

Elenco completo delle pubblicazioni

- 1) Tomassini A., Curone G., Solè M., **Capuani G.**, Sciubba F., Conta G., Miccheli A. & Vigo D. - "*NMR-based metabolomics to evaluate the milk composition from Friesian and autochthonous cows of Northern Italy at different lactation times*" - Nat. Prod. Res. DOI: 10.1080/14786419.2018.1462183 (2018)
- 2) Del Chierico F., Nobili V., Vernocchi P., Russo A., De Stefanis C., Gnani D., Furlanello C., Zandonà A., Paci P., **Capuani G.**, Dallapiccola B., Miccheli A., Alisi A., Putignani L. - "*Gut microbiota profiling of pediatric nonalcoholic fatty liver disease and obese patients unveiled by an integrated meta-omics-based approach*" - Hepatology, DOI: 10.1002/hep.28572 (2017)
- 3) Sciubba F., Avanzato D., Vaccaro A. **Capuani G.**, Spagnoli M., Di Cocco M. E., Nikolova Tzareva I., Delfini M. - "*Monitoring of pistachio (*Pistacia Vera*) ripening by high field nuclear magnetic resonance spectroscopy*" - Nat. Prod. Res. DOI: 10.1080/14786419.2016.1242003 (2016)
- 4) Alberta Tomassini, Fabio Sciubba, Maria Enrica Di Cocco, **Giorgio Capuani**, Maurizio Delfini, Walter Aureli, Alfredo Miccheli - "*¹H NMR-Based Metabolomics Reveals a Pedoclimatic Metabolic Imprinting in Ready-to-Drink Carrot Juices*" - J. Agric. Food Chem. 64(25), 5284–5291 DOI: 10.1021/acs.jafc.6b01555 (2016)
- 5) Tursi A., Mastromarino P., Capobianco D., Elisei W., Miccheli A., **Capuani G.**, Tomassini A., Campagna G., Picchio M., Giorgetti G., Fabiocchi F., Brandimarte G. - "*Assessment of fecal microbiota and fecal metabolome in symptomatic uncomplicated diverticular disease of the colon*" - J. Clin. Gastroenterol. 50(s1):S9-S12 DOI: 10.1097/MCG.0000000000000626 (2016)
- 6) Tursi A., Mastromarino P., Capobianco D., Elisei W., Miccheli A., **Capuani G.**, Picchio M., Giorgetti G., Fabiocchi F., Di Fonzo M., Brandimarte G. - "*Assessment of fecal microbiota and fecal metabolome in symptomatic uncomplicated diverticular disease of the colon*" - Digestive and Liver Disease 48(s2):e175-e176 DOI: 10.1016/S1590-8658(16)30261-4 (2016)
- 7) Sciubba F, Di Cocco ME, Gianferri R, **Capuani G.**, De Salvador FR, Fontanari M, Goriotti D, Delfini M - "*Nuclear Magnetic Resonance-Based Metabolic Comparative Analysis of Two Apple Varieties with Different Resistances to Apple Scab Attacks.*" - J Agric Food Chem. 63(37):8339-47. doi: 10.1021/acs.jafc.5b03311 (2015)
- 8) Federica Del Chierico, Pamela Vernocchi, Andrea Petrucca, Paola Paci, Susana Fuentes, Giulia Praticò, **Giorgio Capuani**, Andrea Masotti, Sofia Reddel, Alessandra Russo, Cristina Vallone, Guglielmo Salvatori, Elsa Buffone, Fabrizio Signore, Giuliano Rigon, Andrea Dotta, Alfredo Miccheli, Willem M. de Vos, Bruno Dallapiccola, Lorenza Putignani - "*Phylogenetic and Metabolic Tracking of Gut Microbiota during Perinatal Development.*" - PLOS One 10(9): e0137347. doi:10.1371/journal.pone.0137347 (2015)
- 9) Alfredo Miccheli, **Giorgio Capuani**, Federico Marini, Alberta Tomassini, Giulia Praticò, Sara Ceccarelli, Daniela Gnani, Giuseppe Baviera, Anna Alisi, Lorenza Putignani, and Valerio Nobili - "*Urinary ¹H-NMR-based metabolic profiling of children with NAFLD undergoing VSL#3 treatment*" - International Journal of Obesity 39(7):1118-25. doi: 10.1038/ijo.2015.40 (2015)

