

Prof. Luciano Saso's CV
 Sapienza University of Rome,
 Faculty of Pharmacy and Medicine
 P.le Aldo Moro 5, 00185 Rome, Italy
 E-mail: luciano.saso@uniroma1.it

PERSONAL INFORMATION

Last Name	Saso
First Name	Luciano
Date of birth	February 10 th , 1964
Nationality	Italian
E-mail	luciano.saso@uniroma1.it

SCIENTIFIC PUBLICATIONS

Over 300 international publications in the field of Pharmacy and Medicine: H-index Google Scholar¹ = 54, H-index Scopus = 44)

1: Talwar P, Kushwaha S, Rawat C, Kaur H, Srivastava A, Agarwal R, Chandna P, Tucci P, Saso L, Kukreti R. Validating a Genomic Convergence and Network Analysis Approach Using Association Analysis of Identified Candidate Genes in Alzheimer's Disease. *Front Genet.* 2021 Dec 9;12:722221. doi: 10.3389/fgene.2021.722221. PMID: 34956307; PMCID: PMC8696000.

2: Seminotti B, Grings M, Tucci P, Leipnitz G, Saso L. Nuclear Factor Erythroid-2-Related Factor 2 Signaling in the Neuropathophysiology of Inherited Metabolic Disorders. *Front Cell Neurosci.* 2021 Nov 26;15:785057. doi: 10.3389/fncel.2021.785057. PMID: 34955754; PMCID: PMC8693715.

3: Ghareghomi S, Rahban M, Moosavi-Movahedi Z, Habibi-Rezaei M, Saso L, Moosavi-Movahedi AA. The Potential Role of Curcumin in Modulating the Master Antioxidant Pathway in Diabetic Hypoxia-Induced Complications. *Molecules.* 2021 Dec 17;26(24):7658. doi: 10.3390/molecules26247658. PMID: 34946740; PMCID: PMC8706440.

4: Costa M, Sezgin-Bayindir Z, Losada-Barreiro S, Paiva-Martins F, Saso L, Bravo-Díaz C. Polyphenols as Antioxidants for Extending Food Shelf-Life and in the Prevention of Health Diseases: Encapsulation and Interfacial Phenomena. *Biomedicines.* 2021 Dec 14;9(12):1909. doi: 10.3390/biomedicines9121909. PMID: 34944722; PMCID: PMC8698762.

5: Banerjee A, Kanwar M, Das Mohapatra PK, Saso L, Nicoletti M, Maiti S. Nigellidine (<i>Nigella sativa</i>, black-cumin seed) docking to SARS CoV-2 nsp3 and host inflammatory proteins may inhibit viral replication/transcription and FAS-TNF death signal via TNFR 1/2 blocking. *Nat Prod Res.* 2021 Dec 22:1-6. doi: 10.1080/14786419.2021.2018430. Epub ahead of print. PMID: 34937447.

6: Matlin SA, Karadag O, Brando CR, Góis P, Karabey S, Khan MMH, Saleh S, Takian A, Saso L. COVID-19: Marking the Gaps in Migrant and Refugee Health in Some Massive Migration Areas. *Int J Environ Res Public Health.* 2021 Nov 30;18(23):12639. doi: 10.3390/ijerph182312639. PMID: 34886367; PMCID: PMC8657173.

7: Rahman N, Khan H, Zia A, Khan A, Fakhri S, Aschner M, Gul K, Saso L. Bcl-2 Modulation in p53 Signaling Pathway by Flavonoids: A Potential Strategy towards the Treatment of Cancer. *Int J Mol Sci.* 2021 Oct 20;22(21):11315. doi: 10.3390/ijms22211315. PMID: 34768743; PMCID: PMC8582810.

8: Bisenieks E, Vigante B, Petrovska R, Turovska B, Muhamadejev R, Soloduns V, Velena A, Pajuste K, Saso L, Klovins J, Duburs G, Mandrika I. The Specificity and Broad Multitarget Properties of Ligands for the Free Fatty Acid Receptors FFA3/GPR41 and FFA2/GPR43 and the Related Hydroxycarboxylic Acid Receptor HCA2/GPR109A. *Pharmaceuticals (Basel).* 2021 Sep 28;14(10):987. doi: 10.3390/ph14100987. PMID: 34681211; PMCID: PMC8537386.

¹ <https://scholar.google.com/intl/en/scholar/metrics.html#metrics>

- 9:** Kukal S, Guin D, Rawat C, Bora S, Mishra MK, Sharma P, Paul PR, Kanojia N, Grewal GK, Kukreti S, Saso L, Kukreti R. Multidrug efflux transporter ABCG2: expression and regulation. *Cell Mol Life Sci.* 2021 Nov;78(21-22):6887-6939. doi: 10.1007/s00018-021-03901-y. Epub 2021 Sep 29. PMID: 34586444.
- 10:** Marjanovic A, Djedjibegovic J, Lugusic A, Sober M, Saso L. Multivariate analysis of polyphenolic content and in vitro antioxidant capacity of wild and cultivated berries from Bosnia and Herzegovina. *Sci Rep.* 2021 Sep 28;11(1):19259. doi: 10.1038/s41598-021-98896-8. PMID: 34584202; PMCID: PMC8478928.
- 11:** Rodrigo R, Prieto JC, Aguayo R, Ramos C, Puentes Á, Gajardo A, Panieri E, Rojas-Solé C, Lillo-Moya J, Saso L. Joint Cardioprotective Effect of Vitamin C and Other Antioxidants against Reperfusion Injury in Patients with Acute Myocardial Infarction Undergoing Percutaneous Coronary Intervention. *Molecules.* 2021 Sep 21;26(18):5702. doi: 10.3390/molecules26185702. PMID: 34577176; PMCID: PMC8468345.
- 12:** Pierzynowska K, Gaffke L, Cyske Z, Węgrzyn G, Buttari B, Profumo E, Saso L. Oxidative Stress in Mucopolysaccharidoses: Pharmacological Implications. *Molecules.* 2021 Sep 16;26(18):5616. doi: 10.3390/molecules26185616. PMID: 34577086; PMCID: PMC8468662.
- 13:** Tber Z, Loubidi M, Jouha J, Hdoufane I, Erdogan MA, Saso L, Armagan G, Berteina-Raboin S. Pyrido[2',1':2,3]imidazo[4,5-<i>c</i>]isoquinolin-5-amines as Potential Cytotoxic Agents against Human Neuroblastoma. *Pharmaceuticals (Basel).* 2021 Jul 30;14(8):750. doi: 10.3390/ph14080750. PMID: 34451847; PMCID: PMC8399734.
- 14:** Koklesova L, Liskova A, Samec M, Zhai K, Al-Ishaq RK, Bugos O, Šudomová M, Biringer K, Pec M, Adamkov M, Hassan STS, Saso L, Giordano FA, Büsselberg D, Kubatka P, Golubnitschaja O. Protective Effects of Flavonoids Against Mitochondriopathies and Associated Pathologies: Focus on the Predictive Approach and Personalized Prevention. *Int J Mol Sci.* 2021 Aug 11;22(16):8649. doi: 10.3390/ijms22168649. PMID: 34445360; PMCID: PMC8395457.
- 15:** Farina M, Vieira LE, Buttari B, Profumo E, Saso L. The Nrf2 Pathway in Ischemic Stroke: A Review. *Molecules.* 2021 Aug 18;26(16):5001. doi: 10.3390/molecules26165001. PMID: 34443584; PMCID: PMC8399750.
- 16:** Kumar A, Kaushik P, Incerpi S, Pedersen JZ, Goel S, Prasad AK, Rohil V, Parmar VS, Saso L, Len C. Evaluation of the Free Radical Scavenging Activities of Ellagic Acid and Ellagic Acid Peracetate by EPR Spectrometry. *Molecules.* 2021 Aug 8;26(16):4800. doi: 10.3390/molecules26164800. PMID: 34443388; PMCID: PMC8399592.
- 17:** Szczuko M, Kikut J, Szczuko U, Szydłowska I, Nawrocka-Rutkowska J, Ziętek M, Verbanac D, Saso L. Nutrition Strategy and Life Style in Polycystic Ovary Syndrome-Narrative Review. *Nutrients.* 2021 Jul 18;13(7):2452. doi: 10.3390/nu13072452. PMID: 34371961; PMCID: PMC8308732.
- 18:** Todorov L, Saso L, Benarous K, Traykova M, Linani A, Kostova I. Synthesis, Structure and Impact of 5-Aminoerotic Acid and Its Complexes with Lanthanum(III) and Gallium(III) on the Activity of Xanthine Oxidase. *Molecules.* 2021 Jul 26;26(15):4503. doi: 10.3390/molecules26154503. PMID: 34361656; PMCID: PMC8348579.
- 19:** Matlin SA, Orcutt M, Bojorquez I, Caman OK, Severoni S, Spiegel P, Veizis A, Saso L. COVID-19 and migrant and refugee health: A pointer to system competence in future pandemic preparedness. *EClinicalMedicine.* 2021 May 29;36:100904. doi: 10.1016/j.eclim.2021.100904. PMID: 34124633; PMCID: PMC8173249.
- 20:** Verma S, Singh P, Khurana S, Ganguly NK, Kukreti R, Saso L, Rana DS, Taneja V, Bhargava V. Implications of oxidative stress in chronic kidney disease: a review on current concepts and therapies. *Kidney Res Clin Pract.* 2021 Jun;40(2):183-193. doi: 10.23876/j.krcp.20.163. Epub 2021 May 26. PMID: 34078023; PMCID: PMC8237115.
- 21:** Ucar BI, Ucar G, Saha S, Buttari B, Profumo E, Saso L. Pharmacological Protection against Ischemia-Reperfusion Injury by Regulating the Nrf2-Keap1-ARE Signaling Pathway. *Antioxidants (Basel).* 2021 May 21;10(6):823. doi: 10.3390/antiox10060823. PMID: 34063933; PMCID: PMC8224095.
- 22:** Avdović EH, Petrović IP, Stevanović MJ, Saso L, Dimitrić Marković JM, Filipović ND, Živić MŽ, Cvetić Antić TN, Žižić MV, Todorović NV, Vukić M,

Trifunović SR, Marković ZS. Synthesis and Biological Screening of New 4-Hydroxycoumarin Derivatives and Their Palladium(II) Complexes. *Oxid Med Cell Longev.* 2021 Apr 28;2021:8849568. doi: 10.1155/2021/8849568. PMID: 34007407; PMCID: PMC8102111.

23: Ganguly U, Kaur U, Chakrabarti SS, Sharma P, Agrawal BK, Saso L, Chakrabarti S. Oxidative Stress, Neuroinflammation, and NADPH Oxidase: Implications in the Pathogenesis and Treatment of Alzheimer's Disease. *Oxid Med Cell Longev.* 2021 Apr 16;2021:7086512. doi: 10.1155/2021/7086512. PMID: 33953837; PMCID: PMC8068554.

24: Sezgin-Bayindir Z, Losada-Barreiro S, Bravo-Díaz C, Sova M, Kristl J, Saso L. Nanotechnology-Based Drug Delivery to Improve the Therapeutic Benefits of NRF2 Modulators in Cancer Therapy. *Antioxidants (Basel).* 2021 Apr 27;10(5):685. doi: 10.3390/antiox10050685. PMID: 33925605; PMCID: PMC8145905.

25: Lillo-Moya J, Rojas-Solé C, Muñoz-Salamanca D, Panieri E, Saso L, Rodrigo R. Targeting Ferroptosis against Ischemia/Reperfusion Cardiac Injury. *Antioxidants (Basel).* 2021 Apr 25;10(5):667. doi: 10.3390/antiox10050667. PMID: 33922912; PMCID: PMC8145541.

26: Kancheva VD, Dettori MA, Fabbri D, Alov P, Angelova SE, Slavova-Kazakova AK, Carta P, Menshov VA, Yablonskaya OI, Trofimov AV, Tsakovska I, Saso L. Natural Chain-Breaking Antioxidants and Their Synthetic Analogs as Modulators of Oxidative Stress. *Antioxidants (Basel).* 2021 Apr 19;10(4):624. doi: 10.3390/antiox10040624. PMID: 33921802; PMCID: PMC8074124.

27: Aleksic M, Kalezic A, Saso L, Jankovic A, Korac B, Korac A. The Unity of Redox and Structural Remodeling of Brown Adipose Tissue in Hypothyroidism. *Antioxidants (Basel).* 2021 Apr 12;10(4):591. doi: 10.3390/antiox10040591. PMID: 33921249; PMCID: PMC8068806.

28: Süntar I, Çetinkaya S, Panieri E, Saha S, Buttari B, Profumo E, Saso L. Regulatory Role of Nrf2 Signaling Pathway in Wound Healing Process. *Molecules.* 2021 Apr 21;26(9):2424. doi: 10.3390/molecules26092424. PMID: 33919399; PMCID: PMC8122529.

29: Verbanac D, Čeri A, Hlapčić I, Shakibaei M, Brockmueller A, Krušlin B, Ljubičić N, Baršić N, Detel D, Batičić L, Rumora L, Somborac-Baćura A,

Štefanović M, Ćelap I, Demirović A, Petlevski R, Petrik J, Grdić Rajković M, Hulina-Tomašković A, Rako I, Saso L, Barišić K. Profiling Colorectal Cancer in the Landscape Personalized Testing-Advantages of Liquid Biopsy. *Int J Mol Sci.* 2021 Apr 21;22(9):4327. doi: 10.3390/ijms22094327. PMID: 33919272; PMCID: PMC8122648.

30: Buha A, Baralić K, Djukic-Cosic D, Bulat Z, Tinkov A, Panieri E, Saso L. The Role of Toxic Metals and Metalloids in Nrf2 Signaling. *Antioxidants (Basel).* 2021 Apr 21;10(5):630. doi: 10.3390/antiox10050630. PMID: 33918986; PMCID: PMC8142989.

31: Telkoparan-Akillilar P, Panieri E, Cevik D, Suzen S, Saso L. Therapeutic Targeting of the NRF2 Signaling Pathway in Cancer. *Molecules.* 2021 Mar 5;26(5):1417. doi: 10.3390/molecules26051417. PMID: 33808001; PMCID: PMC7961421.

32: Tascioglu Aliyev A, Panieri E, Stepanić V, Gurer-Orhan H, Saso L. Involvement of NRF2 in Breast Cancer and Possible Therapeutical Role of Polyphenols and Melatonin. *Molecules.* 2021 Mar 25;26(7):1853. doi: 10.3390/molecules26071853. PMID: 33805996; PMCID: PMC8038098.

33: Ulker OC, Panieri E, Suzen S, Jaganjac M, Zarkovic N, Saso L. Short overview on the relevance of microRNA-reactive oxygen species (ROS) interactions and lipid peroxidation for modulation of oxidative stress-mediated signalling pathways in cancer treatment. *J Pharm Pharmacol.* 2021 Mar 26:rgab045. doi: 10.1093/jpp/rgab045. Epub ahead of print. PMID: 33769543.

