



PERSONAL INFORMATION

ALESSANDRA PECORELLI

WORK EXPERIENCE

- Dates
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

From Oct 2015 – to Dec 2015

Department of Life Science and Biotechnologies, University of Ferrara, Ferrara, Italy
Scientific research

Postdoctoral Research Fellow

Scientific research: understanding the role of oxidative stress in the pathophysiological mechanisms of Rett syndrome with molecular and cellular approaches. The goal is to identify the biochemical pathways associated to redox homeostasis that are altered in RTT using *in vitro* models, such as fibroblasts and peripheral blood mononuclear cells (PBMC) isolated from patient skin biopsies and blood. A major focus is the characterization of mitochondrial dynamics and mitophagy. Writing scientific papers and grant proposals.

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- Main activities and responsibilities

From Dec 2014 – to Sept 2015

Child Neuropsychiatry Unit, University Hospital of Siena and Department of Molecular and Developmental Medicine, University of Siena, Siena, Italy.

Scientific research

Postdoctoral Research Fellow

Scientific research: understanding the role of oxidative stress in the pathophysiological mechanisms of Rett syndrome variants (CDKL5- and FOXP1-related disorders) with molecular and cellular approaches. The goal is to identify the biochemical pathways associated to redox homeostasis that are altered in CDKL5 and FOXP1 disorders using *in vitro* models, such as fibroblasts isolated from patient skin biopsies. A major focus is the characterization of the activity of Nrf2/ARE pathway. Writing scientific papers and grant proposals.

- Dates
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 - Occupation or position held
- Main activities and responsibilities

From Nov 2012 - to Aug 2014

Child Neuropsychiatry Unit, University Hospital of Siena and Department of Molecular and Developmental Medicine, University of Siena, Siena, Italy.

Scientific research

Postdoctoral Research Fellow

Scientific research: understanding the role of oxidative stress in the pathophysiological mechanisms of neurodevelopmental disorders (Rett syndrome and Autism) with molecular and cellular approaches. The goal is to identify the biochemical pathways associated to redox homeostasis that are altered in Rett syndrome using *in vitro* models such as fibroblasts and peripheral blood mononuclear cells (PBMC) isolated from Rett patients. A major focus is the characterization of the activity of endogenous oxidative enzymes (NOX, Xanthine oxidase, etc) and defensive systems (SOD, CAT, Gpx, etc) with special interest for Nrf2/ARE pathway. The molecular and cellular basis of oxidative stress in the pathophysiological mechanisms of neurological diseases, such as Epilepsy, Alzheimer and Multiple sclerosis. Writing scientific papers and grant proposals. Tutor activity for undergraduate students during laboratory experiences for master theses in Medicine and Biological Science.

- Dates
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

From Oct 2009 - to Nov 2012

Department of Molecular and Developmental Medicine, University of Siena, Siena, Italy.

Scientific research

Ph.D. Student in Cell Biology and Pathophysiology graduate program

Scientific research: understanding the role of redox imbalance in the pathophysiological mechanisms of neurodevelopmental disorders (Rett syndrome and Autism) by analysing the levels of oxidative stress markers using both human biological samples (plasma, red blood cells, peripheral blood mononuclear cells) and in vivo models (Rett syndrome mice). Writing scientific papers and grant proposals. Tutor activity for undergraduate students during laboratory experiences for master theses in Biological Science.

- Dates
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

From Sept 2005 - to Aug 2009

Department of Physiology, University of Siena, Siena, Italy.

Scientific research

Research Fellow

Scientific research: 1) the histological and molecular aspects of inflammatory diseases (myopathies, appendicitis, chalazion); 2) the molecular mechanisms of physiological responses to prolonged exercise (regulation of glucocorticoids receptors in peripheral blood mononuclear cells of high trained swimmers); 3) the pathophysiological responses in vitro and / or in vivo (human cell lines and / or mouse models) to exogenously applied stressors including ozone and cigarette smoke; 4) the molecular mechanisms of action of rottlerin, a pharmacologically active compound, in human cell lines (keratinocytes and endothelial cells); 5) the pathophysiology of free radicals and oxidative stress and the immune system modulation in skin diseases (psoriasis, vitiligo). Writing scientific papers and grant proposals. Tutor activity for undergraduate students during laboratory experiences for master theses in Pharmacy and Biological Science.

