

Bibliography

- BARONE E., CENINI G., DI DOMENICO F., NOEL T., WANG C., PERLUIGI M., ST CLAIR D.K. et BUTTERFIELD D.A., « Basal brain oxidative and nitratative stress levels are finely regulated by the interplay between superoxide dismutase 2 and p53 », *Journal of Neuroscience Research*, novembre 2015, [PMID: 26251011 PMCID: PMC4575647], vol. 93, n° 11, 1728-1739, DOI : 10.1002/jnr.23627.
- BARONE E., CENINI G., SULTANA R., DI DOMENICO F., FIORINI A., PERLUIGI M., NOEL T., WANG C., MANCUSO C., ST CLAIR D.K. et BUTTERFIELD D.A., « Lack of p53 decreases basal oxidative stress levels in the brain through upregulation of thioredoxin-1, biliverdin reductase-A, manganese superoxide dismutase, and nuclear factor kappa-B », *Antioxidants & Redox Signaling*, 15 juin 2012, [PMID: 22229939 PMCID: PMC3329952], vol. 16, n° 12, 1407-1420, DOI : 10.1089/ars.2011.4124.
- BARONE E., DI DOMENICO F., CASSANO T., ARENA A., TRAMUTOLA A., LAVECCHIA M.A., COCCIA R., BUTTERFIELD D.A. et PERLUIGI M., « Impairment of biliverdin reductase-A promotes brain insulin resistance in Alzheimer disease: A new paradigm », *Free Radical Biology & Medicine*, 15 décembre 2015, [PMID: 26698666], vol. 91, 127-142, DOI : 10.1016/j.freeradbiomed.2015.12.012.
- BARONE E., DI DOMENICO F., CENINI G., SULTANA R., CINI C., PREZIOSI P., PERLUIGI M., MANCUSO C. et BUTTERFIELD D.A., « Biliverdin reductase--a protein levels and activity in the brains of subjects with Alzheimer disease and mild cognitive impairment », *Biochimica Et Biophysica Acta*, avril 2011, [PMID: 21241799 PMCID: PMC3042515], vol. 1812, n° 4, 480-487, DOI : 10.1016/j.bbadi.2011.01.005.
- BARONE E., DI DOMENICO F., CENINI G., SULTANA R., COCCIA R., PREZIOSI P., PERLUIGI M., MANCUSO C. et BUTTERFIELD D.A., « Oxidative and nitrosative modifications of biliverdin reductase-A in the brain of subjects with Alzheimer's disease and amnestic mild cognitive impairment », *Journal of Alzheimer's disease: JAD*, 2011, [PMID: 21483094], vol. 25, n° 4, 623-633, DOI : 10.3233/JAD-2011-110092.
- BARONE E., DI DOMENICO F., SULTANA R., COCCIA R., MANCUSO C., PERLUIGI M. et BUTTERFIELD D.A., « Heme oxygenase-1 posttranslational modifications in the brain of subjects with Alzheimer disease and mild cognitive impairment », *Free Radical Biology & Medicine*, 1 juin 2012, [PMID: 22549002 PMCID: PMC3377854], vol. 52, n° 11-12, 2292-2301, DOI : 10.1016/j.freeradbiomed.2012.03.020.
- BUTTERFIELD D.A., DI DOMENICO F., SWOMLEY A.M., HEAD E. et PERLUIGI M., « Redox proteomics analysis to decipher the neurobiology of Alzheimer-like neurodegeneration: overlaps in Down's syndrome and Alzheimer's disease brain », *The Biochemical Journal*, 15 octobre 2014, [PMID: 25242166 PMCID: PMC4686233], vol. 463, n° 2, 177-189, DOI : 10.1042/BJ20140772.
- BUTTERFIELD D.A., PERLUIGI M., REED T., MUHARIB T., HUGHES C.P., ROBINSON R.A.S. et SULTANA R., « Redox proteomics in selected neurodegenerative disorders: from its infancy to future applications », *Antioxidants & Redox Signaling*, 1 décembre 2012, [PMID: 22115501 PMCID: PMC3448942], vol. 17, n° 11, 1610-1655, DOI : 10.1089/ars.2011.4109.
- BUTTERFIELD D.A., PERLUIGI M. et SULTANA R., « Oxidative stress in Alzheimer's disease brain: new insights from redox proteomics », *European Journal of Pharmacology*, 1 septembre 2006, [PMID: 16860790], vol. 545, n° 1, 39-50, DOI : 10.1016/j.ejphar.2006.06.026.
- BUTTERFIELD D.A., REED T., PERLUIGI M., DE MARCO C., COCCIA R., CINI C. et SULTANA R., « Elevated protein-bound levels of the lipid peroxidation product, 4-hydroxy-2-nonenal, in brain from persons with mild cognitive impairment », *Neuroscience Letters*, 24 avril 2006, [PMID: 16413966], vol. 397, n° 3, 170-173, DOI : 10.1016/j.neulet.2005.12.017.
- BUTTERFIELD D.A., REED T.T., PERLUIGI M., DE MARCO C., COCCIA R., KELLER J.N., MARKESBERY W.R. et SULTANA R., « Elevated levels of 3-nitrotyrosine in brain from subjects with amnestic mild cognitive impairment: implications for the role of nitration in the progression of Alzheimer's disease », *Brain Research*, 7 mai 2007, [PMID: 17395167 PMCID: PMC1934617], vol. 1148, 243-248, DOI : 10.1016/j.brainres.2007.02.084.