34: Banerjee A, Ganguly U, Saha S, Chakrabarti S, Saini RV, Rawal RK, Saso L, Chakrabarti S. Vitamin D and immuno-pathology of COVID-19: many interactions but uncertain therapeutic benefits. *Expert Rev Anti Infect Ther.* 2021 Oct;19(10):1245-1258. doi: 10.1080/14787210.2021.1905519. Epub 2021 Apr 1. PMID: 33739215; PMCID: PMC8022339.

35: Lattanzi R, Severini C, Maftei D, Saso L, Badiani A. The Role of Prokineticin 2 in Oxidative Stress and in Neuropathological Processes. *Front Pharmacol.* 2021 Mar 1;12:640441. doi: 10.3389/fphar.2021.640441. PMID: 33732160; PMCID: PMC7956973.

36: Egbujor MC, Saha S, Buttari B, Profumo E, Saso L. Activation of Nrf2

signaling pathway by natural and synthetic chalcones: a therapeutic road map for oxidative stress. *Expert Rev Clin Pharmacol.* 2021 Apr;14(4):465-480. doi: 10.1080/17512433.2021.1901578. Epub 2021 Mar 30. PMID: 33691555.

37: Damghani T, Moosavi F, Khoshneviszadeh M, Mortazavi M, Pirhadi S, Kayani Z, Saso L, Edraki N, Firuzi O. Imidazopyridine hydrazone derivatives exert antiproliferative effect on lung and pancreatic cancer cells and potentially inhibit receptor tyrosine kinases including c-Met. *Sci Rep.* 2021 Feb 11;11(1):3644. doi: 10.1038/s41598-021-83069-4. PMID: 33574356; PMCID: PMC7878917.

38: Urrutia I, Martín-Nieto A, Martínez R, Casanovas-Marsal JO, Aguayo A, Del Olmo J, Arana E, Fernandez-Rubio E, Castaño L, Gatzambide S; Diabetes Epidemiology Group. Incidence of diabetes mellitus and associated risk factors in the adult population of the Basque country, Spain. *Sci Rep.* 2021 Feb 4;11(1):3016. doi: 10.1038/s41598-021-82548-y. PMID: 33542348; PMCID: PMC7862431.

39: García-Castaño A, Madariaga L, Gómez-Conde S, Cordero CLR, López-Iglesias M, García-Fernández Y, Martín A, González P, Goicolea I, de Nanclares GP, De la Hoz AB, Aguayo A, de LaPiscina IM, Martínez R, Saso L, Urrutia I, Velasco O, Castaño L, Gatzambide S. Five patients with disorders of calcium metabolism presented with GCM2 gene variants. *Sci Rep.* 2021 Feb 3;11(1):2968. doi: 10.1038/s41598-021-82661-y. PMID: 33536578; PMCID: PMC7859196.

40: Maslovarić I, Ilić V, Drvenica I, Stanićić A, Mojsilović S, Kukolj T, Bugarski D, Saso L, Nicoletti M. Insight into the Biological Activity of Hennosides-Glucosides Isolated from *< i>Lawsonia inermis</i>* (henna): Could They Be Regarded as Active Constituents Instead. *Plants (Basel).* 2021 Jan 26;10(2):237. doi: 10.3390/plants10020237. PMID: 33530539; PMCID: PMC7912310.

41: Zaïter J, Hibot A, Hafid A, Khouili M, Neves CMB, Simões MMQ, Neves MGPMS, Faustino MAF, Dagci T, Saso L, Armagan G. Evaluation of the cellular protection by novel spiroypyrazole compounds in dopaminergic cell death. *Eur J Med Chem.* 2021 Mar 5;213:113140. doi: 10.1016/j.ejmchem.2020.113140. Epub 2021 Jan 6. PMID: 33454549.

42: Panieri E, Saso L. Inhibition of the NRF2/KEAP1 Axis: A Promising Therapeutic Strategy to Alter Redox Balance of Cancer Cells. *Antioxid Redox Signal.* 2021 Jun 20;34(18):1428-1483. doi: 10.1089/ars.2020.8146. Epub 2021 Feb 19. PMID: 33403898.

43: Tancheva L, Lazarova M, Saso L, Kalfin R, Stefanova M, Uzunova D, Atanasov AG. Beneficial Effect of Melatonin on Motor and Memory Disturbances in 6-OHDA-Lesioned Rats. *J Mol Neurosci.* 2021 Apr;71(4):702-712. doi: 10.1007/s12031-020-01760-z. Epub 2021 Jan 5. PMID: 33403591.

44: Samec M, Liskova A, Koklesova L, Mersakova S, Strnadel J, Kajo K, Pec M, Zhai K, Smejkal K, Mirzaei S, Hushmandi K, Ashrafizadeh M, Saso L, Brockmueller A, Shakibaei M, Büsselberg D, Kubatka P. Flavonoids Targeting HIF-1: Implications on Cancer Metabolism. *Cancers (Basel).* 2021 Jan 3;13(1):130. doi: 10.3390/cancers13010130. PMID: 33401572; PMCID: PMC7794792.

45: Viayna E, Coquelle N, Cieslikiewicz-Bouet M, Cisternas P, Oliva CA, Sánchez-López E, Ettcheto M, Bartolini M, De Simone A, Ricchini M, Rendina M, Pons M, Firuzi O, Pérez B, Saso L, Andrisano V, Nachon F, Brazzolotto X, García ML, Camins A, Silman I, Jean L, Inestrosa NC, Colletier JP, Renard PY, Muñoz-Torrero D. Discovery of a Potent Dual Inhibitor of Acetylcholinesterase and Butyrylcholinesterase with Antioxidant Activity that Alleviates Alzheimer-like Pathology in Old APP/PS1 Mice. *J Med Chem.* 2021 Jan 14;64(1):812-839. doi: 10.1021/acs.jmedchem.0c01775. Epub 2020 Dec 28. PMID: 3356266.

46: Guin D, Rani J, Singh P, Grover S, Bora S, Talwar P, Karthikeyan M, Satyamoorthy K, Adithan C, Ramachandran S, Saso L, Hasija Y, Kukreti R. Corrigendum: Global Text Mining and Development of Pharmacogenomic Knowledge Resource for Precision Medicine. *Front Pharmacol.* 2020 Dec 4;11:614445. doi: 10.3389/fphar.2020.614445. Erratum for: Front Pharmacol. 2019 Aug 07;10:839. PMID: 33343377; PMCID: PMC7746840.

47: Ricelli A, Gionfra F, Percario Z, De Angelis M, Primitivo L, Bonfantini V, Antonioli R, Bullitta SM, Saso L, Incerpi S, Pedersen JZ. Antioxidant and Biological Activities of Hydroxytyrosol and Homovanillic Alcohol Obtained from Olive Mill Wastewaters of Extra-Virgin Olive Oil Production. *J Agric Food Chem.*

2020 Dec 30;68(52):15428-15439. doi: 10.1021/acs.jafc.0c05230. Epub 2020 Dec 11. PMID: 33305574.

Oct 21;21(20):7784. doi: 10.3390/ijms21207784. PMID: 33096746; PMCID: PMC7589654.

48: Rahban M, Habibi-Rezaei M, Mazaheri M, Saso L, Moosavi-Movahedi AA. Anti-Viral Potential and Modulation of Nrf2 by Curcumin: Pharmacological Implications. *Antioxidants* (Basel). 2020 Dec 4;9(12):1228. doi: 10.3390/antiox9121228. PMID: 33291560; PMCID: PMC7761780.

55: Saha S, Profumo E, Togna AR, Riganò R, Saso L, Buttari B. Lupeol Counteracts the Proinflammatory Signalling Triggered in Macrophages by 7-Keto-Cholesterol: New Perspectives in the Therapy of Atherosclerosis. *Oxid Med Cell Longev*. 2020 Sep 27;2020:1232816. doi: 10.1155/2020/1232816. PMID: 33062133; PMCID: PMC7537694.

49: Cunha-Oliveira T, Montezinho L, Mendes C, Firuzi O, Saso L, Oliveira PJ, Silva FSG. Oxidative Stress in Amyotrophic Lateral Sclerosis: Pathophysiology and Opportunities for Pharmacological Intervention. *Oxid Med Cell Longev*. 2020 Nov 15;2020:5021694. doi: 10.1155/2020/5021694. PMID: 33274002; PMCID: PMC7683149.

56: García-Castaño A, Madariaga L, Antón-Gamero M, Mejía N, Ponce J, Gómez-Conde S, Pérez de Nanclares G, De la Hoz AB, Martínez R, Saso L, Martínez de LaPiscina I, Urrutia I, Velasco O, Aguayo A, Castaño L, Gaztambide S. Novel variant in the CNM2 gene associated with dominant hypomagnesemia. *PLoS One*. 2020 Sep 30;15(9):e0239965. doi: 10.1371/journal.pone.0239965. PMID: 32997713; PMCID: PMC7527205.

50: Todorov L, Traykova M, Saso L, Kostova I. In Vitro Interaction of 5-Aminoornithic Acid and Its Gallium(III) Complex with Superoxide Radical, Generated by Two Model Systems. *Int J Mol Sci*. 2020 Nov 23;21(22):8862. doi: 10.3390/ijms21228862. PMID: 33238535; PMCID: PMC7700459.

57: Kaur U, Chakrabarti SS, Ojha B, Pathak BK, Singh A, Saso L, Chakrabarti S. Targeting Host Cell Proteases to Prevent SARS-CoV-2 Invasion. *Curr Drug Targets*. 2021;22(2):192-201. doi: 10.2174/1389450121666200924113243. PMID: 32972339.

51: Saha S, Buttari B, Panieri E, Profumo E, Saso L. An Overview of Nrf2 Signaling Pathway and Its Role in Inflammation. *Molecules*. 2020 Nov 23;25(22):5474. doi: 10.3390/molecules25225474. PMID: 33238435; PMCID: PMC7700122.

58: Kaur U, Acharya K, Mondal R, Singh A, Saso L, Chakrabarti S, Chakrabarti SS. Should ACE2 be given a chance in COVID-19 therapeutics: A semi-systematic review of strategies enhancing ACE2. *Eur J Pharmacol*. 2020 Nov 15;887:173545. doi: 10.1016/j.ejphar.2020.173545. Epub 2020 Sep 11. PMID: 32926917; PMCID: PMC7485553.

52: Nabavi SM, Devi KP, Sathya S, Sanches-Silva A, Joanna L, Talarek S, Xu S, Daghia M, Nabavi SF, Shirooie S, Sureda A, Tejada S, Banach M, Dehpour AR, Saso L. New Trends in the Pharmacological Intervention of PPARs in Obesity: Role of Natural and Synthetic Compounds. *Curr Med Chem*. 2021;28(20):4004-4022. doi: 10.2174/1570162X18666201123114934. PMID: 33231144.

59: Alam W, Khan H, Shah MA, Cauli O, Saso L. Kaempferol as a Dietary Anti-Inflammatory Agent: Current Therapeutic Standing. *Molecules*. 2020 Sep 7;25(18):4073. doi: 10.3390/molecules25184073. PMID: 32906577; PMCID: PMC7570692.

53: Benarous K, Bou-Salah L, Linani A, Yousfi M, Kostova I, Saso L. Lanthanide (III) complexes of bis-coumarins as strong inhibitors of bovine xanthine oxidase - molecular docking and SAR studies. *J Biomol Struct Dyn*. 2020 Nov 4:1-7. doi: 10.1080/07391102.2020.1842247. Epub ahead of print. PMID: 33146077.

60: Zarneshan SN, Fakhri S, Farzaei MH, Khan H, Saso L. Astaxanthin targets PI3K/Akt signaling pathway toward potential therapeutic applications. *Food Chem Toxicol*. 2020 Nov;145:111714. doi: 10.1016/j.fct.2020.111714. Epub 2020 Aug 29. PMID: 32871194.

54: Thakran S, Guin D, Singh P, Singh P, Kukal S, Rawat C, Yadav S, Kushwaha SS, Srivastava AK, Hasija Y, Saso L, Ramachandran S, Kukreti R. Genetic Landscape of Common Epilepsies: Advancing towards Precision in Treatment. *Int J Mol Sci*. 2020

61: Djedjibegovic J, Marjanovic A, Panieri E, Saso L. Ellagic Acid-Derived Urolithins as Modulators of Oxidative Stress. *Oxid Med Cell Longev*. 2020 Jul 28;2020:5194508. doi: 10.1155/2020/5194508. PMID: 32774676; PMCID: PMC7407063.