EDUCATION AND TRAINING

- Dates
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

February 2013

Doctoral School in Cell Biology and Pathophysiology at the Department of Pathophysiology, Experimental Medicine and Public Health, University of Siena, Siena, Italy.

Research on molecular and cellular basis of oxidative stress in the pathophysiological mechanisms of neurodevelopmental disorders (Rett syndrome and Autism) and neurodegenerative diseases (Alzheimer, Multiple sclerosis and Epilepsy).

Ph.D. in Cell Biology and Pathophysiology

- Dates
- Name and type of organization providing education and training
- Title of qualification awarded

July 2005

University of Siena, Siena, Italy

Qualification to practice as a Pharmacist

- Dates
- Name and type of organization providing education and training
- Principal subjects/occupational skills covered

December 2004

Faculty of Pharmacy, University of Siena, Siena, Italy

Scientific, theoretical and practical training necessary for practicing the profession of pharmacist and to operate in the industrial and pharmaceutical sector: anatomy, physiology, pathology, biology, microbiology, mathematics, physics, general chemistry, analytical chemistry, organic chemistry, biochemistry, pharmaceutical botany, food chemistry, pharmacology, pharmacotherapy, pharmacognosy, toxicology, pharmaceutical technology, legislation, qualitative and quantitative analysis of drugs.

Master degree in Pharmacy approved with 110/110 magna cum laude

- Title of qualification awarded

- Dates
- Name and type of organization providing education and training

July 1996

Liceo Classico Statale "Mariano Buratti", Viterbo (VT), Italy

- Principal subjects/occupational skills covered
- Title of qualification awarded

Main subjects focusing on classical studies and humanities: Italian, Latin, Greek, History, Philosophy, Mathematics, Physics, Chemistry, Biology, Geography, Computer Science, French, Art History.

High School Degree approved with 50/60

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

ENGLISH

- Reading skills
- Writing skills
- Verbal skills

PROFESSIONAL KNOWLEDGE

PROFESSIONAL KNOWLEDGE

BASIC

SOCIAL SKILLS
AND COMPETENCES

Team-working spirit and ability to manage and adapt to group dynamics and organizational changes; adapting to work in multicultural environments after national and international working collaborations; these skills were gained through work experiences as research fellow at Siena University during last ten years.

ORGANIZATIONAL SKILLS
AND COMPETENCES

Ability to manage multiple assignments and tasks within an allotted timeframe, set priorities, and adapt to changing conditions and work assignments;

Ability to find solutions to problems using my creativity, reasoning, and past experiences along with the available information and resources;

These skills were gained through my work as research fellow at Siena University during last ten years.

TECHNICAL SKILLS
AND COMPETENCES

Cell Biology Techniques:

- strong knowledge in techniques like cell culture, primary cell culture (fibroblasts from skin biopsies), cell co-culture techniques, cell culture-based assays;
- isolation and characterization of blood cell populations (lymphocytes, granulocytes and macrophages) using ficoll;
- procedure and analysis of proliferation assays (MTT, BrdU), tube formation assays (matrigel), migration assays, hypoxic chamber assays, apoptosis assays, LDH assays, etc.;
- cell transfection.

Molecular Biology Techniques:

- extraction, purification and quantification of DNA and RNA from cells, tissues and blood;
- agarose gel electrophoresis and spectrophotometric analysis of nucleic acids;
- qualitative RT-PCR and real-time PCR;
- synthesis of digoxigenin-labeled DNA probes;
- in vitro genotoxicity screening: Comet assay, DNA ladder assay;
- protein electrophoresis;
- Western blotting;
- immunoprecipitation;
- immuno-enzymatic methods (ELISA);
- in situ hybridization with digoxigenin-labeled DNA probes.

Immunological Techniques:

- histological techniques such as immunohistochemistry, immunocytochemistry, immunofluorescence;
- light and fluorescence microscopy;
- image analysis.

Other Technical skills:

COMPUTER SKILLS
AND COMPETENCES

- biomechanical analysis;
- knowledge of chromatography;
- predisposition to working with lab animals;
- skills in writing scientific papers and grant proposals;
- technical report writing, presentation, as well as data collection and analysis abilities.