- CALABRESE V., MANCUSO C., RAVAGNA A., PERLUIGI M., CINI C., DE MARCO C., BUTTERFIELD D.A. et STELLA A.M.G., « In vivo induction of heat shock proteins in the substantia nigra following L-DOPA administration is associated with increased activity of mitochondrial complex I and nitrosative stress in rats: regulation by glutathione redox state », *Journal of Neurochemistry*, mai 2007, [PMID: 17241115], vol. 101, n° 3, 709-717, DOI : 10.1111/j.1471-4159.2006.04367.x.
- CENINI G., FIORINI A., SULTANA R., PERLUIGI M., CAI J., KLEIN J.B., HEAD E. et BUTTERFIELD D.A., « An investigation of the molecular mechanisms engaged before and after the development of Alzheimer disease neuropathology in Down syndrome: a proteomics approach », *Free Radical Biology & Medicine*, novembre 2014, [PMID: 25151119 PMCID: PMC4252833], vol. 76, 89-95, DOI : 10.1016/j.freeradbiomed.2014.08.006.

- COCCIA R., SPADACCIO C., FOPPOLI C., PERLUIGI M., COVINO E., LUSINI M. et CHELLO M., « The effect of simvastatin on erythrocyte membrane fluidity during oxidative stress induced by cardiopulmonary bypass: a randomized controlled study », *Clinical Therapeutics*, août 2007, [PMID: 17919551], vol. 29, n° 8, 1706-1717, DOI : 10.1016/j.clinthera.2007.08.010.
- COCCIOLO A., DI DOMENICO F., COCCIA R., FIORINI A., CAI J., PIERCE W.M., MECOCCI P., BUTTERFIELD D.A. et PERLUIGI M., « Decreased expression and increased oxidation of plasma haptoglobin in Alzheimer disease: Insights from redox proteomics », *Free Radical Biology & Medicine*, 15 novembre 2012, [PMID: 23000119], vol. 53, n° 10, 1868-1876, DOI : 10.1016/j.freeradbiomed.2012.08.596.
- DE MARCO F., BUCAJ E., FOPPOLI C., FIORINI A., BLARZINO C., FILIPI K., GIORGI A., SCHININA M.E., DI DOMENICO F., COCCIA R., BUTTERFIELD D.A. et PERLUIGI M., « Oxidative stress in HPV-driven viral carcinogenesis: redox proteomics analysis of HPV-16 dysplastic and neoplastic tissues », *PloS One*, 2012, [PMID: 22470562 PMCID: PMC3314612], vol. 7, n° 3, e34366, DOI : 10.1371/journal.pone.0034366.
- DE MARCO F., FOPPOLI C., COCCIA R., BLARZINO C., PERLUIGI M., CINI C. et MARCANTE M.L., « Ectopic deposition of melanin pigments as detoxifying mechanism: a paradigm for basal nuclei pigmentation », *Biochemical and Biophysical Research Communications*, 6 février 2004, [PMID: 14733954], vol. 314, n° 2, 631-637.
- DE MARCO F., PERLUIGI M., FOPPOLI C., BLARZINO C., CINI C., COCCIA R. et VENUTI A., « UVB irradiation down-regulates HPV-16 RNA expression: implications for malignant progression of transformed cells », *Virus Research*, décembre 2007, [PMID: 17683822], vol. 130, n° 1-2, 249-259, DOI : 10.1016/j.virusres.2007.06.018.
- DE MARCO F., PERLUIGI M., MARCANTE M.L., COCCIA R., FOPPOLI C., BLARZINO C. et ROSEI M.A., « Cytotoxicity of dopamine-derived tetrahydroisoquinolines on melanoma cells », *Biochemical Pharmacology*, 15 novembre 2002, [PMID: 12417263], vol. 64, n° 10, 1503-1512.
- DI DOMENICO F., BARONE E., MANCUSO C., PERLUIGI M., COCCIOLO A., MECOCCI P., BUTTERFIELD D.A. et COCCIA R., « HO-1/BVR-a system analysis in plasma from probable Alzheimer's disease and mild cognitive impairment subjects: a potential biochemical marker for the prediction of the disease », *Journal of Alzheimer's disease: JAD*, 2012, [PMID: 22776971], vol. 32, n° 2, 277-289, DOI : 10.3233/JAD-2012-121045.
- DI DOMENICO F., BARONE E., PERLUIGI M. et BUTTERFIELD D.A., « Strategy to reduce free radical species in Alzheimer's disease: an update of selected antioxidants », *Expert Review of Neurotherapeutics*, janvier 2015, [PMID: 25243342], vol. 15, n° 1, 19-40, DOI : 10.1586/14737175.2015.955853.