- 62: Nagarajan S, Nagarajan R, Kumar J, Salemme A, Togna AR, Saso L, Bruno F. Antioxidant Activity of Synthetic Polymers of Phenolic Compounds. *Polymers* (Basel). 2020 Jul 24;12(8):1646. doi: 10.3390/polym12081646. PMID: 32722059; PMCID: PMC7464737.
- 63: Saso L, Gürer-Orhan H, Stepanić V. Modulators of Oxidative Stress: Chemical and Pharmacological Aspects. *Antioxidants* (Basel). 2020 Jul 24;9(8):657. doi: 10.3390/antiox9080657. PMID: 32722041; PMCID: PMC7465287.
- 64: Sova M, Saso L. Natural Sources, Pharmacokinetics, Biological Activities and Health Benefits of Hydroxycinnamic Acids and Their Metabolites. *Nutrients*. 2020 Jul 23;12(8):2190. doi: 10.3390/nu12082190. PMID: 32717940; PMCID: PMC7468728.
- 65: Losada-Barreiro S, Sova M, Mravljak J, Saso L, Bravo-Díaz C. Synthesis, In Vitro Antioxidant Properties and Distribution of a New Cyanothiophene-Based Phenolic Compound in Olive Oil-In-Water Emulsions. *Antioxidants* (Basel). 2020 Jul 16;9(7):623. doi: 10.3390/antiox9070623. PMID: 32708549; PMCID: PMC7402159.
- 66: Panieri E, Telkoparan-Akillilar P, Suzen S, Saso L. The NRF2/KEAP1 Axis in the Regulation of Tumor Metabolism: Mechanisms and Therapeutic Perspectives. *Biomolecules*. 2020 May 20;10(5):791. doi: 10.3390/biom10050791. PMID: 32443774; PMCID: PMC7277620.
- 67: Sheath D, Flahault A, Seybold J, Saso L. Diverse and Complex Challenges to Migrant and Refugee Mental Health: Reflections of the M8 Alliance Expert Group on Migrant Health. *Int J Environ Res Public Health*. 2020 May 18;17(10):3530. doi: 10.3390/ijerph17103530. PMID: 32443521; PMCID: PMC7277923.
- 68: Saso L, Suzen S, Borges F, Csont T. Chemistry and Pharmacology of Modulators of Oxidative Stress. *Curr Med Chem*. 2020;27(13):2038-2039. doi: 10.2174/092986732713200425202016. PMID: 32368965.
- 69: Shahraki O, Khoshneviszadeh M, Dehghani M, Mohabbati M, Tavakkoli M, Saso L, Edraki N, Firuzi O. 5-Oxo-hexahydroquinoline Derivatives and Their Tetrahydroquinoline Counterparts as Multidrug Resistance Reversal Agents. *Molecules*. 2020 Apr 16;25(8):1839. doi: 10.3390/molecules25081839. PMID: 32316291; PMCID: PMC7221826.
- 70: Albert A, Paul E, Rajakumar S, Saso L. Oxidative stress and endoplasmic stress in calcium oxalate stone disease: the chicken or the egg? *Free Radic Res*. 2020 Apr;54(4):244-253. doi: 10.1080/10715762.2020.1751835. Epub 2020 Apr 15. PMID: 32292073.
- 71: Panieri E, Buha A, Telkoparan-Akillilar P, Cevik D, Kouretas D, Veskoukis A, Skaperda Z, Tsatsakis A, Wallace D, Suzen S, Saso L. Potential Applications of NRF2 Modulators in Cancer Therapy. *Antioxidants* (Basel). 2020 Feb 25;9(3):193. doi: 10.3390/antiox9030193. PMID: 32106613; PMCID: PMC7139512.
- 72: Rawat C, Kutum R, Kukal S, Srivastava A, Dahiya UR, Kushwaha S, Sharma S, Dash D, Saso L, Srivastava AK, Kukreti R. Downregulation of peripheral PTGS2/COX-2 in response to valproate treatment in patients with epilepsy. *Sci Rep*. 2020 Feb 13;10(1):2546. doi: 10.1038/s41598-020-59259-x. PMID: 32054883; PMCID: PMC7018850.
- 73: Saha S, Panieri E, Suzen S, Saso L. The Interaction of Flavonols with Membrane Components: Potential Effect on Antioxidant Activity. *J Membr Biol*. 2020 Feb;253(1):57-71. doi: 10.1007/s00232-019-00105-1. Epub 2020 Jan 2. PMID: 31897501.
- 74: Nallathamby N, Phan CW, Sova M, Saso L, Sabaratnam V. Synthesized 2-Trifluoromethylquinazolines and Quinazolinones Protect BV2 and N2a Cells against LPS- and H₂O-induced Cytotoxicity. *Med Chem*. 2021;17(6):623-629. doi: 10.2174/1573406416666191218095635. PMID: 31849289.
- 75: Najmanová I, Vopřalová M, Saso L, Mladěnka P. The pharmacokinetics of flavanones. *Crit Rev Food Sci Nutr*. 2020;60(18):3155-3171. doi: 10.1080/10408398.2019.1679085. Epub 2019 Oct 25. PMID: 31650849.
- 76: Carbone C, Lo Russo SLM, Lacivita E, Frank A, Alleva E, Stark H, Saso L, Leopoldo M, Adriani W. Prior Activation of 5-HT7 Receptors Modulates the Conditioned Place Preference With Methylphenidate. *Front Behav Neurosci*. 2019 Sep 18;13:208. doi: 10.3389/fnbeh.2019.00208. PMID: 31619973; PMCID: PMC6759476.
- 77: Moosavi F, Giovannetti E, Saso L, Firuzi O. HGF/MET pathway aberrations as diagnostic, prognostic, and predictive biomarkers in human cancers. *Crit Rev Clin Lab Sci*. 2019 Dec;56(8):533-566. doi: 10.1080/10408363.2019.1653821. Epub 2019 Sep 12. PMID: 31512514.

- 78: Singh A, Kukreti R, Saso L, Kukreti S. Oxidative Stress: Role and Response of Short Guanine Tracts at Genomic Locations. *Int J Mol Sci.* 2019 Aug 30;20(17):4258. doi: 10.3390/ijms20174258. PMID: 31480304; PMCID: PMC6747389.
- 79: Buttari B, Profumo E, Capozzi A, Saso L, Sorice M, Riganò R. Post-translational modifications of proteins in antiphospholipid antibody syndrome. *Crit Rev Clin Lab Sci.* 2019 Dec;56(8):511-525. doi: 10.1080/10408363.2019.1650714. Epub 2019 Aug 26. PMID: 31448653.
- 80: Guin D, Rani J, Singh P, Grover S, Bora S, Talwar P, Karthikeyan M, Satyamoorthy K, Adithan C, Ramachandran S, Saso L, Hasija Y, Kukreti R. Global Text Mining and Development of Pharmacogenomic Knowledge Resource for Precision Medicine. *Front Pharmacol.* 2019 Aug 7;10:839. doi: 10.3389/fphar.2019.00839. Erratum in: *Front Pharmacol.* 2020 Dec 04;11:614445. PMID: 31447668; PMCID: PMC6692532.
- 81: Smith RE, Ozben T, Saso L. Modulation of Oxidative Stress: Pharmaceutical and Pharmacological Aspects 2018. *Oxid Med Cell Longev.* 2019 Jul 3;2019:6380473. doi: 10.1155/2019/6380473. PMID: 31354910; PMCID: PMC6636480.
- 82: Faure A, Zoratto F, Chirico D, Romano E, Mancinelli R, Saso L, Callebert J, Laviola G, Granon S, Adriani W. Reduced adolescent risk-assessment and lower nicotinic beta-2 expression in rats exposed to nicotine through lactation by forcedly drinking dams. *Neuroscience.* 2019 Aug 10;413:64-76. doi: 10.1016/j.neuroscience.2019.06.014. Epub 2019 Jun 19. PMID: 31228592.
- 83: Divya G, Albert A, Singab ANB, Ayoub IM, Al-Sayed E, Paul E, Manoharan K, Saso L, Selvam GS. Renoprotective effect of tectorigenin glycosides isolated from *< i> Iris spuria* L. (Zeal) against hyperoxaluria and hyperglycemia in NRK-49F cells. *Nat Prod Res.* 2021 Mar;35(6):1029-1034. doi: 10.1080/14786419.2019.1613396. Epub 2019 May 28. PMID: 31135219.
- 84: Velkov Z, Traykov M, Trenchev I, Saso L, Tadjer A. Topology-Dependent Dissociation Mode of the O-H Bond in Monohydroxycoumarins. *J Phys Chem A.* 2019 Jun 20;123(24):5106-5113. doi: 10.1021/acs.jpcsa.9b00535. Epub 2019 Jun 7. PMID: 31117481.
- 85: Panieri E, Saso L. Potential Applications of NRF2 Inhibitors in Cancer Therapy. *Oxid Med Cell Longev.* 2019 Apr 11;2019:8592348. doi: 10.1155/2019/8592348. PMID: 31097977; PMCID: PMC6487091.
- 86: Firuzi O, Che PP, El Hassouni B, Buijs M, Coppola S, Löhr M, Funel N, Heuchel R, Carnevale I, Schmidt T, Mantini G, Avan A, Saso L, Peters GJ, Giovannetti E. Role of c-MET Inhibitors in Overcoming Drug Resistance in Spheroid Models of Primary Human Pancreatic Cancer and Stellate Cells. *Cancers (Basel).* 2019 May 8;11(5):638. doi: 10.3390/cancers11050638. PMID: 31072019; PMCID: PMC6562408.
- 87: Telkoparan-Akillilar P, Suzen S, Saso L. Pharmacological Applications of Nrf2 Inhibitors as Potential Antineoplastic Drugs. *Int J Mol Sci.* 2019 Apr 24;20(8):2025. doi: 10.3390/ijms20082025. PMID: 31022969; PMCID: PMC6514836.
- 88: Srivastava A, Singh P, Gupta H, Kaur H, Kanodia N, Guin D, Sood M, Chadda RK, Yadav J, Vohora D, Saso L, Kukreti R. Systems Approach to Identify Common Genes and Pathways Associated with Response to Selective Serotonin Reuptake Inhibitors and Major Depression Risk. *Int J Mol Sci.* 2019 Apr 23;20(8):1993. doi: 10.3390/ijms20081993. PMID: 31018568; PMCID: PMC6514561.
- 89: Singh A, Kukreti R, Saso L, Kukreti S. Oxidative Stress: A Key Modulator in Neurodegenerative Diseases. *Molecules.* 2019 Apr 22;24(8):1583. doi: 10.3390/molecules24081583. PMID: 31013638; PMCID: PMC6514564.
- 90: Armagan G, Sevgili E, Gürkan FT, Köse FA, Bilgiç T, Dagci T, Saso L. Regulation of the Nrf2 Pathway by Glycogen Synthase Kinase-3β in MPP⁺-Induced Cell Damage. *Molecules.* 2019 Apr 8;24(7):1377. doi: 10.3390/molecules24071377. PMID: 30965670; PMCID: PMC6480928.
- 91: Stepanić V, Matijašić M, Horvat T, Verbanac D, Kučerová-Chlupáčová M, Saso L, Žarković N. Antioxidant Activities of Alkyl Substituted Pyrazine Derivatives of Chalcones-In Vitro and In Silico Study. *Antioxidants (Basel).* 2019 Apr 5;8(4):90. doi: 10.3390/antiox8040090. PMID: 30959820; PMCID: PMC6523444.
- 92: Bemppong NE, Sheath D, Seybold J, Flahault A, Depoux A, Saso L. Critical reflections, challenges and solutions for migrant and refugee health: 2nd M8 Alliance Expert Meeting. *Public Health Rev.* 2019 Mar 19;40:3. doi:

10.1186/s40985-019-0113-3. PMID: 30923641; PMCID: PMC6423837.

93: Jankovic A, Saso L, Korac A, Korac B. Relation of Redox and Structural Alterations of Rat Skin in the Function of Chronological Aging. *Oxid Med Cell Longev.* 2019 Feb 14;2019:2471312. doi: 10.1155/2019/2471312. PMID: 30906501; PMCID: PMC6393874.

94: Dimić DS, Marković ZS, Saso L, Avdović EH, Dorović JR, Petrović IP, Stanisavljević DD, Stevanović MJ, Potočnák I, Samočová E, Trifunović SR, Dimitrić Marković JM. Synthesis and Characterization of 3-(1-((3,4-Dihydroxyphenethyl)amino)ethylidene)-chroman-2,4-dione as a Potential Antitumor Agent. *Oxid Med Cell Longev.* 2019 Feb 13;2019:2069250. doi: 10.1155/2019/2069250. PMID: 30906500; PMCID: PMC6393868.

95: Beara I, Majkić T, Fioravanti S, Trulli L, Mimica-Dukić N, Pellacani L, Saso L. The Effects of Trifluoromethylated Derivatives on Prostaglandin E2 and Thromboxane A2 Production in Human Leukemic U937 Macrophages. *Med Chem.* 2020;16(1):63-68. doi: 10.2174/1573406415666190208150253. PMID: 30734682.

96: Macáková K, Afonso R, Saso L, Mladěnka P. The influence of alkaloids on oxidative stress and related signaling pathways. *Free Radic Biol Med.* 2019 Apr;134:429-444. doi: 10.1016/j.freeradbiomed.2019.01.026. Epub 2019 Jan 29. PMID: 30703480.

97: Zuhra K, Sousa PMF, Paulini G, Lemos AR, Kalme Z, Bisenieks I, Bisenieks E, Vigante B, Duburs G, Bandeiras TM, Saso L, Giuffrè A, Vicente JB. Screening Pyridine Derivatives against Human Hydrogen Sulfide-synthesizing Enzymes by Orthogonal Methods. *Sci Rep.* 2019 Jan 24;9(1):684. doi: 10.1038/s41598-018-36994-w. PMID: 30679627; PMCID: PMC6346012.

98: Hosseini R, Moosavi F, Silva T, Rajaiyan H, Hosseini SY, Bina S, Saso L, Miri R, Borges F, Firuzi O. Modulation of ERK1/2 and Akt Pathways Involved in the Neurotrophic Action of Caffeic Acid Alkyl Esters. *Molecules.* 2018 Dec 17;23(12):3340. doi: 10.3390/molecules23123340. PMID: 30562988; PMCID: PMC6321311.

99: Ranjbar S, Khonkarn R, Moreno A, Baubichon-Cortay H, Miri R, Khoshneviszadeh M, Saso L, Edraki N, Falson P, Firuzi O. 5-Oxo-hexahydroquinoline derivatives as

modulators of P-gp, MRP1 and BCRP transporters to overcome multidrug resistance in cancer cells. *Toxicol Appl Pharmacol.* 2019 Jan 1;362:136-149. doi: 10.1016/j.taap.2018.10.025. Epub 2018 Nov 2. PMID: 30391378.

100: Sova M, Saso L. Design and development of Nrf2 modulators for cancer chemoprevention and therapy: a review. *Drug Des Devel Ther.* 2018 Sep 25;12:3181-3197. doi: 10.2147/DDDT.S172612. PMID: 30288023; PMCID: PMC6161735.

101: Ranjbar S, Firuzi O, Edraki N, Shahraki O, Saso L, Khoshneviszadeh M, Miri R. Tetrahydroquinolinone derivatives as potent P-glycoprotein inhibitors: design, synthesis, biological evaluation and molecular docking analysis. *Medchemcomm.* 2017 Aug 23;8(10):1919-1933. doi: 10.1039/c7md00178a. PMID: 30108713; PMCID: PMC6072533.

102: Profumo E, Buttari B, Tinaburri L, D'Arcangelo D, Sorice M, Capozzi A, Garofalo T, Facchiano A, Businaro R, Kumar P, Singh BK, Parmar VS, Saso L, Riganò R. Oxidative Stress Induces HSP90 Upregulation on the Surface of Primary Human Endothelial Cells: Role of the Antioxidant 7,8-Dihydroxy-4-methylcoumarin in Preventing HSP90 Exposure to the Immune System. *Oxid Med Cell Longev.* 2018 Apr 10;2018:2373167. doi: 10.1155/2018/2373167. PMID: 29849874; PMCID: PMC5914108.

103: Muronetz VI, Melnikova AK, Saso L, Schmalhausen EV. Influence of Oxidative Stress on Catalytic and Non-glycolytic Functions of Glyceraldehyde-3-phosphate Dehydrogenase. *Curr Med Chem.* 2020;27(13):2040-2058. doi: 10.2174/0929867325666180530101057. PMID: 29848267.

104: Magnifico MC, Xhani M, Popov M, Saso L, Sarti P, Arese M. Nonylphenol and Octylphenol Differently Affect Cell Redox Balance by Modulating the Nitric Oxide Signaling. *Oxid Med Cell Longev.* 2018 Apr 2;2018:1684827. doi: 10.1155/2018/1684827. PMID: 29805728; PMCID: PMC5901947.

105: Talwar P, Gupta R, Kushwaha S, Agarwal R, Saso L, Kukreti S, Kukreti R. Viral Induced Oxidative and Inflammatory Response in Alzheimer's Disease Pathogenesis with Identification of Potential Drug Candidates: A Systematic Review using Systems Biology Approach. *Curr Neuropharmacol.* 2019;17(4):352-365. doi: 10.2174/1570159X16666180419124508. PMID: 29676229; PMCID: PMC6482477.

106: Djukic M, Fesatidou M, Xenikakis I, Geronikaki A, Angelova VT, Savic V, Pasic M, Krilovic B, Djukic D, Gobeljic B, Pavlica M, Djuric A, Stanojevic I, Vojvodic D, Saso L. In vitro antioxidant activity of thiazolidinone derivatives of 1,3-thiazole and 1,3,4-thiadiazole. *Chem Biol Interact.* 2018 Apr 25;286:119-131. doi: 10.1016/j.cbi.2018.03.013. Epub 2018 Mar 21. PMID: 29574026.