DRIVING LICENCE(S)

B

- good knowledge of Windows;
- basic knowledge of Mac OS;
- good command of Microsoft Office tools (Word, Excel, and PowerPoint);
- good knowledge of graphic design applications (Adobe Photoshop);
- good knowledge of Web browsers (Microsoft Internet Explorer, Google Chrome) and e-mail applications (Microsoft Outlook);
- good knowledge of software for image analysis (ImageJ);
- medical and scientific database use for professional purposes (Medline);
- knowledge of on-line server such as: blast, uniprot, genecards, string, etc.;
- in 2009, I achieved ECDL (European Computer Driving License).

AWARDS	• Winner of the "Young Investigator Award" by OCC (Oxygen Club of California) for poster titled "Alteration of serum lipid profile, SRB1 loss and impaired Nrf2 activation in CDKL5 disorder" at the World Congress "OXIDANTS AND ANTIOXIDANTS IN BIOLOGY", Valencia, Spain, 24-26 June 2015. • Winner of the "Young Investigator Award" by OCC (Oxygen Club of California) for poster titled "Increased Oxidative Stress Levels And MMPs Activation In Drug-resistant Epileptic Brain". "Second International Conference on Environmental Stressors in Biology and Medicine", Siena, Italy, 5-7 October 2011.
ADDITIONAL INFORMATION	• Sub Investigator, Edison Pharmaceuticals Inc. sponsored Clinical Trial: "A Phase 2A Randomized, Placebo Controlled Trial of EPI-743 in Children With Rett Syndrome". From Mar. 2013 to Dec. 2013. • Ad hoc peer reviewer for international journals: BioMed Research International, Mediators of Inflammation, Oxidative Medicine and Cellular Longevity, Annals of the New York Academy of Sciences, Nutrition Research. • Supervisor for several Bachelor thesis in Pharmacy, Biology and Medicine at the University of Siena, Siena, Italy and University of Ferrara, Ferrara, Italy. • Training on Comet assay at ENEA, Institute of Radiation Protection, CR Casaccia, Roma, Italy, March 2011. • Collaborator in the organization of the "International Conference on Environmental Stressors in Biology and Medicine". University of Siena, Siena. 4-6 June 2008. • Internship and Thesis Preparation at Department of Physiology, University of Siena, Siena, Italy. From Apr. 2003 to Dic. 2004. • Training in pharmacy, "Farmacia Mecucci E.", Caprarola (VT), Italy. From Apr. 2002 to Dic. 2002.
SEMINARS/CONFERENCES/ WORKSHOPS ATTENDED	• Essential Protein Purification Tour 2011, All you need to know, nothing you don't – why resist?, University of Siena, Siena, Italy, May 11, 2011. • International Conference: Mechanisms of Inflammation and Wound Healing, Istituto Dermopatico dell'Immacolata, Roma, Italy, June 19, 2009. • Refresher brightfield microscopy course for using the "Software Automesure Upgrade AxioVision", Zeiss, University of Siena, Siena, Italy, January 23, 2008. • International Meeting: The endothelium: regulation and regeneration, University of Padova, Padova, Italy, November 22-23, 2007. • Workshop "Vitamins Scientific Workshop", Bayer's Communication Center, Milano, Italy, November 17, 2006.

