein MB, Bertini E, Miller G. EPI-743 reverses the progression of the pediatric mitochondrial disease-Genetically defined Leigh Syndrome. *Mol Genet Metab.* Nov;107(3):383-8.

40. 2012 S. Ubaldi, S. Bernasconi, M. Romano, S. Marchini, I. Fuso Nerini, G. Damia, M. Ganzinelli, E. Marangon, F. Sala, L. Clivio, G. Chiorino, S. Digiandomenico, M. Rocchi, O. Capozzi, G.P. Margison, A.J. Watson, A.M. Caccuri, **A. Pastore**, E. Erba

and M. D'Incalci. Characterization of a new trabectedin resistant myxoid liposarcoma cell line that shows collateral sensitivity to methylating agents. *International Journal of Cancer*; 131(1):59-69.

41. 2012 Terracciano A, Renaldo F, Zanni G, D'Amico A, **Pastore A**, Barresi S, Valente EM, Piemonte F, Tozzi G, Carrozzo R, Valeriani M, Boldrini R, Mercuri E, Santorelli FM, Bertini E. The use of muscle biopsy in the diagnosis of undefined ataxia with cerebellar atrophy in children. *European journal of paediatric neurology*; 16(3):248-256.

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ABSTRACTS CONGRESSI

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COMUNICAZIONI ORALI A CONGRESSI

1. Pastore A. Simultaneous assays of Ubiquinol and Ubiquinone by HPLC with Electrochemical Detection. Determination of the Pediatric Reference Intervals for Muscle Coenzyme Q₁₀. 4^o International Conference and Exhibition on Analytical & Bioanalytical Techniques. Las Vegas, NV, USA, 15-17 October **2013**.

2. **Pastore A.** Redox imbalance in long-chain fatty acid oxidation defects. Annual Symposium of the Society for the Study of Inborn Errors of Metabolism. Birmingham, UK, 4-7 September **2012**.
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4. **Pastore A.** Determination of leukocyte cysteine. Clinical importance for patient's follow-up. Auditorium AUSL. Frosinone, Italy, 20 Novembre **2004**.
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