107: Bloch S, Nejman-Faleńczyk B, Pierzynowska K, Piotrowska E, Węgrzyn A, Marminon C, Bouaziz Z, Nebois P, Jose J, Le Borgne M, Saso L, Węgrzyn G. Inhibition of Shiga toxin-converting bacteriophage development by novel antioxidant compounds. *J Enzyme Inhib Med Chem.* 2018 Dec;33(1):639-650. doi: 10.1080/14756366.2018.1444610. PMID: 29536772; PMCID: PMC6009899.

108: Catapano MC, Karlíčková J, Tvrď V, Sharma S, Prasad AK, Saso L, Chhillar AK, Kuneš J, Pour M, Parmar VS, Mladěnka P. Mono and dihydroxy coumarin derivatives: Copper chelation and reduction ability. *J Trace Elem Med Biol.* 2018 Mar;46:88-95. doi: 10.1016/j.jtemb.2017.11.014. Epub 2017 Nov 27. PMID: 29413115.

109: Saso L, Korkina L, Zarkovic N. Modulation of Oxidative Stress: Pharmaceutical and Pharmacological Aspects 2017. *Oxid Med Cell Longev.* 2017;2017:4802824. doi: 10.1155/2017/4802824. Epub 2017 Dec 17. PMID: 29391925; PMCID: PMC5748130.

110: Kancheva VD, Slavova-Kazakova AK, Angelova SE, Kumar P, Malhotra S, Singh BK, Saso L, Prasad AK, Parmar VS. Protective effects of new antioxidant compositions of 4-methylcoumarins and related compounds with dl- α -tocopherol and l-ascorbic acid. *J Sci Food Agric.* 2018 Aug;98(10):3784-3794. doi: 10.1002/jsfa.8892. Epub 2018 Mar 15. PMID: 29344958.

111: Loubidi M, Jouha J, Tber Z, Khouili M, Suzenet F, Akssira M, Erdogan MA, Köse FA, Dagci T, Armagan G, Saso L, Guillaumet G. Efficient synthesis and first regioselective C-6 direct arylation of imidazo[2,1-c][1,2,4]triazine scaffold and their evaluation in H₂O₂-induced oxidative stress. *Eur J Med Chem.* 2018 Feb 10;145:113-123. doi: 10.1016/j.ejmecm.2017.12.081. Epub 2017 Dec 27. PMID: 29324335.

112: Applova L, Veljovic E, Muratovic S, Karlickova J, Macakova K, Zavrsnik D,

Saso L, Duric K, Mladenka P. 9-(4'-dimethylaminophenyl)-2,6,7-trihydroxy-xanthen-3-one is a Potentially Novel Antiplatelet Drug which Antagonizes the Effect of Thromboxane A2. *Med Chem.* 2018 Feb 6;14(2):200-209. doi: 10.2174/1573406413666171010102535. PMID: 29032760.

113: Grewal GK, Kukal S, Kanojia N, Madan K, Saso L, Kukreti R. In Vitro Assessment of the Effect of Antiepileptic Drugs on Expression and Function of ABC Transporters and Their Interactions with ABCC2. *Molecules.* 2017 Sep 29;22(10):1484. doi: 10.3390/molecules22101484. PMID: 28961159; PMCID: PMC6151573.

114: Kancheva VD, Slavova-Kazakova AK, Angelova SE, Singh SK, Malhotra S, Singh BK, Saso L, Prasad AK, Parmar VS. Protective effects of 4-methylcoumarins and related compounds as radical scavengers and chain-breaking antioxidants. *Biochimie.* 2017 Sep;140:133-145. doi: 10.1016/j.biochi.2017.07.010. Epub 2017 Jul 25. PMID: 28751215.

115: Menezes JCJMDS, Edraki N, Kamat SP, Khoshneviszadeh M, Kayani Z, Mirzaei HH, Miri R, Erfani N, Nejati M, Cavaleiro JAS, Silva T, Saso L, Borges F, Firuzi O. Long Chain Alkyl Esters of Hydroxycinnamic Acids as Promising Anticancer Agents: Selective Induction of Apoptosis in Cancer Cells. *J Agric Food Chem.* 2017 Aug 23;65(33):7228-7239. doi: 10.1021/acs.jafc.7b01388. Epub 2017 Aug 8. PMID: 28718636.

116: Gurer-Orhan H, Ince E, Konyar D, Saso L, Suzen S. The Role of Oxidative Stress Modulators in Breast Cancer. *Curr Med Chem.* 2018;25(33):4084-4101. doi: 10.2174/0929867324666170711114336. PMID: 28699501.

117: Ganesan D, Al-Sayed E, Albert A, Paul E, Singab ANB, Govindan Sadasivam S, Saso L. Antioxidant activity of phenolic compounds from extracts of *Eucalyptus globulus* and *Melaleuca styphelioides* and their protective role on D-glucose-induced hyperglycemic stress and oxalate stress in NRK-49F cells. *Nat Prod Res.* 2018 Jun;32(11):1274-1280. doi: 10.1080/14786419.2017.1343324. Epub 2017 Jun 21. PMID: 28637361.

118: Graziani M, Sarti P, Arese M, Magnifico MC, Badiani A, Saso L. Cardiovascular Mitochondrial Dysfunction Induced by Cocaine: Biomarkers and Possible Beneficial Effects of Modulators of Oxidative Stress. *Oxid Med Cell Longev.* 2017;2017:3034245. doi: 10.1155/2017/3034245. Epub 2017 May 16. PMID:

28593024; PMCID: PMC5448156.

119: Moosavi F, Hosseini R, Rajaian H, Silva T, Magalhães E Silva D, Saso L, Edraki N, Miri R, Borges F, Firuzi O. Derivatives of caffeic acid, a natural antioxidant, as the basis for the discovery of novel nonpeptidic neurotrophic agents. *Bioorg Med Chem*. 2017 Jun 15;25(12):3235-3246. doi: 10.1016/j.bmc.2017.04.026. Epub 2017 Apr 27. PMID: 28495385.

120: Boldrini P, Fusco A, Nicoletti F, Badiani A, Saso L. Potential Use of Modulators of Oxidative Stress as Add-on Therapy in Patients with Anxiety Disorders. *Curr Drug Targets*. 2018;19(6):636-650. doi: 10.2174/1389450118666170425153356. PMID: 28443504.

121: Milkovic L, Zarkovic N, Saso L. Controversy about pharmacological modulation of Nrf2 for cancer therapy. *Redox Biol*. 2017 Aug;12:727-732. doi: 10.1016/j.redox.2017.04.013. Epub 2017 Apr 8. PMID: 28411557; PMCID: PMC5393166.

122: Joshi R, Rohil V, Arora S, Manral S, Kumar A, Goel S, Priya N, Singh P, Ponnaiyan P, Chatterji S, Dwarakanath BS, Saluja D, Rawat DS, Prasad AK, Saso L, Kohli E, DePass AL, Bracke ME, Parmar VS, Raj HG. Corrigendum to The Competence of 7,8-Diacetoxy-4-Methylcoumarin and Other Polyphenolic Acetates in Mitigating the Oxidative Stress and their Role in Angiogenesis. *Curr Top Med Chem*. 2017;17(9):1115. doi: 10.2174/156802661709170213214101. Erratum for: *Curr Top Med Chem*. 2015;15(2):179-86. PMID: 28406076.

123: Ganguly G, Chakrabarti S, Chatterjee U, Saso L. Proteinopathy, oxidative stress and mitochondrial dysfunction: cross talk in Alzheimer's disease and Parkinson's disease. *Drug Des Devel Ther*. 2017 Mar 16;11:797-810. doi: 10.2147/DDDT.S130514. PMID: 28352155; PMCID: PMC5358994.

124: Grewal GK, Kukal S, Kanojia N, Saso L, Kukreti S, Kukreti R. Effect of Oxidative Stress on ABC Transporters: Contribution to Epilepsy Pharmacoresistance. *Molecules*. 2017 Feb 27;22(3):365. doi: 10.3390/molecules22030365. PMID: 28264441; PMCID: PMC6155434.

125: Shahraki O, Edraki N, Khoshneviszadeh M, Zargari F, Ranjbar S, Saso L, Firuzi O, Miri R. Novel 5-oxo-hexahydroquinoline derivatives: design, synthesis, in vitro P-glycoprotein-mediated multidrug resistance reversal profile and

molecular dynamics simulation study. *Drug Des Devel Ther*. 2017 Feb 14;11:407-418. doi: 10.2147/DDDT.S119995. PMID: 28243063; PMCID: PMC5317256.

126: Jouha J, Loubidi M, Bouali J, Hamri S, Hafid A, Suzenet F, Guillaumet G, Dagci T, Khouili M, Aydm F, Saso L, Armagan G. Synthesis of new heterocyclic compounds based on pyrazolopyridine scaffold and evaluation of their neuroprotective potential in MPP^{+/-}-induced neurodegeneration. *Eur J Med Chem*. 2017 Mar 31;129:41-52. doi: 10.1016/j.ejmech.2017.02.019. Epub 2017 Feb 11. PMID: 28214632.

127: Albert A, Tiwari V, Paul E, Ganesan D, Ayyavu M, Kujur R, Ponnusamy S, Shanmugam K, Saso L, Govindan Sadashivam S. Expression of heterologous oxalate decarboxylase in HEK293 cells confers protection against oxalate induced oxidative stress as a therapeutic approach for calcium oxalate stone disease. *J Enzyme Inhib Med Chem*. 2017 Dec;32(1):426-433. doi: 10.1080/14756366.2016.1256884. PMID: 28118755; PMCID: PMC6010120.

128: Suzen S, Gurer-Orhan H, Saso L. Detection of Reactive Oxygen and Nitrogen Species by Electron Paramagnetic Resonance (EPR) Technique. *Molecules*. 2017 Jan 21;22(1):181. doi: 10.3390/molecules22010181. PMID: 28117726; PMCID: PMC6155876.

129: Begic A, Djuric A, Ninkovic M, Stevanovic I, Djurdjevic D, Pavlovic M, Jelic K, Pantelic A, Zebic G, Dejanovic B, Stanojevic I, Vojvodic D, Milosavljevic P, Djukic M, Saso L. Disulfiram moderately restores impaired hepatic redox status of rats subchronically exposed to cadmium. *J Enzyme Inhib Med Chem*. 2017 Dec;32(1):478-489. doi: 10.1080/14756366.2016.1261132. PMID: 28102089; PMCID: PMC6010100.

130: Angelova VT, Valcheva V, Vassilev NG, Buyukliev R, Momekov G, Dimitrov I, Saso L, Djukic M, Shivachev B. Antimycobacterial activity of novel hydrazide-hydrazone derivatives with 2H-chromene and coumarin scaffold. *Bioorg Med Chem Lett*. 2017 Jan 15;27(2):223-227. doi: 10.1016/j.bmcl.2016.11.071. Epub 2016 Nov 25. PMID: 27914798.

131: Brizzolari A, Campisi GM, Santaniello E, Razzaghi-Asl N, Saso L, Foti MC. Effect of organic co-solvents in the evaluation of the hydroxyl radical scavenging activity by the 2-deoxyribose degradation assay: The paradigmatic case of α -lipoic acid. *Biophys Chem*. 2017 Jan;220:1-6. doi:

10.1016/j.bpc.2016.10.005. Epub 2016 Oct 31. PMID: 27825024.

132: Hosseini R, Moosavi F, Rajaian H, Silva T, Magalhães E Silva D, Soares P, Saso L, Edraki N, Miri R, Borges F, Firuzi O. Discovery of neurotrophic agents based on hydroxycinnamic acid scaffold. *Chem Biol Drug Des.* 2016 Dec;88(6):926-937. doi: 10.1111/cbdd.12829. Epub 2016 Sep 9. PMID: 27465784.

133: Jović M, Cerović S, Zolotarevska L, Gačević M, Stanojević I, Miller K, Đukić M, Saso L, Jauković L, Vojvodić D. Correlation of local and systemic expression of survivin with histopathological parameters of cutaneous melanoma. *Vojnosanit Pregl.* 2016 Nov;73(11):1022-9. doi: 10.2298/VSP150519119J. PMID: 29328641.

134: Malhotra S, Tavakkoli M, Edraki N, Miri R, Sharma SK, Prasad AK, Saso L, Len C, Parmar VS, Firuzi O. Neuroprotective and Antioxidant Activities of 4-Methylcoumarins: Development of Structure-Activity Relationships. *Biol Pharm Bull.* 2016;39(9):1544-8. doi: 10.1248/bpb.b16-00005. PMID: 27582333.

135: Verbanac D, Malik R, Chand M, Kushwaha K, Vashist M, Matijašić M, Stepanić V, Perić M, Paljetak HC, Saso L, Jain SC. Synthesis and evaluation of antibacterial and antioxidant activity of novel 2-phenyl-quinoline analogs derivatized at position 4 with aromatically substituted 4H-1,2,4-triazoles. *J Enzyme Inhib Med Chem.* 2016;31(sup2):104-110. doi: 10.1080/14756366.2016.1190714. Epub 2016 Jun 19. PMID: 27319400.

136: Phan CW, Sabaratnam V, Bovicelli P, Righi G, Saso L. Neglectin as a neuroprotectant enhances the action of nerve growth factor and induces neurite outgrowth in PC12 cells. *Biofactors.* 2016 Nov 12;42(6):591-599. doi: 10.1002/biof.1296. Epub 2016 May 19. PMID: 27193378.

137: Carvalho AN, Firuzi O, Gama MJ, Horssen JV, Saso L. Oxidative Stress and Antioxidants in Neurological Diseases: Is There Still Hope? *Curr Drug Targets.* 2017 Mar 30;18(6):705-718. doi: 10.2174/1389450117666160401120514. PMID: 27033198.

138: Korkina L, Ozben T, Saso L. Modulation of Oxidative Stress: Pharmaceutical and Pharmacological Aspects. *Oxid Med Cell Longev.* 2016;2016:6023417. doi: 10.1155/2016/6023417. Epub 2016 Feb 24. PMID: 27006747; PMCID: PMC4783544.

139: Gurer-Orhan H, Karaaslan C, Ozcan S, Firuzi O, Tavakkoli M, Saso L, Suzen S. Novel indole-based melatonin analogues: Evaluation of antioxidant activity and protective effect against amyloid β-induced damage. *Bioorg Med Chem.* 2016 Apr 15;24(8):1658-64. doi: 10.1016/j.bmc.2016.02.039. Epub 2016 Mar 2. PMID: 26970662.

140: Cort A, Ozben T, Saso L, De Luca C, Korkina L. Redox Control of Multidrug Resistance and Its Possible Modulation by Antioxidants. *Oxid Med Cell Longev.* 2016;2016:4251912. doi: 10.1155/2016/4251912. Epub 2016 Jan 5. PMID: 26881027; PMCID: PMC4736404.