- DI DOMENICO F., CASALENA G., JIA J., SULTANA R., BARONE E., CAI J., PIERCE W.M., CINI C., MANCUSO C., PERLUIGI M., DAVIS C.M., ALKAYED N.J., BUTTERFIELD D.A. et BUTTERFIELD A.D., « Sex differences in brain proteomes of neuron-specific STAT3-null mice after cerebral ischemia/reperfusion », *Journal of Neurochemistry*, mai 2012, [PMID: 22394374 PMCID: PMC325362], vol. 121, n° 4, 680-692, DOI : 10.1111/j.1471-4159.2012.07721.x.
- DI DOMENICO F., CASALENA G., SULTANA R., CAI J., PIERCE W.M., PERLUIGI M., CINI C., BARACCA A., SOLAINI G., LENAZ G., JIA J., DZIENNIS S., MURPHY S.J., ALKAYED N.J. et BUTTERFIELD D.A., « Involvement of Stat3 in mouse brain development and sexual dimorphism: a proteomics approach », *Brain Research*, 29 novembre 2010, [PMID: 20875800 PMCID: PMC2975791], vol. 1362, 1-12, DOI : 10.1016/j.brainres.2010.09.074.
- DI DOMENICO F., COCCIA R., BUTTERFIELD D.A. et PERLUIGI M., « Circulating biomarkers of protein oxidation for Alzheimer disease: expectations within limits », *Biochimica Et Biophysica Acta*, décembre 2011, [PMID: 22019699], vol. 1814, n° 12, 1785-1795, DOI : 10.1016/j.bbapap.2011.10.001.
- DI DOMENICO F., COCCIA R., COCCIOLO A., MURPHY M.P., CENINI G., HEAD E., BUTTERFIELD D.A., GIORGI A., SCHININA M.E., MANCUSO C., CINI C. et PERLUIGI M., « Impairment of proteostasis network in Down syndrome prior to the development of Alzheimer's disease neuropathology: redox proteomics analysis of human brain », *Biochimica Et Biophysica Acta*, août 2013, [PMID: 23603808 PMCID: PMC3940071], vol. 1832, n° 8, 1249-1259, DOI : 10.1016/j.bbadi.2013.04.013.
- DI DOMENICO F., D DOMENICO F., CENINI G., SULTANA R., PERLUIGI M., UBERTI D., MEMO M. et BUTTERFIELD D.A., « Glutathionylation of the pro-apoptotic protein p53 in Alzheimer's disease brain: implications for AD pathogenesis », *Neurochemical Research*, avril 2009, [PMID: 19199029 PMCID: PMC2810644], vol. 34, n° 4, 727-733, DOI : 10.1007/s11064-009-9924-9.
- DI DOMENICO F., DE MARCO F. et PERLUIGI M., « Proteomics strategies to analyze HPV-transformed cells: relevance to cervical cancer », *Expert Review of Proteomics*, octobre 2013, [PMID: 24117203], vol. 10, n° 5, 461-472, DOI : 10.1586/14789450.2013.842469.
- DI DOMENICO F., FOPPOLI C., BLARZINO C., PERLUIGI M., PAOLINI F., MORICI S., COCCIA R., CINI C. et DE MARCO F., « Expression of human papilloma virus type 16 E5 protein in amelanotic melanoma cells regulates endo-cellular pH and restores tyrosinase activity », *Journal of experimental & clinical cancer research: CR*, 2009, [PMID: 19133143 PMCID: PMC2654431], vol. 28, 4, DOI : 10.1186/1756-9966-28-4.

- DI DOMENICO F., OWEN J.B., SULTANA R., SOWELL R.A., PERLUIGI M., CINI C., CAI J., PIERCE W.M. et BUTTERFIELD D.A., « The wheat germ agglutinin-fractionated proteome of subjects with Alzheimer's disease and mild cognitive impairment hippocampus and inferior parietal lobule: Implications for disease pathogenesis and progression », *Journal of Neuroscience Research*, décembre 2010, [PMID: 20936705], vol. 88, n° 16, 3566-3577, DOI : 10.1002/jnr.22528.
- DI DOMENICO F., PERLUIGI M. et BARONE E., « Biliverdin Reductase-A correlates with inducible nitric oxide synthase in atorvastatin treated aged canine brain », *Neural Regeneration Research*, 25 juillet 2013, [PMID: 25206501 PMCID: PMC4145901], vol. 8, n° 21, 1925-1937, DOI : 10.3969/j.issn.1673-5374.2013.21.001.
- DI DOMENICO F., PERLUIGI M. et BUTTERFIELD D.A., « Redox Proteomics in Human Biofluids: Sample Preparation, Separation and Immunochemical Tagging for Analysis of Protein Oxidation », *Methods in Molecular Biology (Clifton, N.J.)*, 2016, [PMID: 26235080], vol. 1303, 391-403, DOI : 10.1007/978-1-4939-2627-5_23.
- DI DOMENICO F., PUPO G., GIRALDO E., BADIA M.-C., MONLLOR P., LLORET A., EUGENIA SCHININA M., GIORGI A., CINI C., TRAMUTOLA A., BUTTERFIELD D.A., VIÑA J. et PERLUIGI M., « Oxidative signature of cerebrospinal fluid from mild cognitive impairment and Alzheimer disease patients », *Free Radical Biology & Medicine*, 8 décembre 2015, [PMID: 26675344], vol. 91, 1-9, DOI : 10.1016/j.freeradbiomed.2015.12.004.