ORIGINAL RESEARCH ARTICLES

1. Magnani ND, Muresan XM, Belmonte G, Cervellati F, Sticozzi C, **Pecorelli A**, Miracco C, Marchini T, Evelson P, Valacchi G. Skin Damage Mechanisms Related to Airborne Particulate Matter Exposure. *Toxicol Sci.* 2016;149(1):227-36.
2. Cortelazzo A, De Felice C, Guerranti R, Signorini C, Leoncini S, **Pecorelli A**, Scalabri F, Madonna M, Filosa S, Della Giovampaola C, Capone A, Durand T, Mirasole C, Zolla L, Valacchi G, Ciccoli L, Guy J, D'Esposito M, Hayek J. Abnormal N-glycosylation pattern for brain nucleotide pyrophosphatase-5 (NPP-5) in Mecp2-mutant murine models of Rett syndrome. *Neurosci Res.* 2015. pii: S0168-0102(15)00234-5.
3. **Pecorelli A**, Cervellati F, Belmonte G, Montagner G, Waldon P, Hayek J, Gambari R, Valacchi G. Cytokines profile and peripheral blood mononuclear cells morphology in Rett and autistic patients. *Cytokine.* 2016;77:180-8.
4. Cervellati C, Sticozzi C, Romani A, Belmonte G, De Rasmio D, Signorile A, Cervellati F, Milanese C, Mastroberardino PG, **Pecorelli A**, Savelli V, Forman HJ, Hayek J, Valacchi G. Impaired enzymatic defensive activity, mitochondrial dysfunction and proteasome activation are involved in RTT cell oxidative damage. *Biochim Biophys Acta.* 2015;1852(10 Pt A):2066-74.
5. **Pecorelli A**, Belmonte G, Meloni I, Cervellati F, Gardi C, Sticozzi C, De Felice C, Signorini C, Cortelazzo A, Leoncini S, Ciccoli L, Renieri A, Jay Forman H, Hayek J, Valacchi G. Alteration of serum lipid profile, SRB1 loss, and impaired Nrf2 activation in CDKL5 disorder. *Free Radic Biol Med.* 2015; 86:156-65.
6. Ciccoli L, De Felice C, Leoncini S, Signorini C, Cortelazzo A, Zollo G, **Pecorelli A**, Rossi M, Hayek J. Red blood cells in Rett syndrome: oxidative stress, morphological changes and altered membrane organization. *Biol Chem.* 2015;396(11):1233-40.
7. Filosa S, Pecorelli A, D'Esposito M, Valacchi G, Hayek J. Exploring the possible link between MeCP2 and oxidative stress in Rett syndrome. *Free Radic Biol Med.* 2015. pii: S0891-5849(15)00182-3.
8. Ahlqvist K, Leoncini S, **Pecorelli A**, Wortmann S, Ahola S, Forsström S, Guerranti R, De Felice C, Smeitink J, Ciccoli L, Hämäläinen R, Suomalainen A. MtDNA mutagenesis impairs elimination of mitochondria during erythroid maturation leading to enhanced erythrocyte destruction. *Nat Commun.* 2015. IF: 10.742
9. Valacchi G, Maioli E, Sticozzi C, Cervellati F, **Pecorelli A**, Cervellati C, Hayek J. Exploring the link between SRB1 expression and COPD pathogenesis. *Ann N Y Acad Sci.* 2015. IF: 4.375
10. Rom O, **Pecorelli A**, Valacchi G, Reznick AZ. Are E-cigarettes a safe and good alternative to cigarette smoking? *Ann N Y Acad Sci.* 2014. doi:10.1111/nyas.12609. IF: 4.375
11. **Pecorelli A**, Natrella F, Belmonte G, Miracco C, Cervellati F, Ciccoli L, Mariottini A, Rocchi R, Vatti G, Bua A, Canitano R, Hayek J, Forman HJ, Valacchi G. NADPH oxidase activation and 4-hydroxy-2-nonenal/aquaporin-4 adducts as possible new players in oxidative neuronal damage presents in drug-resistant epilepsy. *Biochim Biophys Acta.* 2014; 1852:507-519. IF: 5.089
12. Papini AM, Nuti F, Real-Fernandez F, Rossi G, Tiberi C, Sabatino G, Pandey S, Leoncini S, Signorini C, **Pecorelli A**, Guerranti R, Lavielle S, Ciccoli S, Rovero P, De Felice C, Hayek J. Immune Dysfunction in Rett Syndrome Patients Revealed by High Levels of Serum Anti-N(Glc) IgM Antibody Fraction. *J Immunol Res.* 2014; 2014: 260973, 6 pages. IF: 2.934
13. Signorini C, De Felice C, Leoncini S, Durand T, Galano JM, Cortelazzo A, Zollo G, Guerranti R, Gonnelli S, Caffarelli C, Rossi M, **Pecorelli A**, Valacchi G, Ciccoli L, Hayek J. Altered erythrocyte membrane fatty acid profile in typical Rett syndrome: Effects of omega-3 polyunsaturated fatty acid supplementation. *Prostaglandins Leukot Essent Fatty Acids.* 2014. 91:183-193. IF: 1.984
14. Signorini C, Leoncini S, De Felice C, **Pecorelli A**, Meloni I, Ariani F, Mari F, Amabile S, Paccagnini E, Gentile M, Belmonte G, Zollo G, Valacchi G, Durand T, Galano JM, Ciccoli L, Renieri A, Hayek J. Redox imbalance and morphological changes in skin fibroblasts in typical Rett syndrome. *Oxid Med Cell Longev.* 2014;2014:195935. IF: 3.363
15. De Felice C, Della Ragione F, Signorini C, Leoncini S, **Pecorelli A**, Ciccoli L, Scalabri F, Marracino F, Madonna M, Belmonte G, Ricceri L, De Filippis B, Laviola G, Valacchi G, Durand T, Galano JM, Oger C, Guy A, Bultel-Poncé V, Guy J, Filosa S, Hayek J, D'Esposito M. Oxidative brain damage in Mecp2-mutant murine models of Rett syndrome. *Neurobiol Dis.* 2014; 68:66-77. IF: 5.202
16. Cortelazzo A, De Felice C, **Pecorelli A**, Belmonte G, Signorini C, Leoncini S, Zollo G, Capone A, Giovampaola CD, Sticozzi C, Valacchi G, Ciccoli L, Guerranti R, Hayek J. Beta-actin deficiency with oxidative posttranslational modifications in Rett syndrome erythrocytes: insights into an altered cytoskeletal organization. *PLoS One.* 2014;9(3):e93181. IF: 3.534
17. De Felice C, Signorini C, Leoncini S, **Pecorelli A**, Durand T, Valacchi G, Ciccoli L, Hayek J. [Oxidative stress and Rett syndrome.]. *Minerva Pediatr.* 2014;66(1):41-62. IF: 0.723
18. Maffei S, De Felice C, Cannarile P, Leoncini S, Signorini C, **Pecorelli A**, Montomoli B, Lunghetti S, Ciccoli L, Durand T, Favilli R, Hayek J. Effects of ω -3 PUFAs supplementation on myocardial function and oxidative stress markers in typical Rett syndrome. *Mediators Inflamm.* 2014;2014:983178. IF: 2.417