141: Graziani M, Antonilli L, Togna AR, Grassi MC, Badiani A, Saso L. Cardiovascular and Hepatic Toxicity of Cocaine: Potential Beneficial Effects of Modulators of Oxidative Stress. *Oxid Med Cell Longev.* 2016;2016:8408479. doi: 10.1155/2016/8408479. Epub 2015 Dec 28. PMID: 26823954; PMCID: PMC4707355.

142: Moosavi F, Hosseini R, Saso L, Firuzi O. Modulation of neurotrophic signaling pathways by polyphenols. *Drug Des Devel Ther.* 2015 Dec 21;10:23-42. doi: 10.2147/DDDT.S96936. PMID: 26730179; PMCID: PMC4694682.

143: Filipský T, Mladenka P, Macáková K, Hrdina R, Saso L, Marchetti F, Pettinari C. Effect of novel 1-phenyl-3-methyl-4-acetylpyrazolones on iron chelation and Fenton reaction. *Free Radic Biol Med.* 2014 Oct;75 Suppl 1:S29-30. doi: 10.1016/j.freeradbiomed.2014.10.758. Epub 2014 Dec 10. PMID: 26461329.

144: Khoshaman K, Yousefi R, Tamaddon AM, Saso L, Moosavi-Movahedi AA. The impact of Hydrogen peroxide on structure, stability and functional properties of Human R12C mutant αA-crystallin: The imperative insights into pathomechanism of the associated congenital cataract incidence. *Free Radic Biol Med.* 2015 Dec;89:819-30. doi: 10.1016/j.freeradbiomed.2015.09.013. Epub 2015 Oct 12. PMID: 26459035.

145: Djuric A, Begic A, Gobeljic B, Stanojevic I, Ninkovic M, Vojvodic D, Pantelic A, Zebic G, Prokic V, Dejanovic B, Stojanovic I, Pavlica M, Djukic D, Saso L, Djurdjevic D, Pavlovic M, Topic A, Vujanovic D, Stevnovic I, Djukic M. Oxidative stress, bioelements and androgen status in testes of rats subacutely exposed to cadmium. *Food Chem Toxicol.* 2015 Dec;86:25-33. doi:

10.1016/j.fct.2015.09.004. Epub 2015 Sep 16. PMID: 26385724.

146: Martin J, Mladěnka P, Saso L, Kostova I. Lanthanide(III) complexes are more active inhibitors of the Fenton reaction than pure ligands. *Redox Rep.* 2016 Mar;21(2):84-9. doi: 10.1179/1351000215Y.0000000031. Epub 2016 Feb 18. PMID: 26193444; PMCID: PMC6837644.

147: Miri R, Nejati M, Saso L, Khakdan F, Parshad B, Mathur D, Parmar VS, Bracke ME, Prasad AK, Sharma SK, Firuzi O. Structure-activity relationship studies of 4-methylcoumarin derivatives as anticancer agents. *Pharm Biol.* 2016;54(1):105-10. doi: 10.3109/13880209.2015.1016183. Epub 2015 May 27. PMID: 26017566.

148: Miller E, Morel A, Saso L, Saluk J. Melatonin redox activity. Its potential clinical applications in neurodegenerative disorders. *Curr Top Med Chem.* 2015;15(2):163-9. PMID: 25985818.

149: Borges F, Garrido J, Saso L, Suzen S. Oxidative stress as a pharmacological target for medicinal chemistry: synthesis and evaluation of compounds with redox activity - part 4. *Curr Top Med Chem.* 2015;15(9):821. doi: 10.2174/156802661509150320111829. PMID: 25821976.

150: Borges F, Garrido J, Saso L, Suzen S. Oxidative stress as a pharmacological target for medicinal chemistry: synthesis and evaluation of compounds with redox activity--part 3. *Curr Top Med Chem.* 2015;15(5):414. doi: 10.2174/156802661505150223095720. PMID: 25714430.

151: Ramprasad T, Vasudevan V, Sasikumar S, Puhari SS, Saso L, Selvam GS. Regression of oxidative stress by targeting eNOS and Nrf2/ARE signaling: a guided drug target for cardiovascular diseases. *Curr Top Med Chem.* 2015;15(9):857-71. doi: 10.2174/1568026615666150220114417. PMID: 25697563.

152: Ivanovska N, Saso L, Dimitrov P. Kinase inhibitors with redox and anti-inflammatory activities. *Curr Top Med Chem.* 2015;15(9):872-85. doi: 10.2174/1568026615666150220115838. PMID: 25697562.

153: Das KK, Razzaghi-Asl N, Tikare SN, Di Santo R, Costi R, Messore A, Pescatori L, Crucitti GC, Jargar JG, Dhundasi SA, Saso L. Hypoglycemic activity of curcumin synthetic analogues in alloxan-induced diabetic rats. *J Enzyme Inhib Med Chem.* 2016;31(1):99-105. doi: 10.3109/14756366.2015.1004061. Epub 2015 Feb

16. PMID: 25683079.

154: Borges F, Garrido J, Saso L, Suzen S. Oxidative stress as a pharmacological target for medicinal chemistry: synthesis and evaluation of compounds with redox activity - part 2. *Curr Top Med Chem.* 2015;15(2):84. doi: 10.2174/1568026615666150120151459. PMID: 25599751.

155: Joshi R, Rohil V, Arora S, Kumar A, Manral S, Goel S, Priya N, Singh P, Ponnan P, Chatterji S, Dwarakanath BS, Saluja D, Rawat DS, Prasad AK, Saso L, Kohli E, DePass AL, Bracke ME, Parmar VS, Raj HG. The Competence of 7,8-Diacetoxy-4-Methylcoumarin and Other Polyphenolic Acetates in Mitigating the Oxidative Stress and their Role in Angiogenesis. *Curr Top Med Chem.* 2015;15(2):179-86. Erratum in: *Curr Top Med Chem.* 2017;17 (9):1115. PMID: 25547104.

156: Miller E, Morel A, Saso L, Saluk J. Melatonin Redox Activity. Its Potential Clinical Application in Neurodegenerative Disorders. *Curr Top Med Chem.* 2014 Dec 29. Epub ahead of print. PMID: 25547102.

157: Borges F, Saso L, Garrido J, Suzen S. Oxidative stress as a pharmacological target for medicinal chemistry: synthesis and evaluation of compounds with redox activity - part 1. *Curr Top Med Chem.* 2014;14(22):2461. doi: 10.2174/1568026615666141216121823. PMID: 25515767.

158: Joshi R, Arora S, Kumar A, Manral S, Rohil V, Goel S, Priya N, Singh P, Ponnan P, Chatterji S, Dwarakanath BS, Saluja D, Rawat DS, Prasad AK, Saso L, Kohli E, DePass AL, Bracke ME, Parmar VS, Raj HG. The Competence Of 7,8-Diacetoxy-4-Methylcoumarinand Other Polyphenolic Acetates In Mitigating The Oxidative Stress And Their Role In Angiogenesis. *Curr Top Med Chem.* 2014 Dec 9. Epub ahead of print. PMID: 25496273.

159: Venkateswaran K, Verma A, Bhatt AN, Agrawala PK, Raj HG, Malhotra S, Prasad AK, Wever OD, Bracke ME, Saso L, Parmar VS, Srivastava A, Dwarakanath BS. Modifications of cell signalling and redox balance by targeting protein acetylation using natural and engineered molecules: implications in cancer therapy. *Curr Top Med Chem.* 2014;14(22):2495-507. doi: 10.2174/1568026614666141203122005. PMID: 25478886.

160: Valcheva-Traykova M, Saso L, Kostova I. Involvement of lanthanides in the free radicals homeostasis. *Curr Top Med Chem.* 2014;14(22):2508-19. doi:

- 10.2174/1568026614666141203123620. PMID: 25478885.**
- 161:** Muronetz V, Asryants R, Semenyuk P, Schmalhausen E, Saso L. Hydrophobic plant antioxidants. Preparation of nanoparticles and their application for prevention of neurodegenerative diseases. Review and experimental data. *Curr Top Med Chem.* 2014;14(22):2520-8. doi: 10.2174/1568026614666141203124057. PMID: 25478884.
- 162:** Profumo E, Buttari B, Saso L, Rigano R. Pleiotropic effects of statins in atherosclerotic disease: focus on the antioxidant activity of atorvastatin. *Curr Top Med Chem.* 2014;14(22):2542-51. doi: 10.2174/1568026614666141203130324. PMID: 25478882.
- 163:** Shekari F, Sadeghpour H, Javidnia K, Saso L, Nazari F, Firuzi O, Miri R. Cytotoxic and multidrug resistance reversal activities of novel 1,4-dihydropyridines against human cancer cells. *Eur J Pharmacol.* 2015 Jan 5;746:233-44. doi: 10.1016/j.ejphar.2014.10.058. Epub 2014 Nov 14. PMID: 25445037.
- 164:** Saso L, Firuzi O. Pharmacological applications of antioxidants: lights and shadows. *Curr Drug Targets.* 2014;15(13):1177-99. doi: 10.2174/1389450115666141024113925. PMID: 25341421.
- 165:** Chandak N, Bhardwaj JK, Zheleva-Dimitrova D, Kitanov G, Sharma RK, Sharma PK, Saso L. Effective attenuation of atrazine-induced histopathological changes in testicular tissue by antioxidant N-phenyl-4-aryl-polyhydroquinolines. *J Enzyme Inhib Med Chem.* 2015;30(5):722-9. doi: 10.3109/14756366.2014.960864. PMID: 25265324.
- 166:** Banerjee P, Sahoo A, Anand S, Ganguly A, Righi G, Bovicelli P, Saso L, Chakrabarti S. Multiple mechanisms of iron-induced amyloid beta-peptide accumulation in SHSY5Y cells: protective action of negletein. *Neuromolecular Med.* 2014 Dec;16(4):787-98. doi: 10.1007/s12017-014-8328-4. Epub 2014 Sep 24. PMID: 25249289.
- 167:** Tavakkoli M, Miri R, Jassbi AR, Erfani N, Asadollahi M, Ghasemi M, Saso L, Firuzi O. Carthamus, Salvia and Stachys species protect neuronal cells against oxidative stress-induced apoptosis. *Pharm Biol.* 2014 Dec;52(12):1550-7. doi: 10.3109/13880209.2014.908394. Epub 2014 Sep 22. PMID: 25243877.
- 168:** Buttari B, Profumo E, Segoni L, D'Arcangelo D, Rossi S, Facchiano F, Saso L, Iuliano L, Businaro R, Riganò R. Resveratrol counteracts inflammation in human M1 and M2 macrophages upon challenge with 7-oxo-cholesterol: potential therapeutic implications in atherosclerosis. *Oxid Med Cell Longev.* 2014;2014:257543. doi: 10.1155/2014/257543. Epub 2014 May 8. PMID: 24895526; PMCID: PMC4034709.
- 169:** Miller E, Morel A, Saso L, Saluk J. Isoprostanes and neuroprostanes as biomarkers of oxidative stress in neurodegenerative diseases. *Oxid Med Cell Longev.* 2014;2014:572491. doi: 10.1155/2014/572491. Epub 2014 Apr 29. PMID: 24868314; PMCID: PMC4020162.
- 170:** Ponnan P, Kumar A, Singh P, Gupta P, Joshi R, Gaspari M, Saso L, Prasad AK, Rastogi RC, Parmar VS, Raj HG. Comparison of protein acetyltransferase action of CRTAase with the prototypes of HAT. *ScientificWorldJournal.* 2014 Feb 4;2014:578956. doi: 10.1155/2014/578956. PMID: 24688408; PMCID: PMC3932232.
- 171:** Togna AR, Firuzi O, Latina V, Parmar VS, Prasad AK, Salemme A, Togna GI, Saso L. 4-Methylcoumarin derivatives with anti-inflammatory effects in activated microglial cells. *Biol Pharm Bull.* 2014;37(1):60-6. doi: 10.1248/bpb.b13-00568. PMID: 24389482.
- 172:** Borges F, Saso L, Garrido J, Suzen S. Synthesis, evaluation and pharmacological applications of antioxidants- part 2. *Curr Med Chem.* 2013;20(37):4647. doi: 10.2174/092986732037131118112721. PMID: 24274815.
- 173:** Borges F, Saso L, Garrido J, Suzen S. Synthesis, evaluation and pharmacological applications of antioxidants- part 1. *Curr Med Chem.* 2013;20(36):4435. doi: 10.2174/0929867311320360001. PMID: 24206123.
- 174:** Buttari B, Profumo E, Facchiano F, Ozturk EI, Segoni L, Saso L, Riganò R. Resveratrol prevents dendritic cell maturation in response to advanced glycation end products. *Oxid Med Cell Longev.* 2013;2013:574029. doi: 10.1155/2013/574029. Epub 2013 Jul 9. PMID: 23936610; PMCID: PMC3725714.
- 175:** Kostova I, Saso L. Advances in research of Schiff-base metal complexes as potent antioxidants. *Curr Med Chem.* 2013;20(36):4609-32. doi: 10.2174/09298673113209990149. PMID: 23834186.
- 176:** Buttari B, Profumo E, Businaro R, Saso L, Capoano R, Salvati B, Riganò R.