- DI DOMENICO F., PUPO G., GIRALDO E., LLORET A., BADIA M.-C., SCHININA M.E., GIORGI A., BUTTERFIELD D.A., VINA J. et PERLUIGI M., « Autoantibodies Profile in Matching CSF and Serum from AD and aMCI patients: Potential Pathogenic Role and Link to Oxidative Damage », *Current Alzheimer Research*, 2016, [PMID: 26679861], vol. 13, n° 2, 112-122.
- DI DOMENICO F., PUPO G., MANCUSO C., BARONE E., PAOLINI F., ARENA A., BLARZINO C., SCHMITT F.A., HEAD E., BUTTERFIELD D.A. et PERLUIGI M., « Bach1 overexpression in Down syndrome correlates with the alteration of the HO-1/BVR-a system: insights for transition to Alzheimer's disease », *Journal of Alzheimer's disease: JAD*, 2015, [PMID: 25391381 PMCID: PMC4677575], vol. 44, n° 4, 1107-1120, DOI : 10.3233/JAD-141254.
- DI DOMENICO F., PUPO G., TRAMUTOLA A., GIORGI A., SCHININA M.E., COCCIA R., HEAD E., BUTTERFIELD D.A. et PERLUIGI M., « Redox proteomics analysis of HNE-modified proteins in Down syndrome brain: clues for understanding the development of Alzheimer disease », *Free Radical Biology & Medicine*, juin 2014, [PMID: 24675226 PMCID: PMC4686229], vol. 71, 270-280, DOI : 10.1016/j.freeradbiomed.2014.03.027.
- DI DOMENICO F., SULTANA R., BARONE E., PERLUIGI M., CINI C., MANCUSO C., CAI J., PIERCE W.M. et BUTTERFIELD D.A., « Quantitative proteomics analysis of phosphorylated proteins in the hippocampus of Alzheimer's disease subjects », *Journal of Proteomics*, 10 juin 2011, [PMID: 21515431 PMCID: PMC3119855], vol. 74, n° 7, 1091-1103, DOI : 10.1016/j.jprot.2011.03.033.
- DI DOMENICO F., SULTANA R., FERREE A., SMITH K., BARONE E., PERLUIGI M., COCCIA R., PIERCE W., CAI J., MANCUSO C., SQUILLACE R., WIENGELE M., DALLE-DONNE I., WOLOZIN B. et BUTTERFIELD D.A., « Redox proteomics analyses of the influence of co-expression of wild-type or mutated LRRK2 and Tau on *C. elegans* protein expression and oxidative modification: relevance to Parkinson disease », *Antioxidants & Redox Signaling*, 1 décembre 2012, [PMID: 22315971 PMCID: PMC3448940], vol. 17, n° 11, 1490-1506, DOI : 10.1089/ars.2011.4312.
- DI DOMENICO F., SULTANA R., TIU G.F., SCHEFF N.N., PERLUIGI M., CINI C. et BUTTERFIELD D.A., « Protein levels of heat shock proteins 27, 32, 60, 70, 90 and thioredoxin-1 in amnestic mild cognitive impairment: an investigation on the role of cellular stress response in the progression of Alzheimer disease », *Brain Research*, 28 mai 2010, [PMID: 20362559 PMCID: PMC2871982], vol. 1333, 72-81, DOI : 10.1016/j.brainres.2010.03.085.
- DI DOMENICO F., FOPPOLI C., COCCIA R. et PERLUIGI M., « Antioxidants in cervical cancer: chemopreventive and chemotherapeutic effects of polyphenols », *Biochimica Et Biophysica Acta*, mai 2012, [PMID: 22019724], vol. 1822, n° 5, 737-747, DOI : 10.1016/j.bbcan.2011.10.005.
- DI DOMENICO F., PERLUIGI M., BUTTERFIELD D.A., CORNELIUS C. et CALABRESE V., « Oxidative damage in rat brain during aging: interplay between energy and metabolic key target proteins », *Neurochemical Research*, décembre 2010, [PMID: 20963486], vol. 35, n° 12, 2184-2192, DOI : 10.1007/s11064-010-0295-z.
- DI DOMENICO F., PERLUIGI M., FOPPOLI C., BLARZINO C., COCCIA R., DE MARCO F., BUTTERFIELD D.A. et CINI C., « Protective effect of ferulic acid ethyl ester against oxidative stress mediated by UVB irradiation in human epidermal melanocytes », *Free Radical Research*, avril 2009, [PMID: 19274591], vol. 43, n° 4, 365-375, DOI : 10.1080/10715760902777329.
- FAMULARO G., PERLUIGI M., PIELUIGI M., COCCIA R., MASTROIACOVO P. et DE SIMONE C., « Microecology, bacterial vaginosis and probiotics: perspectives for bacteriotherapy », *Medical Hypotheses*, avril 2001, [PMID: 11339841], vol. 56, n° 4, 421-430, DOI : 10.1054/mehy.2000.1195.
- FIORINI A., KOUDRIAVTSEVA T., BUCAJ E., COCCIA R., FOPPOLI C., GIORGI A., SCHININA M.E., DI DOMENICO F., DE MARCO F. et PERLUIGI M., « Involvement of oxidative stress in occurrence of relapses in multiple sclerosis: the

- spectrum of oxidatively modified serum proteins detected by proteomics and redox proteomics analysis », *PloS One*, 2013, [PMID: 23762311 PMCID: PMC3676399], vol. 8, n° 6, e65184, DOI : 10.1371/journal.pone.0065184.