19. Cortelazzo A, De Felice C, Guerranti R, Signorini C, Leoncini S, **Pecorelli A**, Zollo G, Landi C, Valacchi G, Ciccoli L, Bini L, Hayek J. Subclinical inflammatory status in Rett syndrome. *Mediators Inflamm.* 2014;2014:480980. IF: 2.417
20. Cortelazzo A, Guerranti R, De Felice C, Signorini C, Leoncini S, **Pecorelli A**, Landi C, Bini L, Montomoli B, Sticozzi C, Ciccoli L, Valacchi G, Hayek J. A plasma proteomic approach in Rett syndrome: classical versus preserved speech variant. *Mediators Inflamm.* 2013;2013:438653. IF: 2.417
21. Ciccoli L, De Felice C, Paccagnini E, Leoncini S, **Pecorelli A**, Signorini C, Belmonte G, Guerranti R, Cortelazzo A, Gentile M, Zollo G, Durand T, Valacchi G, Rossi M, Hayek J. Erythrocyte shape abnormalities, membrane oxidative damage, and β -actin alterations: an unrecognized triad in classical autism. *Mediators Inflamm.* 2013;2013:432616. IF: 2.417
22. **Pecorelli A**, Leoni G, Cervellati F, Canali R, Signorini C, Leoncini S, Cortelazzo A, De Felice C, Ciccoli L, Hayek J, Valacchi G. Genes related to mitochondrial functions, protein degradation, and chromatin folding are differentially expressed in lymphomonocytes of Rett syndrome patients. *Mediators Inflamm.* 2013;2013:137629. IF: 2.417
23. De Felice C, Cortelazzo A, Signorini C, Guerranti R, Leoncini S, **Pecorelli A**, Durand T, Galano JM, Oger C, Zollo G, Montomoli B, Landi C, Bini L, Valacchi G, Ciccoli L, Hayek J. Effects of ω -3 polyunsaturated fatty acids on plasma proteome in Rett syndrome. *Mediators Inflamm.* 2013;2013:723269. IF: 2.417
24. De Felice C, Rossi M, Leoncini S, Chisci G, Signorini C, Lonetti G, Vannuccini L, Spina D, Ginori A, Iacona I, Cortelazzo A, **Pecorelli A**, Valacchi G, Ciccoli L, Pizzorusso T, Hayek J. Inflammatory Lung Disease in Rett Syndrome. *Mediators Inflamm.* 2013;2013:560120. IF: 2.417
25. Signorini C, De Felice C, Durand T, Oger C, Galano JM, Leoncini S, **Pecorelli A**, Valacchi G, Ciccoli L, Hayek J. Isoprostanes and 4-hydroxy-2-nonenal: markers or mediators of disease? Focus on Rett syndrome as a model of autism spectrum disorder. *Oxid Med Cell Longev.* 2013;2013:343824. IF: 3.363
26. Volpi N, **Pecorelli A**, Lorenzoni P, Di Lazzaro F, Belmonte G, Aglianò M, Cantarini L, Giannini F, Grasso G, Valacchi G. Antiangiogenic VEGF isoform in inflammatory myopathies. *Mediators Inflamm.* 2013;2013:219313. IF: 2.417
27. Sticozzi C, Belmonte G, **Pecorelli A**, Cervellati F, Leoncini S, Signorini C, Ciccoli L, De Felice C, Hayek J, Valacchi G. Scavenger receptor B1 post-translational modifications in Rett syndrome. *FEBS Lett.* 2013;587(14):2199-204. IF: 3.341
28. Grillo E, Lo Rizzo C, Bianciardi L, Bizzarri V, Baldassarri M, Spiga O, Furini S, De Felice C, Signorini C, Leoncini S, **Pecorelli A**, Ciccoli L, Mencarelli MA, Hayek J, Meloni I, Ariani F, Mari F, Renieri A. Revealing the complexity of a monogenic disease: rett syndrome exome sequencing. *PLoS One.* 2013;8(2):e56599. IF: 3.534