- Oxidized haemoglobin-driven endothelial dysfunction and immune cell activation: novel therapeutic targets for atherosclerosis.** Curr Med Chem. 2013;20(37):4806-14. doi: 10.2174/09298673113209990162. PMID: 23834168.
- 177:** Tsvetkova D, Obreshkova D, Zheleva-Dimitrova D, Saso L. Antioxidant activity of galantamine and some of its derivatives. Curr Med Chem. 2013;20(36):4595-608. doi: 10.2174/09298673113209990148. PMID: 23834167.
- 178:** Firuzi O, Javidnia K, Mansourabadi E, Saso L, Mehdiour AR, Miri R. Reversal of multidrug resistance in cancer cells by novel asymmetrical 1,4-dihydropyridines. Arch Pharm Res. 2013 Nov;36(11):1392-402. doi: 10.1007/s12272-013-0149-8. Epub 2013 May 15. PMID: 23674129.
- 179:** Lombardo E, Sabellico C, Hájek J, Staňková V, Filipský T, Balducci V, De Vito P, Leone S, Bavavea EI, Silvestri IP, Righi G, Luly P, Saso L, Bovicelli P, Pedersen JZ, Incerpi S. Protection of cells against oxidative stress by nanomolar levels of hydroxyflavones indicates a new type of intracellular antioxidant mechanism. PLoS One. 2013 Apr 18;8(4):e60796. doi: 10.1371/journal.pone.0060796. PMID: 23637768; PMCID: PMC3630532.
- 180:** Suzen S, Saso L. Editorial: antioxidant heterocyclic compounds in drug discovery and medicinal chemistry. Mini Rev Med Chem. 2013 Mar;13(3):317. PMID: 23441620.
- 181:** Profumo E, Buttari B, Saso L, Capoano R, Salvati B, Riganò R. T lymphocyte autoreactivity in inflammatory mechanisms regulating atherosclerosis. ScientificWorldJournal. 2012;2012:157534. doi: 10.1100/2012/157534. Epub 2012 Dec 10. PMID: 23304078; PMCID: PMC3529860.
- 182:** Kumar A, Ponnan P, Raj HG, Parmar VS, Saso L. Comparative specificities of Calreticulin Transacetylase to O-acetyl, N-acetyl and S-acetyl derivative of 4-methylcoumarins and their inhibitory effect on AFB1-induced genotoxicity in vitro and in vivo. Food Chem Toxicol. 2013 Feb;52:216-24. doi: 10.1016/j.fct.2012.11.018. Epub 2012 Nov 23. PMID: 23182742.
- 183:** Macáková K, Řeháková Z, Mladěnka P, Karlíčková J, Filipský T, Říha M, Prasad AK, Parmar VS, Jahodář L, Pávek P, Hrdina R, Saso L. In vitro platelet antiaggregatory properties of 4-methylcoumarins. Biochimie. 2012 Dec;94(12):2681-6. doi: 10.1016/j.biochi.2012.09.006. Epub 2012 Sep 17. PMID: 22996069.
- 184:** Macáková K, Mladěnka P, Filipský T, Říha M, Jahodář L, Trejtnar F, Bovicelli P, Proietti Silvestri I, Hrdina R, Saso L. Iron reduction potentiates hydroxyl radical formation only in flavonols. Food Chem. 2012 Dec 15;135(4):2584-92. doi: 10.1016/j.foodchem.2012.06.107. Epub 2012 Jul 14. PMID: 22980846.
- 185:** Verbanac D, Jain SC, Jain N, Chand M, Cipčić Paljetak H, Matijašić M, Perić M, Stepanić V, Saso L. An efficient and convenient microwave-assisted chemical synthesis of (thio)xanthones with additional in vitro and in silico characterization. Bioorg Med Chem. 2012 May 15;20(10):3180-5. doi: 10.1016/j.bmc.2012.03.074. Epub 2012 Apr 6. PMID: 22537683.
- 186:** Profumo E, Di Franco M, Buttari B, Masella R, Filesi C, Tosti ME, Scrivo R, Scarno A, Spadaro A, Saso L, Riganò R. Biomarkers of subclinical atherosclerosis in patients with autoimmune disorders. Mediators Inflamm. 2012;2012:503942. doi: 10.1155/2012/503942. Epub 2012 Feb 22. PMID: 22529523; PMCID: PMC3317012.
- 187:** Garrido J, Gaspar A, Garrido EM, Miri R, Tavakkoli M, Pourali S, Saso L, Borges F, Firuzi O. Alkyl esters of hydroxycinnamic acids with improved antioxidant activity and lipophilicity protect PC12 cells against oxidative stress. Biochimie. 2012 Apr;94(4):961-7. doi: 10.1016/j.biochi.2011.12.015. Epub 2011 Dec 23. PMID: 22210493.
- 188:** Filipský T, Mladěnka P, Macáková K, Hrdina R, Saso L, Marchetti F, Pettinari C. In vitro characteristics of 1-phenyl-3-methyl-4-acylpyrazol-5-ones iron chelators. Biochimie. 2012 Jan;94(1):125-31. doi: 10.1016/j.biochi.2011.09.024. Epub 2011 Oct 4. PMID: 21986369.
- 189:** Adriani W, Travagliini D, Lacivita E, Saso L, Leopoldo M, Laviola G. Modulatory effects of two novel agonists for serotonin receptor 7 on emotion, motivation and circadian rhythm profiles in mice. Neuropharmacology. 2012 Feb;62(2):833-42. doi: 10.1016/j.neuropharm.2011.09.012. Epub 2011 Sep 19. PMID: 21945717.

- 190: Kancheva VD, Saso L, Angelova SE, Foti MC, Slavova-Kasakova A, Daquino C, Enchev V, Firuzi O, Nechev J. Antiradical and antioxidant activities of new bio-antioxidants. *Biochimie*. 2012 Feb;94(2):403-15. doi: 10.1016/j.biochi.2011.08.008. Epub 2011 Aug 25. PMID: 21884748.
- 191: Firuzi O, Miri R, Tavakkoli M, Saso L. Antioxidant therapy: current status and future prospects. *Curr Med Chem*. 2011;18(25):3871-88. doi: 10.2174/092986711803414368. PMID: 21824100.
- 192: Kostova I, Bhatia S, Grigorov P, Balkansky S, Parmar VS, Prasad AK, Saso L. Coumarins as antioxidants. *Curr Med Chem*. 2011;18(25):3929-51. doi: 10.2174/092986711803414395. PMID: 21824098.
- 193: Barzegar A, Pedersen JZ, Incerpi S, Moosavi-Movahedi AA, Saso L. The mechanism of antioxidant activity of IRFI005 as a synthetic hydrophilic analogue of vitamin E. *Biochimie*. 2011 Oct;93(10):1880-8. doi: 10.1016/j.biochi.2011.07.019. Epub 2011 Jul 23. PMID: 21802483.
- 194: Trapani L, Segatto M, Simeoni V, Balducci V, Dhawan A, Parmar VS, Prasad AK, Saso L, Incerpi S, Pallottini V. Short- and long-term regulation of 3-hydroxy 3-methylglutaryl coenzyme A reductase by a 4-methylcoumarin. *Biochimie*. 2011 Jul;93(7):1165-71. doi: 10.1016/j.biochi.2011.04.009. Epub 2011 Apr 23. PMID: 21530605.
- 195: Manral S, Bhatia S, Sinha R, Kumar A, Rohil V, Arya A, Dhawan A, Arya P, Joshi R, Sreedhara SC, Gangopadhyay S, Bansal SK, Chatterjee S, Chaudhury NK, Vijayan VK, Saso L, Parmar VS, DePass AL, Prasad AK, Raj HG. Normalization of deranged signal transduction in lymphocytes of COPD patients by the novel calcium channel blocker H-DHPM. *Biochimie*. 2011 Jul;93(7):1146-56. doi: 10.1016/j.biochi.2011.04.004. Epub 2011 Apr 20. PMID: 21527308.
- 196: Buttari B, Profumo E, Capozzi A, Facchiano F, Saso L, Sorice M, Riganò R. Advanced glycation end products of human β_2 glycoprotein I modulate the maturation and function of DCs. *Blood*. 2011 Jun 9;117(23):6152-61. doi: 10.1182/blood-2010-12-325514. Epub 2011 Apr 15. PMID: 21498672.
- 197: Mladěnka P, Macáková K, Filipský T, Zatloukalová L, Jahodář L, Bovicelli P, Silvestri IP, Hrdina R, Saso L. In vitro analysis of iron chelating activity of flavonoids. *J Inorg Biochem*. 2011 May;105(5):693-701. doi: 10.1016/j.jinorgbio.2011.02.003. Epub 2011 Feb 16. PMID: 21450273.
- 198: Singh P, Ponnan P, Priya N, Tyagi TK, Gaspari M, Krishnan S, Cuda G, Joshi P, Gambhir JK, Sharma SK, Prasad AK, Saso L, Rastogi RC, Parmar VS, Raj HG. Protein acyltransferase function of purified calreticulin: the exclusive role of P-domain in mediating protein acylation utilizing acyloxycoumarins and acetyl CoA as the acyl group donors. *Protein Pept Lett*. 2011 May;18(5):507-17. doi: 10.2174/092986611794927938. PMID: 21235489.
- 199: Gaspar A, Martins M, Silva P, Garrido EM, Garrido J, Firuzi O, Miri R, Saso L, Borges F. Dietary phenolic acids and derivatives. Evaluation of the antioxidant activity of sinapic acid and its alkyl esters. *J Agric Food Chem*. 2010 Nov 10;58(21):11273-80. doi: 10.1021/jf103075r. Epub 2010 Oct 15. PMID: 20949946.
- 200: Kaushik R, Marwah RG, Gupta P, Saran S, Saso L, Parmar VS, Saxena RK. Optimization of Lipase Production from *Aspergillus terreus* by Response Surface Methodology and Its Potential for Synthesis of Partial Glycerides Under Solvent Free Conditions. *Indian J Microbiol*. 2010 Oct;50(4):456-62. doi: 10.1007/s12088-011-0100-y. Epub 2011 Jan 25. PMID: 22282615; PMCID: PMC3209838.
- 201: Le-Thi-Thu H, Casañola-Martín GM, Marrero-Ponce Y, Rescigno A, Saso L, Parmar VS, Torrens F, Abad C. Novel coumarin-based tyrosinase inhibitors discovered by OECD principles-validated QSAR approach from an enlarged, balanced database. *Mol Divers*. 2011 May;15(2):507-20. doi: 10.1007/s11030-010-9274-1. Epub 2010 Sep 3. PMID: 20814821.
- 202: Petrucci R, Saso L, Kumar V, Prasad AK, Malhotra SV, Parmar VS, Marroso G. A spectroelectrochemical and chemical study on oxidation of 7,8-dihydroxy-4-methylcoumarin (DHMC) and some related compounds in aprotic medium. *Biochimie*. 2010 Sep;92(9):1123-9. doi: 10.1016/j.biochi.2010.06.008. Epub 2010 Jun 17. PMID: 20600572.
- 203: Kancheva VD, Saso L, Boranova PV, Khan A, Saroj MK, Pandey MK, Malhotra S, Nechev JZ, Sharma SK, Prasad AK, Georgieva MB, Joseph C, DePass AL, Rastogi RC, Parmar VS. Structure-activity relationship of dihydroxy-4-methylcoumarins as powerful antioxidants: correlation between experimental & theoretical data and synergistic effect. *Biochimie*. 2010 Sep;92(9):1089-100. doi:

10.1016/j.biochi.2010.06.012. Epub 2010 Jun 19. PMID: 20600568.

204: Gupta P, Balwani S, Kumar S, Aggarwal N, Rossi M, Paumier S, Caruso F, Bovicelli P, Saso L, DePass AL, Prasad AK, Parmar VS, Ghosh B. beta-sitosterol among other secondary metabolites of *Piper galeatum* shows inhibition of TNFalpha-induced cell adhesion molecule expression on human endothelial cells. *Biochimie.* 2010 Sep;92(9):1213-21. doi: 10.1016/j.biochi.2010.06.005. Epub 2010 Jun 15. PMID: 20558233.

205: Natella F, Lorrain B, Prasad AK, Parmar VS, Saso L, Scaccini C. 4-methylcoumarins as antioxidants: scavenging of peroxy radicals and inhibition of human low-density lipoprotein oxidation. *Biochimie.* 2010 Sep;92(9):1147-52. doi: 10.1016/j.biochi.2010.04.019. Epub 2010 Apr 29. PMID: 20434515.

206: Morabito G, Trombetta D, Singh Brajendra K, Prasad Ashok K, Parmar Virinder S, Naccari C, Mancari F, Saija A, Cristani M, Firuzi O, Saso L. Antioxidant properties of 4-methylcoumarins in in vitro cell-free systems. *Biochimie.* 2010 Sep;92(9):1101-7. doi: 10.1016/j.biochi.2010.04.017. Epub 2010 Apr 28. PMID: 20433892.

207: Mladenka P, Macáková K, Zatloukalová L, Reháková Z, Singh BK, Prasad AK, Parmar VS, Jahodár L, Hrdina R, Saso L. In vitro interactions of coumarins with iron. *Biochimie.* 2010 Sep;92(9):1108-14. doi: 10.1016/j.biochi.2010.03.025. Epub 2010 Apr 8. PMID: 20381579.

208: Singh P, Ponnan P, Krishnan S, Tyagi TK, Priya N, Bansal S, Scumaci D, Gaspari M, Cuda G, Joshi P, Gambhir JK, Saluja D, Prasad AK, Saso L, Rastogi RC, Parmar VS, Raj HG. Protein acyltransferase function of purified calreticulin. Part 1: characterization of propionylation of protein utilizing propoxycoumarin as the propionyl group donor. *J Biochem.* 2010 May;147(5):625-32. doi: 10.1093/jb/mvq002. Epub 2010 Jan 12. PMID: 20071373.

209: Koot S, Adriani W, Saso L, van den Bos R, Laviola G. Home cage testing of delay discounting in rats. *Behav Res Methods.* 2009 Nov;41(4):1169-76. doi: 10.3758/BRM.41.4.1169. PMID: 19897825.

210: Macrì S, Granstrem O, Shumilina M, Antunes Gomes dos Santos FJ, Berry A, Saso L, Laviola G. Resilience and vulnerability are dose-dependently related to neonatal stressors in mice. *Horm Behav.* 2009 Oct;56(4):391-8. doi:

10.1016/j.yhbeh.2009.07.006. Epub 2009 Jul 24. PMID: 19632235.

211: Dimitrova P, Gyurkovska V, Shalova I, Saso L, Ivanovska N. Inhibition of zymosan-induced kidney dysfunction by tyrphostin AG-490. *J Inflamm (Lond).* 2009 May;6:13. doi: 10.1186/1476-9255-6-13. PMID: 19416544; PMCID: PMC2687438.

212: Manconia M, Pendás J, Ledón N, Moreira T, Sinico C, Saso L, Fadda AM. Phycocyanin liposomes for topical anti-inflammatory activity: in-vitro in-vivo studies. *J Pharm Pharmacol.* 2009 Apr;61(4):423-30. doi: 10.1211/jpp/61.04.0002. PMID: 19298687.

213: Arora S, Tyagi YK, Kumar A, Majumder S, Saluja D, Raj HG, Chatterjee S, Saso L, Prasad AK, Parmar VS. The role of calreticulin transacetylase in the activation of human platelet nitrite reductase by polyphenolic acetates. *Biol Pharm Bull.* 2009 Feb;32(2):161-5. doi: 10.1248/bpb.32.161. PMID: 19182369.

214: Bansal S, Ponnan P, Raj HG, Weintraub ST, Chopra M, Kumari R, Saluja D, Kumar A, Tyagi TK, Singh P, Prasad AK, Saso L, Rastogi RC, Parmar VS. Autoacetylation of purified calreticulin transacetylase utilizing acetoxycoumarin as the acetyl group donor. *Appl Biochem Biotechnol.* 2009 May;157(2):285-98. doi: 10.1007/s12010-008-8357-2. Epub 2008 Sep 16. Erratum in: *Appl Biochem Biotechnol.* 2009 Jan;152(1):170-6. PMID: 18795239.

215: Naletova I, Schmalhausen E, Kharitonov A, Katrukha A, Saso L, Caprioli A, Muronetz V. Non-native glyceraldehyde-3-phosphate dehydrogenase can be an intrinsic component of amyloid structures. *Biochim Biophys Acta.* 2008 Dec;1784(12):2052-8. doi: 10.1016/j.bbapap.2008.07.013. Epub 2008 Aug 6. PMID: 18725330.

216: Yordanov M, Dimitrova P, Patkar S, Saso L, Ivanovska N. Inhibition of *Candida albicans* extracellular enzyme activity by selected natural substances and their application in *Candida* infection. *Can J Microbiol.* 2008 Jun;54(6):435-40. doi: 10.1139/w08-029. PMID: 18535628.