- FIORINI A., SULTANA R., BARONE E., CENINI G., PERLUIGI M., MANCUSO C., CAI J., KLEIN J.B., ST CLAIR D. et BUTTERFIELD D.A., « Lack of p53 affects the expression of several brain mitochondrial proteins: insights from proteomics into important pathways regulated by p53 », *PloS One*, 2012, [PMID: 23209608 PMCID: PMC3507874], vol. 7, n° 11, e49846, DOI : 10.1371/journal.pone.0049846.
- FIORINI A., SULTANA R., FÖRSTER S., PERLUIGI M., CENINI G., CINI C., CAI J., KLEIN J.B., FARR S.A., NIEHOFF M.L., MORLEY J.E., KUMAR V.B. et ALLAN BUTTERFIELD D., « Antisense directed against PS-1 gene decreases brain oxidative markers in aged senescence accelerated mice (SAMP8) and reverses learning and memory impairment: a proteomics study », *Free Radical Biology & Medicine*, décembre 2013, [PMID: 23777706 PMCID: PMC3855183], vol. 65, 1-14, DOI : 10.1016/j.freeradbiomed.2013.06.017.
- FOPPOLI C., DE MARCO F., BLARZINO C., PERLUIGI M., CINI C. et COCCIA R., « Biological response of human diploid keratinocytes to quinone-producing compounds: role of NAD(P)H:quinone oxidoreductase 1 », *The International Journal of Biochemistry & Cell Biology*, avril 2005, [PMID: 15694844], vol. 37, n° 4, 852-863, DOI : 10.1016/j.biocel.2004.11.002.
- FOPPOLI C., DE MARCO F., CINI C. et PERLUIGI M., « Redox control of viral carcinogenesis: The human papillomavirus paradigm », *Biochimica Et Biophysica Acta*, août 2015, [PMID: 25534611], vol. 1850, n° 8, 1622-1632, DOI : 10.1016/j.bbagen.2014.12.016.
- GIOVAGNOLI S., CASSANO T., PACE L., MAGINI A., POLCHI A., TANCINI B., PERLUIGI M., DE MARCO F., EMILIANI C. et DOLCETTA D., « Evaluation of a LC-MS method for everolimus preclinical determination in brain by using [(13)C2D4]RAD001 internal standard », *Journal of Chromatography. B, Analytical Technologies in the Biomedical and Life Sciences*, 15 mars 2015, [PMID: 25682337], vol. 985, 155-163, DOI : 10.1016/j.jchromb.2015.01.035.
- JOSHI G., PERLUIGI M., SULTANA R., AGRIPPINO R., CALABRESE V. et BUTTERFIELD D.A., « 2,2-azobis(2-amidino-propane)dihydrochloride (AAPH) or Fe²⁺/H₂O₂: insight into mechanisms of neuroprotection and relevance to oxidative stress-related neurodegenerative disorders », *Neurochemistry International*, mars 2006, [PMID: 16386335], vol. 48, n° 4, 318-327, DOI : 10.1016/j.neuint.2005.11.006.
- JOSHI G., SULTANA R., PERLUIGI M. et BUTTERFIELD D.A., « In vivo protection of synaptosomes from oxidative stress mediated by Fe²⁺/H₂O₂ or 2,2-azobis-(2-amidinopropane) dihydrochloride by the glutathione mimetic tricyclodecan-9-yl-xanthogenate », *Free Radical Biology & Medicine*, 15 avril 2005, [PMID: 15780760], vol. 38, n° 8, 1023-1031, DOI : 10.1016/j.freeradbiomed.2004.12.027.
- KEENEY J.T.R., SWOMLEY A.M., HARRIS J.L., FIORINI A., MITOV M.I., PERLUIGI M., SULTANA R. et BUTTERFIELD D.A., « Cell cycle proteins in brain in mild cognitive impairment: insights into progression to Alzheimer disease », *Neurotoxicity Research*, octobre 2012, [PMID: 22083458], vol. 22, n° 3, 220-230, DOI : 10.1007/s12640-011-9287-2.
- MANCUSO C., BARONE E., GUIDO P., MICELI F., DI DOMENICO F., PERLUIGI M., SANTANGELO R. et PREZIOSI P., « Inhibition of lipid peroxidation and protein oxidation by endogenous and exogenous antioxidants in rat brain microsomes in vitro », *Neuroscience Letters*, 19 juin 2012, [PMID: 22609281], vol. 518, n° 2, 101-105, DOI : 10.1016/j.neulet.2012.04.062.
- MANCUSO C., PERLUIGI M., CINI C., DE MARCO C., GIUFFRIDA STELLA A.M. et CALABRESE V., « Heme oxygenase and cyclooxygenase in the central nervous system: a functional interplay », *Journal of Neuroscience Research*, 15 novembre 2006, [PMID: 16998916], vol. 84, n° 7, 1385-1391, DOI : 10.1002/jnr.21049.