29. **Pecorelli A**, Bocci V, Acquaviva A, Belmonte G, Gardi C, Virgili F, Ciccoli L, Valacchi G. NRF2 activation is involved in ozonated human serum upregulation of HO-1 in endothelial cells. *Toxicol Appl Pharmacol.* 2013;267(1):30-40. IF: 3.630
30. Durand T, De Felice C, Signorini C, Oger C, Bultel-Poncé V, Guy A, Galano JM, Leoncini S, Ciccoli L, **Pecorelli A**, Valacchi G, Hayek J. F(2)-Dihomo-isoprostanes and brain white matter damage in stage 1 Rett syndrome. *Biochimie.* 2013;95(1):86-90. IF: 3.123
31. **Pecorelli A**, Leoncini S, De Felice C, Signorini C, Cerrone C, Valacchi G, Ciccoli L, Hayek J. Non-protein-bound iron and 4-hydroxynonenal protein adducts in classic autism. *Brain Dev.* 2013;35(2):146-54. IF: 1.542
32. De Felice C, Leoncini S, Signorini C, **Pecorelli A**, Durand T, Galano JM, Oger C, Cortelazzo A, Montomoli B, Zollo G, Valacchi G, Ciccoli L, Hayek J. Acidi grassi ω -3 nella sindrome di Rett. *Studio clinico al primo stadio della malattia. L'integratore Nutrizionale.* 2013; 16(2):9-14.
33. De Felice C, Signorini C, Leoncini S, **Pecorelli A**, Durand T, Galano JM, Bultel-Poncé V, Guy A, Oger C, Zollo G, Valacchi G, Ciccoli L, Hayek J. Fatty Acids and Autism Spectrum Disorders: The Rett Syndrome Conundrum. *Food and Nutrition Sciences.* 2013, 4, 71-75.
34. Valacchi G, Sticozzi C, **Pecorelli A**, Cervellati F, Cervellati C, Maioli E. Cutaneous responses to environmental stressors. *Ann N Y Acad Sci.* 2012;1271:75-81. IF: 4.375
35. De Felice C, Signorini C, Leoncini S, **Pecorelli A**, Durand T, Valacchi G, Ciccoli L, Hayek J. The role of oxidative stress in Rett syndrome: an overview. *Ann N Y Acad Sci.* 2012;1259:121-35. IF: 4.375
36. Sticozzi C, Belmonte G, **Pecorelli A**, Arezzini B, Gardi C, Maioli E, Miracco C, Toscano M, Forman HJ, Valacchi G. Cigarette smoke affects keratinocytes SRB1 expression and localization via H2O2 production and HNE protein adducts formation. *PLoS One.* 2012;7(3):e33592. IF: 3.730
37. De Felice C, Signorini C, Durand T, Ciccoli L, Leoncini S, D'Esposito M, Filosa S, Oger C, Guy A, Bultel-Poncé V, Galano JM, **Pecorelli A**, De Felice L, Valacchi G, Hayek J. Partial rescue of Rett syndrome by ω -3 polyunsaturated fatty acids (PUFAs) oil. *Genes Nutr.* 2012;7(3):447-58. IF: 3.329
38. Sticozzi C, **Pecorelli A**, Lim Y, Maioli E, Pagnin E, Davis PA, Valacchi G. Modulation of skin oxidative stress and inflammatory markers by environmental stressors. Differences between young and old. *J Dermatol Sci.* 2012;65(3):226-8. IF: 3.520
39. Ciccoli L, De Felice C, Paccagnini E, Leoncini S, **Pecorelli A**, Signorini C, Belmonte G, Valacchi G,