217: Firuzi O, Spadaro A, Spadaro C, Riccieri V, Petrucci R, Marrosu G, Saso L. Protein oxidation markers in the serum and synovial fluid of psoriatic arthritis patients. *J Clin Lab Anal.* 2008;22(3):210-5. doi: 10.1002/jcl.a.20243. PMID: 18484659; PMCID: PMC6649062.

- 218: Arora S, Vohra P, Kumar A, Tyagi YK, Raj HG, Dawarkanath BS, Saluja D, Saso L, Parmar VS. Calreticulin transacetylase catalyzed activation of rat tracheal smooth muscle cell nitric oxide synthase by acetoxycoumarins. *Biol Pharm Bull.* 2008 Apr;31(4):709-13. doi: 10.1248/bpb.31.709. PMID: 18379067.
- 219: Rehakova Z, Koleckar V, Cervenka F, Jahodar L, Saso L, Opletal L, Jun D, Kuca K. DPPH Radical Scavenging Activity of Several Naturally Occurring Coumarins and Their Synthesized Analogs Measured by the SIA Method. *Toxicol Mech Methods.* 2008;18(5):413-8. doi: 10.1080/15376510701511448. PMID: 20020865.
- 220: Pedersen JZ, Oliveira C, Incerpi S, Kumar V, Fiore AM, De Vito P, Prasad AK, Malhotra SV, Parmar VS, Saso L. Antioxidant activity of 4-methylcoumarins. *J Pharm Pharmacol.* 2007 Dec;59(12):1721-8. doi: 10.1211/jpp.59.12.0015. PMID: 18053335.
- 221: Jones DS, Saso L. Chemistry and biology of antioxidants. *J Pharm Pharmacol.* 2007 Dec;59(12):1671. doi: 10.1211/jpp.59.12.0009. PMID: 18053329.
- 222: Riccieri V, Spadaro A, Fuksa L, Firuzi O, Saso L, Valesini G. Specific oxidative stress parameters differently correlate with nailfold capillaroscopy changes and organ involvement in systemic sclerosis. *Clin Rheumatol.* 2008 Feb;27(2):225-30. doi: 10.1007/s10067-007-0769-9. Epub 2007 Oct 27. PMID: 17965907.
- 223: Ognibene E, Bovicelli P, Adriani W, Saso L, Laviola G. Behavioral effects of 6-bromoflavanone and 5-methoxy-6,8-dibromoflavanone as anxiolytic compounds. *Prog Neuropsychopharmacol Biol Psychiatry.* 2008 Jan 1;32(1):128-34. doi: 10.1016/j.pnpbp.2007.07.023. Epub 2007 Aug 6. PMID: 17888554.
- 224: Croce A, Firuzi O, Altieri F, Eufemi M, Agostino R, Priori R, Bombardieri M, Alessandri C, Valesini G, Saso L. Effect of infliximab on the glycosylation of IgG of patients with rheumatoid arthritis. *J Clin Lab Anal.* 2007;21(5):303-14. doi: 10.1002/jcla.20191. PMID: 17847113; PMCID: PMC6649080.
- 225: Villo L, Danilas K, Metsala A, Kreen M, Vallikivi I, Vija S, Pehk T, Saso L, Parve O. Synthesis of deoxy sugar esters: a chemoenzymatic stereoselective approach affording deoxy sugar derivatives also in the form of aldehyde. *J Org Chem.* 2007 Jul;72(15):5813-6. doi: 10.1021/jo062640b. Epub 2007 Jun 29. PMID: 17602527.
- 226: Shalova IN, Naletova IN, Saso L, Muronetz VI, Izumrudov VA. Interaction of polyelectrolytes with proteins, 3. Influence of complexing polycations on the thermoaggregation of oligomeric enzymes. *Macromol Biosci.* 2007 Jul 9;7(7):929-39. doi: 10.1002/mabi.200700052. PMID: 17582803.
- 227: Schmalhausen EV, Zhlobek EB, Shalova IN, Firuzi O, Saso L, Muronetz VI. Antioxidant and prooxidant effects of quercetin on glyceraldehyde-3-phosphate dehydrogenase. *Food Chem Toxicol.* 2007 Oct;45(10):1988-93. doi: 10.1016/j.fct.2007.04.015. Epub 2007 May 3. PMID: 17559999.
- 228: Artico M, Bronzetti E, Saso L, Felici LM, D'Ambrosio A, Forte F, Grande C, Ortolani F. Immunohistochemical profile of some neurotransmitters and neurotrophins in the seminiferous tubules of rats treated by lonidamine. *Eur J Histochem.* 2007 Jan-Mar;51(1):19-24. PMID: 17548265.
- 229: Shalova IN, Cechalova K, Rehakova Z, Dimitrova P, Ognibene E, Caprioli A, Schmalhausen EV, Muronetz VI, Saso L. Decrease of dehydrogenase activity of cerebral glyceraldehyde-3-phosphate dehydrogenase in different animal models of Alzheimer's disease. *Biochim Biophys Acta.* 2007 May;1770(5):826-32. doi: 10.1016/j.bbagen.2007.01.014. Epub 2007 Feb 4. PMID: 17324518.
- 230: Ruiz C, Falcocchio S, Pastor FI, Saso L, Diaz P. *Helicobacter pylori* EstV: identification, cloning, and characterization of the first lipase isolated from an epsilon-proteobacterium. *Appl Environ Microbiol.* 2007 Apr;73(8):2423-31. doi: 10.1128/AEM.02215-06. Epub 2007 Feb 9. PMID: 17293528; PMCID: PMC1855603.
- 231: Khanova HA, Markossian KA, Kleimenov SY, Levitsky DI, Chebotareva NA, Golub NV, Asryants RA, Muronetz VI, Saso L, Yudin IK, Muranov KO, Ostrovsky MA, Kurganov BI. Effect of alpha-crystallin on thermal denaturation and aggregation of rabbit muscle glyceraldehyde-3-phosphate dehydrogenase. *Biophys Chem.* 2007 Feb;125(2-3):521-31. doi: 10.1016/j.bpc.2006.11.002. Epub 2006 Nov 21. PMID: 17229514.
- 232: Markossian KA, Khanova HA, Kleimenov SY, Levitsky DI, Chebotareva NA, Asryants RA, Muronetz VI, Saso L, Yudin IK, Kurganov BI. Mechanism of thermal

aggregation of rabbit muscle glyceraldehyde-3-phosphate dehydrogenase. *Biochemistry*. 2006 Nov 7;45(44):13375-84. doi: 10.1021/bi0610707. PMID: 17073459.

233: Firuzi O, Mladenka P, Riccieri V, Spadaro A, Petrucci R, Marrosu G, Saso L. Parameters of oxidative stress status in healthy subjects: their correlations and stability after sample collection. *J Clin Lab Anal*. 2006;20(4):139-48. doi: 10.1002/jcla.20122. PMID: 16874810; PMCID: PMC6807518.

234: Firuzi O, Fuksa L, Spadaro C, Bousová I, Riccieri V, Spadaro A, Petrucci R, Marrosu G, Saso L. Oxidative stress parameters in different systemic rheumatic diseases. *J Pharm Pharmacol*. 2006 Jul;58(7):951-7. doi: 10.1211/jpp.58.7.0010. PMID: 16805955.

235: Falcocchio S, Ruiz C, Pastor FI, Saso L, Diaz P. Identification of a carboxylesterase-producing *Rhodococcus* soil isolate. *Can J Microbiol*. 2005 Sep;51(9):753-8. doi: 10.1139/w05-059. PMID: 16391653.

236: Shalova IN, Asryants RA, Sholukh MV, Saso L, Kurganov BI, Muronetz VI, Izumrudov VA. Interaction of polyanions with basic proteins, 2(a) : influence of complexing polyanions on the thermo-aggregation of oligomeric enzymes. *Macromol Biosci*. 2005 Dec 15;5(12):1184-92. doi: 10.1002/mabi.200500142. PMID: 16307432.

237: Maranghi F, Mantovani A, Macrì C, Romeo A, Eleuteri P, Leter G, Rescia M, Spanò M, Saso L. Long-term effects of lonidamine on mouse testes. *Contraception*. 2005 Oct;72(4):268-72. doi: 10.1016/j.contraception.2005.05.019. PMID: 16181970.

238: Traina ME, Guarino M, Urbani E, Saso L, Eleuteri P, Cordelli E, Rescia M, Leter G, Spanò M. Lonidamine transiently affects spermatogenesis in pubertal CD1 mice. *Contraception*. 2005 Oct;72(4):262-7. doi: 10.1016/j.contraception.2005.04.008. PMID: 16181969.

239: Yordanov M, Dimitrova P, Patkar S, Falcocchio S, Xoxi E, Saso L, Ivanovska N. Ibogaine reduces organ colonization in murine systemic and gastrointestinal *Candida albicans* infections. *J Med Microbiol*. 2005 Jul;54(Pt 7):647-653. doi: 10.1099/jmm.0.45919-0. PMID: 15947429.

240: Daniele C, Dahamna S, Firuzi O, Sekfali N, Saso L, Mazzanti G. Atractylis gummifera L. poisoning: an ethnopharmacological review. *J Ethnopharmacol*. 2005 Feb 28;97(2):175-81. doi: 10.1016/j.jep.2004.11.025. Epub 2005 Jan 13. PMID:

15707749.

241: Firuzi O, Lacanna A, Petrucci R, Marrosu G, Saso L. Evaluation of the antioxidant activity of flavonoids by "ferric reducing antioxidant power" assay and cyclic voltammetry. *Biochim Biophys Acta*. 2005 Jan 18;1721(1-3):174-84. doi: 10.1016/j.bbagen.2004.11.001. Epub 2004 Dec 22. PMID: 15652192.

242: Firuzi O, Mladenka P, Petrucci R, Marrosu G, Saso L. Hypochlorite scavenging activity of flavonoids. *J Pharm Pharmacol*. 2004 Jun;56(6):801-7. doi: 10.1211/0022357023556. PMID: 15231046.

243: Ruiz C, Falcocchio S, Xoxi E, Pastor FI, Diaz P, Saso L. Activation and inhibition of *Candida rugosa* and *Bacillus*-related lipases by saturated fatty acids, evaluated by a new colorimetric microassay. *Biochim Biophys Acta*. 2004 Jun 11;1672(3):184-91. doi: 10.1016/j.bbagen.2004.03.010. PMID: 15182938.

244: Firuzi O, Giansanti L, Vento R, Seibert C, Petrucci R, Marrosu G, Agostino R, Saso L. Hypochlorite scavenging activity of hydroxycinnamic acids evaluated by a rapid microplate method based on the measurement of chloramines. *J Pharm Pharmacol*. 2003 Jul;55(7):1021-7. doi: 10.1211/0022357021314. PMID: 12906760.

245: Grippa E, Gatto MT, Caiola M, Persio D, Tita B, Saso L. Effect of lonidamine on alpha2-macroglobulin, hemopexin and alpha1-antitrypsin in the rat testis and epididymis. *Res Commun Mol Pathol Pharmacol*. 2001;110(3-4):169-82. PMID: 12760487.

246: Bonanni G, Saso L. Valutazione dell'adesione alle linee guida per il trattamento farmacologico del paziente asmatico attraverso la somministrazione di un questionario in farmacia [Evaluation of the adherence to the asthma guidelines by the administration of a questionnaire in community pharmacies]. *Minerva Med*. 2003 Feb;94(1):29-40. Italian. PMID: 12719700.

247: Saso L. Effetti delle sostanze d'abuso sulla risposta sessuale [Effects of drug abuse on sexual response]. *Ann Ist Super Sanita*. 2002;38(3):289-96. Italian. PMID: 12645180.

248: Gatto MT, Firuzi O, Agostino R, Grippa E, Borsò A, Spinelli F, Pavan L, Petrolati M, Petrucci R, Marrosu G, Saso L. Development of a new assay for the screening of hypochlorous acid scavengers based on reversed-phase high-

performance liquid chromatography. *Biomed Chromatogr.* 2002 Sep;16(6):404-11. doi: 10.1002/bmc.174. PMID: 12228898.

249: Leone MG, Abdel HH, Gennaro G, Amici S, Conte D, Romanelli F, Latini M, Isidori A, Saso L, Silvestrini B. Changes of lipocalin type prostaglandin D-synthase in the seminal plasma of subfertile man. *Res Commun Mol Pathol Pharmacol.* 2001 Jul-Aug;110(1-2):17-25. PMID: 12090353.

250: Bolle P, Evandri MG, Saso L. The controversial efficacy of vitamin E for human male infertility. *Contraception.* 2002 Apr;65(4):313-5. doi: 10.1016/s0010-7824(02)00277-9. PMID: 12020785.

251: Leone MG, Haq HA, Saso L. Lipocalin type prostaglandin D-synthase: which role in male fertility? *Contraception.* 2002 Apr;65(4):293-5. doi: 10.1016/s0010-7824(02)00280-9. PMID: 12020781.

252: Gatto MT, Tita B, Artico M, Saso L. Recent studies on lonidamine, the lead compound of the antispermatic indazol-carboxylic acids. *Contraception.* 2002 Apr;65(4):277-8. doi: 10.1016/s0010-7824(02)00289-5. PMID: 12020777.

253: Cheng CY, Mo My, Grima J, Saso L, Tita B, Mruk D, Silvestrini B. Indazole carboxylic acids in male contraception. *Contraception.* 2002 Apr;65(4):265-8. doi: 10.1016/s0010-7824(01)00318-3. PMID: 12020774.

254: Gatto MT, Falcocchio S, Grippa E, Mazzanti G, Battinelli L, Nicolosi G, Lambusta D, Saso L. Antimicrobial and anti-lipase activity of quercetin and its C2-C16 3-O-acyl-esters. *Bioorg Med Chem.* 2002 Feb;10(2):269-72. doi: 10.1016/s0968-0896(01)00275-9. PMID: 11741775.

255: Tita B, Leone MG, Casini ML, Corubolo C, Bordi F, Guidolin D, Fumagalli E, Romanelli L, Mattioli F, Fehér J, Saso L. Corneal toxicity of xylazine and clonidine, in combination with ketamine, in the rat. *Ophthalmic Res.* 2001 Nov-Dec;33(6):345-52. doi: 10.1159/000055692. PMID: 11721188.

256: Vitalone A, Bordi F, Baldazzi C, Mazzanti G, Saso L, Tita B. Anti-proliferative effect on a prostatic epithelial cell line (PZ-HPV-7) by *Epilobium angustifolium* L. *Farmaco.* 2001 May-Jul;56(5-7):483-9. doi: 10.1016/s0014-827x(01)01067-9. PMID: 11482783.

257: Tita B, Abdel-Haq H, Vitalone A, Mazzanti G, Saso L. Analgesic properties

of *Epilobium angustifolium*, evaluated by the hot plate test and the writhing test. *Farmaco.* 2001 May-Jul;56(5-7):341-3. doi: 10.1016/s0014-827x(01)01046-1. PMID: 11482754.