- MASTROMARINO P., MACCHIA S., MEGGIORINI L., TRINCHIERI V., MOSCA L., PERLUIGI M. et MIDULLA C., « Effectiveness of Lactobacillus-containing vaginal tablets in the treatment of symptomatic bacterial vaginosis », *Clinical Microbiology and Infection: The Official Publication of the European Society of Clinical Microbiology and Infectious Diseases*, janvier 2009, [PMID: 19046169], vol. 15, n° 1, 67-74, DOI : 10.1111/j.1469-0691.2008.02112.x.
- MOSCA L., MARCELLINI S., PERLUIGI M., MASTROIACOVO P., MORETTI S., FAMULARO G., PELUSO I., SANTINI G. et DE SIMONE C., « Modulation of apoptosis and improved redox metabolism with the use of a new antioxidant formula », *Biochemical Pharmacology*, 1 avril 2002, [PMID: 11960607], vol. 63, n° 7, 1305-1314.
- NEWMAN S.F., SULTANA R., PERLUIGI M., COCCIA R., CAI J., PIERCE W.M., KLEIN J.B., TURNER D.M. et BUTTERFIELD D.A., « An increase in S-glutathionylated proteins in the Alzheimer's disease inferior parietal lobule, a proteomics approach », *Journal of Neuroscience Research*, 15 mai 2007, [PMID: 17387692], vol. 85, n° 7, 1506-1514, DOI : 10.1002/jnr.21275.
- OWEN J.B., DI DOMENICO F., SULTANA R., PERLUIGI M., CINI C., PIERCE W.M. et BUTTERFIELD D.A., « Proteomics-determined differences in the concanavalin-A-fractionated proteome of hippocampus and inferior parietal lobule in subjects with Alzheimer's disease and mild cognitive impairment: implications for progression of AD », *Journal of*

- Proteome Research*, février 2009, [PMID: 19072283 PMCID: PMC2658606], vol. 8, n° 2, 471-482, DOI : 10.1021/pr800667a.
- PERLUIGI M. et BUTTERFIELD D.A., « Oxidative Stress and Down Syndrome: A Route toward Alzheimer-Like Dementia », *Current Gerontology and Geriatrics Research*, 2012, [PMID: 22203843 PMCID: PMC3235450], vol. 2012, 724904, DOI : 10.1155/2012/724904.
- PERLUIGI M. et BUTTERFIELD D.A., « The identification of protein biomarkers for oxidative stress in Down syndrome », *Expert Review of Proteomics*, août 2011, [PMID: 21819296], vol. 8, n° 4, 427-429, DOI : 10.1586/epr.11.36.
- PERLUIGI M., COCCIA R. et BUTTERFIELD D.A., « 4-Hydroxy-2-nonenal, a reactive product of lipid peroxidation, and neurodegenerative diseases: a toxic combination illuminated by redox proteomics studies », *Antioxidants & Redox Signaling*, 1 décembre 2012, [PMID: 22114878 PMCID: PMC3449441], vol. 17, n° 11, 1590-1609, DOI : 10.1089/ars.2011.4406.
- PERLUIGI M., DE MARCO F., FOPPOLI C., COCCIA R., BLARZINO C., MARCANTE M.L. et CINI C., « Tyrosinase protects human melanocytes from ROS-generating compounds », *Biochemical and Biophysical Research Communications*, 30 mai 2003, [PMID: 12745066], vol. 305, n° 2, 250-256.
- PERLUIGI M., DI DOMENICO F., BLARZINO C., FOPPOLI C., CINI C., GIORGI A., GRILLO C., DE MARCO F., BUTTERFIELD D.A., SCHININA M.E. et COCCIA R., « Effects of UVB-induced oxidative stress on protein expression and specific protein oxidation in normal human epithelial keratinocytes: a proteomic approach », *Proteome Science*, 2010, [PMID: 20298559 PMCID: PMC3161386], vol. 8, 13, DOI : 10.1186/1477-5956-8-13.
- PERLUIGI M., DI DOMENICO F. et BUTTERFIELD D.A., « MTOR signaling in aging and neurodegeneration: At the crossroad between metabolism dysfunction and impairment of autophagy », *Neurobiology of Disease*, décembre 2015, [PMID: 25796566], vol. 84, 39-49, DOI : 10.1016/j.nbd.2015.03.014.
- PERLUIGI M., DI DOMENICO F. et BUTTERFIELD D.A., « Unraveling the complexity of neurodegeneration in brains of subjects with Down syndrome: insights from proteomics », *Proteomics. Clinical Applications*, février 2014, [PMID: 24259517 PMCID: PMC3965623], vol. 8, n° 1-2, 73-85, DOI : 10.1002/prca.201300066.
- PERLUIGI M., DI DOMENICO F., CINI C., COCCIA R., GIORLANDINO F.R., GIORLANDINO M., CIGNINI P., MESORACA A. et GIORLANDINO C., « Proteomic analysis for the study of amniotic fluid protein composition », *Journal of Prenatal Medicine*, juillet 2009, [PMID: 22439042 PMCID: PMC3279107], vol. 3, n° 3, 39-41.