- Rossi M, Hayek J. Morphological changes and oxidative damage in Rett Syndrome erythrocytes. *Biochim Biophys Acta General Subjects*. 2012;1820(4):511-20. IF: 3.848
40. Valacchi G, Sticozzi C, Lim Y, **Pecorelli A**. Scavenger receptor class B type I: a multifunctional receptor. *Ann N Y Acad Sci*. 2011;1229:E1-7. IF: 3.155
 41. De Felice C, Signorini C, Durand T, Oger C, Guy A, Bultel-Poncé V, Galano JM, Ciccoli L, Leoncini S, D'Esposito M, Filosa S, **Pecorelli A**, Valacchi G, Hayek J. F2-dihomo-isoprostanes as potential early biomarkers of lipid oxidative damage in Rett syndrome. *J Lipid Res*. 2011;52(12):2287-97. IF: 5.559
 42. Leoncini S, De Felice C, Signorini C, **Pecorelli A**, Durand T, Valacchi G, Ciccoli L, Hayek J. Oxidative stress in Rett syndrome: natural history, genotype, and variants. *Redox Rep*. 2011;16(4):145-53. IF: 1.732
 43. Signorini C, De Felice C, Leoncini S, Giardini A, D'Esposito M, Filosa S, Della Ragione F, Rossi M, **Pecorelli A**, Valacchi G, Ciccoli L, Hayek J. F4-neuroprostanes mediate neurological severity in Rett syndrome. *Clin Chim Acta*. 2011;412(15-16):1399-406. IF: 2.535
 44. Valacchi G, **Pecorelli A**, Sticozzi C, Torricelli C, Muscettola M, Aldinucci C, Maioli E. Rottlerin exhibits antiangiogenic effects in vitro. *Chem Biol Drug Des*. 2011;77(6):460-70. IF: 2.282
 45. Pastore S, Mariani V, Lulli D, Gubinelli E, Raskovic D, Mariani S, Stancato A, de Luca C, **Pecorelli A**, Valacchi G, Potapovich AI, Kostyuk VA, Korkina LG. Glutathione peroxidase activity in the blood cells of psoriatic patients correlates with their responsiveness to Efalizumab. *Free Radic Res*. 2011;45(5):585-99. IF: 2.878
 46. **Pecorelli A**, Ciccoli L, Signorini C, Leoncini S, Giardini A, D'Esposito M, Filosa S, Hayek J, De Felice C, Valacchi G. Increased levels of 4HNE-protein plasma adducts in Rett syndrome. *Clin Biochem*. 2011;44(5-6):368-71. IF: 2.076
 47. Valacchi G, Davis PA, Khan EM, Lanir R, Maioli E, **Pecorelli A**, Cross CE, Goldkorn T. Cigarette smoke exposure causes changes in Scavenger Receptor B1 level and distribution in lung cells. *Int J Biochem Cell Biol*. 2011;43(7):1065-70. IF: 4.634
 48. Sticozzi C, **Pecorelli A**, Belmonte G, Valacchi G. Cigarette Smoke Affects ABCA1 Expression via Liver X Receptor Nuclear Translocation in Human Keratinocytes. *Int J Mol Sci*. 2010;11(9):3375-86. IF: 2.279
 49. Vecchio D, Arezzini B, **Pecorelli A**, Valacchi G, Martorana PA, Gardi C. Reactivity of mouse alveolar macrophages to cigarette smoke is strain dependent. *Am J Physiol Lung Cell Mol Physiol*. 2010 May;298(5):L704-13. IF: 4.137
 50. Kostyuk VA, Potapovich AI, Cesareo E, Brescia S, Guerra L, Valacchi G, **Pecorelli A**, Deeva IB, Raskovic D, De Luca C, Pastore S, Korkina LG. Dysfunction of glutathione S-transferase leads to excess 4-hydroxy-2-nonenal and H(2)O(2) and impaired cytokine pattern in cultured keratinocytes and blood of vitiligo patients. *Antioxid Redox Signal*. 2010;13(5):607-20. IF : 8.209
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