258: Cheng CY, Silvestrini B, Grima J, Mo MY, Zhu LJ, Johansson E, Saso L, Leone MG, Palmery M, Mruk D. Two new male contraceptives exert their effects by depleting germ cells prematurely from the testis. *Biol Reprod.* 2001 Aug;65(2):449-61. doi: 10.1095/biolreprod65.2.449. PMID: 11466213.

259: Befani O, Grippa E, Saso L, Turini P, Mondovì B. Inhibition of monoamine oxidase by metronidazole. *Inflamm Res.* 2001 Apr;50 Suppl 2:S136-7. doi: 10.1007/PL00022395. PMID: 11411591.

260: Saso L, Valentini G, Casini ML, Grippa E, Gatto MT, Leone MG, Silvestrini B. Inhibition of heat-induced denaturation of albumin by nonsteroidal antiinflammatory drugs (NSAIDs): pharmacological implications. *Arch Pharm Res.* 2001 Apr;24(2):150-8. doi: 10.1007/BF02976483. PMID: 11339635.

261: Saso L, Grippa E, Gatto MT, Silvestrini B. Inhibition of calcium oxalate precipitation by bile salts. *Int J Urol.* 2001 Mar;8(3):124-7. doi: 10.1046/j.1442-2042.2001.00264.x. PMID: 11260337.

262: Riccieri V, Spadaro A, Saso L, Valentini G, Taccari E, Silvestrini B. Immunohistologic markers of immune activation and changes of glycosylation of serum proteins in primary Sjögren's syndrome. *Clin Exp Rheumatol.* 2001 Jan-Feb;19(1):53-8. PMID: 11247326.

263: Saso L, Silvestrini B. Problemi etici della sperimentazione sull'uomo con particolare riguardo al consenso informato [Ethical issues of human experimentation with special reference to informed consent]. *Minerva Med.* 2000 Oct;91(10):255-65. Italian. PMID: 11236391.

264: Grippa E, Gatto MT, Leone MG, Tita B, Abdel-Haq H, Vitalone A, Silvestrini B, Saso L. Analysis of lonidamine in rat serum and testis by high performance liquid chromatography. *Biomed Chromatogr.* 2001 Feb;15(1):1-8. doi: 10.1002/bmc.14. PMID: 11180293.

265: Saso L, Silvestrini B. Antidenaturant drugs for cataract and other condensation diseases. *Med Hypotheses.* 2001 Jan;56(1):114-20. doi: 10.1054/mehy.2000.1128. PMID: 11133267.

- 266:** Abdel-Haq H, Cometa MF, Palmery M, Leone MG, Silvestrini B, Saso L. Relaxant effects of *Hydrastis canadensis* L. and its major alkaloids on guinea pig isolated trachea. *Pharmacol Toxicol.* 2000 Nov;87(5):218-22. doi: 10.1034/j.1600-0773.2000.d01-77.x. PMID: 11129501.
- 267:** Grippa E, Pavone F, Gatto MT, Petrucci R, Marrosu G, Silvestrini B, Saso L. In vitro evaluation of antioxidant activity by electrophoresis and high performance liquid chromatography. *Biochim Biophys Acta.* 2000 Dec 15;1524(2-3):171-7. doi: 10.1016/s0304-4165(00)00154-9. PMID: 11113564.
- 268:** Saso L, Tommasino P, Italiano G, Grippa E, Leone MG, Gatto MT, Silvestrini B. Changes of acute-phase proteins in streptozotocin-induced diabetic rats. *Physiol Res.* 2000;49(4):403-9. PMID: 11072799.
- 269:** Saso L, Silvestrini B. La calcolosi renale [Nephrolithiasis]. *Recenti Prog Med.* 2000 Jul-Aug;91(7-8):388-95. Italian. PMID: 10932926.
- 270:** Mazzanti G, Mascellino MT, Battinelli L, Coluccia D, Manganaro M, Saso L. Antimicrobial investigation of semipurified fractions of *Ginkgo biloba* leaves. *J Ethnopharmacol.* 2000 Jul;71(1-2):83-8. doi: 10.1016/s0378-8741(99)00179-8. PMID: 10904149.
- 271:** Leone MG, Grippa E, Guidolin D, Tita B, Abdel-Haq H, Gatto MT, Bordi F, Cheng CY, Silvestrini B, Saso L. Effects of lonidamine on testicular and epididymal proteins in the rat. *Reprod Toxicol.* 2000 May-Jun;14(3):257-63. doi: 10.1016/s0890-6238(00)00076-9. PMID: 10838127.
- 272:** Abdel-Haq H, Giacomelli S, Palmery M, Leone MG, Saso L, Silvestrini B. Aflatoxins inhibit prolactin secretion by rat pituitary cells in culture. *Drug Chem Toxicol.* 2000 May;23(2):381-6. doi: 10.1081/dct-100100123. PMID: 10826104.
- 273:** Abdel-Haq H, Palmery M, Leone MG, Saso L, Silvestrini B. Stimulation of guinea pig isolated atria by aflatoxins. *Toxicol In Vitro.* 2000 Jun;14(3):193-7. doi: 10.1016/s0887-2333(00)00013-8. PMID: 10806369.
- 274:** Abdel-Haq H, Palmery M, Leone MG, Saso L, Silvestrini B. Relaxant effects of aflatoxins on isolated guinea pig trachea. *Toxicol Sci.* 2000 May;55(1):162-70. doi: 10.1093/toxsci/55.1.162. PMID: 10788571.
- 275:** Grippa E, Santini L, Castellano G, Gatto MT, Leone MG, Saso L. Simultaneous determination of hydrocortisone, dexamethasone, indomethacin, phenylbutazone and oxyphenbutazone in equine serum by high-performance liquid chromatography. *J Chromatogr B Biomed Sci Appl.* 2000 Jan 28;738(1):17-25. doi: 10.1016/s0378-4347(99)00478-8. PMID: 10778922.
- 276:** Saso L, Bonanni G, Grippa E, Gatto MT, Leone MG, Silvestrini B. Interaction of hyaluronic acid with mucin, evaluated by gel permeation chromatography. *Res Commun Mol Pathol Pharmacol.* 1999;104(3):277-84. PMID: 10741378.
- 277:** Saso L, Grippa E, Gatto MT, Leone MG, Silvestrini B. Inhibition of heat-induced aggregation of beta- and gamma-crystallin by alpha-crystallin evaluated by gel permeation HPLC. *Biochemistry (Mosc).* 2000 Feb;65(2):208-12. PMID: 10713549.
- 278:** Saso L, Valentini G, Riccieri V, Spadaro A, Zoppini A, Silvestrini B. Changes of glycosylation of serum proteins in Sjögren's syndrome: correlation with interleukin-6 and soluble interleukin-2 receptor. *IUBMB Life.* 1999 Oct;48(4):385-90. doi: 10.1080/713803529. PMID: 10632566.
- 279:** Grippa E, Valla R, Battinelli L, Mazzanti G, Saso L, Silvestrini B. Inhibition of *Candida rugosa* lipase by berberine and structurally related alkaloids, evaluated by high-performance liquid chromatography. *Biosci Biotechnol Biochem.* 1999 Sep;63(9):1557-62. doi: 10.1271/bbb.63.1557. PMID: 10540743.
- 280:** Saso L, Valentini G, Mattei E, Panzironi C, Casini ML, Grippa E, Silvestrini B. Stabilization of rat serum proteins following oral administration of fish oil. *Arch Pharm Res.* 1999 Oct;22(5):485-90. doi: 10.1007/BF02979157. PMID: 10549576.
- 281:** Leone MG, Saso L, Cheng CY, Silvestrini B. Micropurification of beta- and gamma-crystallins from rabbit aqueous humor. *Int J Biol Macromol.* 1999 Nov;26(2-3):167-71. doi: 10.1016/s0141-8130(99)00078-1. PMID: 10517525.
- 282:** Cazzolla N, Saso L, Grima J, Leone MG, Grippa E, Cheng CY, Silvestrini B. Development of an enzyme-linked immunosorbent assay, using a monoclonal antibody against alpha2-macroglobulin, for the diagnosis of systemic lupus erythematosus. *Clin Biochem.* 1999 Jun;32(4):249-55. doi: 10.1016/s0009-9120(99)00010-7. PMID: 10463816.

- 283: Saso L, Tommasino P, Grippa E, Leone MG, Silvestrini B. Micromethods for the analysis of tear proteins in pharmacological studies. *Res Commun Mol Pathol Pharmacol.* 1999 Feb;103(2):149-65. PMID: 10461682.
- 284: Saso L, Leone MG, Mo MY, Grippa E, Cheng CY, Silvestrini B. Differential changes in alpha2-macroglobulin and hemopexin in brain and liver in response to acute inflammation. *Biochemistry (Mosc).* 1999 Jul;64(7):839-44. PMID: 10424910.
- 285: Saso L, Valentini G, Leone MG, Grippa E, Guglielmi R, Paris L, Cantore G, Silvestrini B. Changes in concanavalin A-reactive proteins in neurological disorders. *J Clin Lab Anal.* 1999;13(4):158-65. doi: 10.1002/(sici)1098-2825(1999)13:4<158::aid-jcla4>3.0.co;2-0. PMID: 10414595; PMCID: PMC6807750.
- 286: Saso L, Valentini G, Leone MG, Grippa E, Silvestrini B. Development of an in vitro assay for the screening of substances capable of dissolving calcium oxalate crystals. *Urol Int.* 1998;61(4):210-4. doi: 10.1159/000030331. PMID: 10364751.
- 287: Saso L, Valentini G, Casini ML, Mattei E, Braghierioli L, Mazzanti G, Panzironi C, Grippa E, Silvestrini B. Inhibition of protein denaturation by fatty acids, bile salts and other natural substances: a new hypothesis for the mechanism of action of fish oil in rheumatic diseases. *Jpn J Pharmacol.* 1999 Jan;79(1):89-99. doi: 10.1254/jjp.79.89. PMID: 10082322.
- 288: Saso L, Valentini G, Grippa E, Leone MG, Silvestrini B. Effect of selected substances on heat-induced aggregation of albumin, IgG and lysozyme. *Res Commun Mol Pathol Pharmacol.* 1998 Oct;102(1):15-28. PMID: 9920343.
- 289: Saso L, Valentini G, Giardino AM, Spadaro A, Riccieri V, Zoppini A, Silvestrini B. Changes of glycosylation of serum proteins in psoriatic arthritis, studied by enzyme-linked lectin assay (ELLA), using concanavalin A. *Biochem Mol Biol Int.* 1998 Dec;46(5):867-75. doi: 10.1080/15216549800204412. PMID: 9861440.
- 290: Saso L, Leone MG, Sorrentino C, Giacomelli S, Silvestrini B, Grima J, Li JC, Samy E, Mruk D, Cheng CY. Quantification of prostaglandin D synthetase in cerebrospinal fluid: a potential marker for brain tumor. *Biochem Mol Biol Int.*
- 1998 Nov;46(4):643-56. doi: 10.1080/15216549800204172. PMID: 9844724.
- 291: Saso L, Casini ML, Valentini G, Mattei E, Panzironi C, Silvestrini B. Development of an HPLC assay to study the effect of endogenous and exogenous substances on heat-induced aggregation of human serum albumin. *Clin Chem Lab Med.* 1998 Mar;36(3):155-62. doi: 10.1515/CCLM.1998.029. PMID: 9589803.
- 292: Saso L, Valentini G, Casini ML, Mattei E, Panzironi C, Silvestrini B. Development of a turbidimetric assay to study the effect of urinary components on calcium oxalate precipitation. *Urol Int.* 1998;60(1):47-52. doi: 10.1159/000030202. PMID: 9519421.
- 293: Li AH, Zwain IH, Pineau C, Cazzolla N, Saso L, Silvestrini B, Bardin CW, Cheng CY. Response of alpha 2-macroglobulin messenger ribonucleic acid expression to acute inflammation in the testis is different from the response in the liver and brain. *Biol Reprod.* 1994 Jun;50(6):1287-96. doi: 10.1093/biolreprod.50.6.1287. PMID: 7521677.
- 294: Leone MG, Saso L, Del Vecchio A, Mo MY, Silvestrini B, Cheng CY. Micropurification of two human cerebrospinal fluid proteins by high performance electrophoresis chromatography. *J Neurochem.* 1993 Aug;61(2):533-40. doi: 10.1111/j.1471-4159.1993.tb02156.x. PMID: 8336140.
- 295: Saso L, Silvestrini B, Cheng CY. The use of high-performance electrophoresis chromatography for the micropurification of cerebrospinal fluid proteins in the rat. *Anal Biochem.* 1993 Aug 1;212(2):315-24. doi: 10.1006/abio.1993.1336. PMID: 8214572.
- 296: Saso L, Silvestrini B, Guglielmotti A, Lahita R, Cheng CY. Abnormal glycosylation of alpha 2-macroglobulin, a non-acute-phase protein in patients with autoimmune diseases. *Inflammation.* 1993 Aug;17(4):465-79. doi: 10.1007/BF00916586. PMID: 7691738.
- 297: Saso L, Silvestrini B, Lahita R, Cheng CY. Changes of immunoreactivity in alpha 1-antitrypsin in patients with autoimmune diseases. *Inflammation.* 1993 Jun;17(3):383-400. doi: 10.1007/BF00918999. PMID: 7687239.
- 298: Guglielmotti A, Silvestrini B, Saso L, Zwain I, Cheng CY. Chronic inflammatory response in the rat can be blocked by bindarit. *Biochem Mol Biol Int.* 1993 Mar;29(4):747-56. PMID: 7683947.

299: Zwain IH, Grima J, Stahler MS, Saso L, Cailleau J, Verhoeven G, Bardin CW, Cheng CY. Regulation of Sertoli cell alpha 2-macroglobulin and clusterin (SGP-2) secretion by peritubular myoid cells. *Biol Reprod.* 1993 Jan;48(1):180-7. doi: 10.1095/biolreprod48.1.180. PMID: 7678201.

300: Saso L, Silvestrini B, Zwain I, Guglielmotti A, Luparini MR, Cioli V, Cheng CY. Abnormal glycosylation of hemopexin in arthritic rats can be blocked by bindarit. *J Rheumatol.* 1992 Dec;19(12):1859-67. PMID: 1284132.

301: Schlegel PN, Matthews GJ, Cichon Z, Aulitzky WK, Cheng CY, Chen CL, Saso L, Goldstein M, Jänne OA, Bardin CW, et al. Clusterin production in the obstructed rabbit kidney: correlations with loss of renal function. *J Am Soc Nephrol.* 1992 Nov;3(5):1163-71. doi: 10.1681/ASN.V351163. PMID: 1482755.

302: Silvestrini B, Guglielmotti A, Saso L, Milanese C, Melanitou E, Grima J, Cheng CY. Development of an enzyme-linked immunosorbent assay with a monoclonal antibody prepared against alpha 1-antitrypsin for diagnostic screening of inflammatory disorders. *Clin Chem.* 1990 Feb;36(2):277-82. PMID: 1689223.

303: Silvestrini B, Guglielmotti A, Saso L, Cheng CY. Changes in concanavalin A-reactive proteins in inflammatory disorders. *Clin Chem.* 1989 Nov;35(11):2207-11. PMID: 2479495.