- PERLUIGI M., DI DOMENICO F., FIORINI A., COCCIOLO A., GIORGI A., FOPPOLI C., BUTTERFIELD D.A., GIORLANDINO M., GIORLANDINO C., SCHININA M.E. et COCCIA R., « Oxidative stress occurs early in Down syndrome pregnancy: A redox proteomics analysis of amniotic fluid », *Proteomics. Clinical Applications*, avril 2011, [PMID: 21360684], vol. 5, n° 3-4, 167-178, DOI : 10.1002/prca.201000121.
- PERLUIGI M., FAI POON H., HENSLEY K., PIERCE W.M., KLEIN J.B., CALABRESE V., DE MARCO C. et BUTTERFIELD D.A., « Proteomic analysis of 4-hydroxy-2-nonenal-modified proteins in G93A-SOD1 transgenic mice--a model of familial amyotrophic lateral sclerosis », *Free Radical Biology & Medicine*, 1 avril 2005, [PMID: 15749392], vol. 38, n° 7, 960-968, DOI : 10.1016/j.freeradbiomed.2004.12.021.
- PERLUIGI M., GIORGI A., BLARZINO C., DE MARCO F., FOPPOLI C., DI DOMENICO F., BUTTERFIELD D.A., SCHININA M.E., CINI C. et COCCIA R., « Proteomics analysis of protein expression and specific protein oxidation in human papillomavirus transformed keratinocytes upon UVB irradiation », *Journal of Cellular and Molecular Medicine*, août 2009, [PMID: 19267883], vol. 13, n° 8B, 1809-1822, DOI : 10.1111/j.1582-4934.2008.00465.x.
- PERLUIGI M., JOSHI G., SULTANA R., CALABRESE V., DE MARCO C., COCCIA R., CINI C. et BUTTERFIELD D.A., « In vivo protective effects of ferulic acid ethyl ester against amyloid-beta peptide 1-42-induced oxidative stress », *Journal of Neuroscience Research*, 1 août 2006, [PMID: 16634068], vol. 84, n° 2, 418-426, DOI : 10.1002/jnr.20879.
- PERLUIGI M., POON H.F., MARAGOS W., PIERCE W.M., KLEIN J.B., CALABRESE V., CINI C., DE MARCO C. et BUTTERFIELD D.A., « Proteomic analysis of protein expression and oxidative modification in r6/2 transgenic mice: a model of Huntington disease », *Molecular & cellular proteomics: MCP*, décembre 2005, [PMID: 15968004], vol. 4, n° 12, 1849-1861, DOI : 10.1074/mcp.M500090-MCP200.
- PERLUIGI M., PUPO G., TRAMUTOLA A., CINI C., COCCIA R., BARONE E., HEAD E., BUTTERFIELD D.A. et DI DOMENICO F., « Neuropathological role of PI3K/Akt/mTOR axis in Down syndrome brain », *Biochimica Et Biophysica Acta*, juillet 2014, [PMID: 24735980 PMCID: PMC4062876], vol. 1842, n° 7, 1144-1153, DOI : 10.1016/j.bbadiis.2014.04.007.
- PERLUIGI M., SULTANA R., CENINI G., DI DOMENICO F., MEMO M., PIERCE W.M., COCCIA R. et BUTTERFIELD D.A., « Redox proteomics identification of 4-hydroxynonenal-modified brain proteins in Alzheimer's disease: Role of lipid peroxidation in Alzheimer's disease pathogenesis », *Proteomics. Clinical Applications*, 1 juin 2009, [PMID: 20333275 PMCID: PMC2843938], vol. 3, n° 6, 682-693, DOI : 10.1002/prca.200800161.

- PERLUIGI M., SWOMLEY A.M. et BUTTERFIELD D.A., « Redox proteomics and the dynamic molecular landscape of the aging brain », *Ageing Research Reviews*, janvier 2014, [PMID: 24374232], vol. 13, 75-89, DOI : 10.1016/j.arr.2013.12.005.
- PERLUIGI M., DI DOMENICO F., GIORGI A., SCHININA M.E., COCCIA R., CINI C., BELLIA F., CAMBRIA M.T., CORNELIUS C., BUTTERFIELD D.A. et CALABRESE V., « Redox proteomics in aging rat brain: involvement of mitochondrial reduced glutathione status and mitochondrial protein oxidation in the aging process », *Journal of Neuroscience Research*, décembre 2010, [PMID: 20936692], vol. 88, n° 16, 3498-3507, DOI : 10.1002/jnr.22500.
- PERLUIGI M., JOSHI G., SULTANA R., CALABRESE V., DE MARCO C., COCCIA R. et BUTTERFIELD D.A., « In vivo protection by the xanthate tricyclodecan-9-yl-xanthogenate against amyloid beta-peptide (1-42)-induced oxidative stress », *Neuroscience*, 2006, [PMID: 16427207], vol. 138, n° 4, 1161-1170, DOI : 10.1016/j.neuroscience.2005.12.004.
- REED T., PERLUIGI M., SULTANA R., PIERCE W.M., KLEIN J.B., TURNER D.M., COCCIA R., MARKESBERY W.R. et BUTTERFIELD D.A., « Redox proteomic identification of 4-hydroxy-2-nonenal-modified brain proteins in amnestic mild cognitive impairment: insight into the role of lipid peroxidation in the progression and pathogenesis of Alzheimer's disease », *Neurobiology of Disease*, avril 2008, [PMID: 18325775], vol. 30, n° 1, 107-120, DOI : 10.1016/j.nbd.2007.12.007.
- SPADACCIO C., DI DOMENICO F., PERLUIGI M., LUSINI M., GIORGI A., SCHININA M.E., BLARZINO C., COVINO E., CHELLO M. et COCCIA R., « Serum proteomics in patients with diagnosis of abdominal aortic aneurysm », *Cardiovascular Pathology: The Official Journal of the Society for Cardiovascular Pathology*, août 2012, [PMID: 22104004], vol. 21, n° 4, 283-290, DOI : 10.1016/j.carpath.2011.09.008.
- SULTANA R., PERLUIGI M. et ALLAN BUTTERFIELD D., « Lipid peroxidation triggers neurodegeneration: a redox proteomics view into the Alzheimer disease brain », *Free Radical Biology & Medicine*, septembre 2013, [PMID: 23044265 PMCID: PMC3573239], vol. 62, 157-169, DOI : 10.1016/j.freeradbiomed.2012.09.027.
- SULTANA R., PERLUIGI M. et BUTTERFIELD D.A., « Oxidatively modified proteins in Alzheimer's disease (AD), mild cognitive impairment and animal models of AD: role of Abeta in pathogenesis », *Acta Neuropathologica*, juillet 2009, [PMID: 19288120 PMCID: PMC2818870], vol. 118, n° 1, 131-150, DOI : 10.1007/s00401-009-0517-0.
- SULTANA R., PERLUIGI M. et BUTTERFIELD D.A., « Protein oxidation and lipid peroxidation in brain of subjects with Alzheimer's disease: insights into mechanism of neurodegeneration from redox proteomics », *Antioxidants & Redox Signaling*, décembre 2006, [PMID: 17034347], vol. 8, n° 11-12, 2021-2037, DOI : 10.1089/ars.2006.8.2021.
- SULTANA R., PERLUIGI M. et BUTTERFIELD D.A., « Proteomics identification of oxidatively modified proteins in brain », *Methods in Molecular Biology (Clifton, N.J.)*, 2009, [PMID: 19544029], vol. 564, 291-301, DOI : 10.1007/978-1-60761-157-8_16.
- SULTANA R., PERLUIGI M. et BUTTERFIELD D.A., « Redox proteomics identification of oxidatively modified proteins in Alzheimer's disease brain and in vivo and in vitro models of AD centered around Abeta(1-42) », *Journal of Chromatography. B, Analytical Technologies in the Biomedical and Life Sciences*, 20 mars 2006, [PMID: 16236561], vol. 833, n° 1, 3-11, DOI : 10.1016/j.jchromb.2005.09.024.
- SULTANA R., PERLUIGI M., NEWMAN S.F., PIERCE W.M., CINI C., COCCIA R. et BUTTERFIELD D.A., « Redox proteomic analysis of carbonylated brain proteins in mild cognitive impairment and early Alzheimer's disease », *Antioxidants & Redox Signaling*, mars 2010, [PMID: 19686046 PMCID: PMC2821142], vol. 12, n° 3, 327-336, DOI : 10.1089/ars.2009.2810.
- SULTANA R., REED T., PERLUIGI M., COCCIA R., PIERCE W.M. et BUTTERFIELD D.A., « Proteomic identification of nitrated brain proteins in amnestic mild cognitive impairment: a regional study », *Journal of Cellular and Molecular Medicine*, août 2007, [PMID: 17760844 PMCID: PMC3823261], vol. 11, n° 4, 839-851, DOI : 10.1111/j.1582-4934.2007.00065.x.
- TRAMUTOLA A., LANZILLOTTA C., ARENA A., BARONE E., PERLUIGI M. et DI DOMENICO F., « Increased Mammalian Target of Rapamycin Signaling Contributes to the Accumulation of Protein Oxidative Damage in a Mouse Model of Down's Syndrome », *Neuro-Degenerative Diseases*, 2016, [PMID: 26606243], vol. 16, n° 1-2, 62-68, DOI : 10.1159/000441419.
- TRAMUTOLA A., TRIPLETT J.C., DI DOMENICO F., NIEDOWICZ D.M., MURPHY M.P., COCCIA R., PERLUIGI M. et BUTTERFIELD D.A., « Alteration of mTOR signaling occurs early in the progression of Alzheimer disease (AD): analysis of brain from subjects with pre-clinical AD, amnestic mild cognitive impairment and late-stage AD », *Journal of Neurochemistry*, juin 2015, [PMID: 25645581], vol. 133, n° 5, 739-749, DOI : 10.1111/jnc.13037.
- TRIPLETT J.C., TRAMUTOLA A., SWOMLEY A., KIRK J., GRIMES K., LEWIS K., ORR M., RODRIGUEZ K., CAI J., KLEIN J.B., PERLUIGI M., BUFFENSTEIN R. et BUTTERFIELD D.A., « Age-related changes in the proteostasis network in the brain of the naked mole-rat: Implications promoting healthy longevity », *Biochimica Et Biophysica Acta*, octobre 2015, [PMID: 26248058], vol. 1852, n° 10 Pt A, 2213-2224, DOI : 10.1016/j.bbadi.2015.08.002.