- 10) Elisa Brasili, Giulia Praticò, Federico Marini, Alessio Valletta, **Giorgio Capuani**, Fabio Sciubba, Alfredo Miccheli, Gabriella Pasqua - "A non-targeted metabolomics approach to evaluate the effects of biomass growth and chitosan elicitation on primary and secondary metabolism of *Hypericum perforatum* in vitro roots" - Metabolomics, 10 (6), 1186-1196 doi: 10.1007/s11306-014-0660-z (2014)
- 11) Fabio Sciubba, **Giorgio Capuani**, Maria Enrica Di Cocco, Damiano Avanzato, Maurizio Delfini - "Nuclear Magnetic Resonance analysis of water soluble metabolites allows the geographic discrimination of Pistachios (*Pistacia vera*)" - Food Research International 62, 66-63 doi: 10.1016/j.foodres.2014.02.039 (2014)
- 12) Riccardo Calvani, Elisa Brasili, Giulia Praticò, **Giorgio Capuani**, Alberta Tomassini, Federico Marini, Fabio Sciubba, Alberto Finamore, Marianna Roselli, Emanuele Marzetti, Alfredo Miccheli - "Fecal and urinary NMR-based metabolomics unveil an aging signature in mice" - Experimental Gerontology 49, 5-11 doi:10.1016/j.exger.2013.10.010 (2014)
- 13) Giulia Praticò, **Giorgio Capuani**, Alberta Tomassini, Maria Elisabetta Baldassarre, Maurizio Delfini, Alfredo Miccheli - "Exploring human breast milk composition by NMR-based metabolomics" - Natural Product Research, 28(2), 95-101 doi:10.1080/14786419.2013.843180 (2014)
- 14) Elisa Brasili, Elena Mengheri, Alberta Tomassini, **Giorgio Capuani**, Marianna Roselli, Alberto Finamore, Fabio Sciubba, Federico Marini, Alfredo Miccheli - "Lactobacillus acidophilus La5 and bifidobacterium lactis Bb12 induce different age-related metabolic profiles revealed by ¹H-NMR spectroscopy in urine and feces of mice" - J. Nutr. 143:1549-1557, doi:10.3945/jn.113.177105 (2013)
- 15) Alberta Tomassini, **Giorgio Capuani**, Maurizio Delfini, Alfredo Miccheli - "NMR-based metabolomics in food quality control" - in Chemometrics in Food Chemistry (F. Marini ed.), Data Handling in Science and Technology (28), 411-447. (2013)
- 16) D. Capitani, L. Mannina, N. Proietti, A. Sobolev, A. Tomassini, A. Miccheli, M. E. Di Cocco, **G. Capuani**, F. R. De Salvador, M. Delfini - "Metabolic profiling and outer pericarp water state in Zespri, CI.GI and Hayward kiwifruits" - J. Agric. Food Chem., 61 (8), pp 1727–1740 doi: 10.1021/jf3028864 (2013)
- 17) M.E. Baldassarre, A. Tomassini, P. Mastromarino, **G. Capuani**, M. Delfini, F. Urbano, N. Laforgia, A. Miccheli - "¹H NMR-based metabolomics on human mature milk reveals the effects of oral VSL#3 probiotic supplementation to mothers" - Digestive and Liver Disease, 44 Suppl. 4 S241–S257 (2012)
- 18) Marianna Roselli, Alberto Finamore, Elisa Brasili, **Giorgio Capuani**, Hanne L Kristensen, Cristina Micheloni and Elena Mengheri - "Impact of organic and conventional carrots on intestinal and peripheral immunity." - J. Sci. Food and Agric, 92: 2913–2922 doi:10.1002/jsfa.5667 (2012)
- 19) Emanuele Marzetti, Hazel A. Lees, Todd M. Manini, Thomas W. Buford, Juan M. Aranda Jr., Riccardo Calvani, **Giorgio Capuani**, Michael Marsiske, Donovan J. Lott, Krista Vandeborne, Roberto Bernabei, Marco Pahor, Christiaan Leeuwenburgh, Stephanie E. Wohlgemuth - "Skeletal Muscle Apoptotic Signaling Predicts Thigh Muscle Volume and

Gait Speed in Community-Dwelling Older Persons: An Exploratory Study.” - Plos One 7(2): e32829. doi:10.1371/journal.pone.003282 (2012)

- 20) D. Avanzato, A. Vaccaro, M. Meli, M. Delfini, **G. Capuani**, M.E. Di Cocco, F. Sciubba, I. Tzareva, I. Terziev - "Effect of boron treatment on 'Bianca' and 'Gloria' pistachio cultivars." - ISHS Acta Horticulturae, 912 (B.E. Ak, M. Wirthtensohn, T. Gradziel Eds.), 143-150 (2011).
- 21) M. Delfini, **G. Capuani**, M.E. Di Cocco, F. Sciubba D. Avanzato, A. Vaccaro, M. Meli, I. Tzareva, I. Terziev - "NMR-based metabolomic analysis for the evaluation of different treatments on two pistachio cultivars." - ISHS Acta Horticulturae, 912 (B.E. Ak, M. Wirthtensohn, T. Gradziel Eds.), 203-210 (2011).
- 22) D. Capitani, L. Mannina, N. Proietti, A.P. Sobolev, A. Tomassini, A. Miccheli, M.E. Di Cocco, **G. Capuani**, R. De Salvador, M. Delfini - "Monitoring of metabolic profiling and water status of Hayward kiwifruits by nuclear magnetic resonance" - Talanta 82: 1826–1838 (2010) .
- 23) Alfredo Miccheli, Federico Marini, **Giorgio Capuani**, Alberta Tomassini Miccheli, Maurizio Delfini, Maria Enrica Di Cocco, Caterina Puccetti, Maurizio Paci, Marta Rizzo, Antonio Spataro. - "The influence of a sports drink on the postexercise metabolism of elite athletes as investigated by nmr-based metabolomics" - J. Amer. Coll. Nutr., 28(5), 553–564 (2009).
- 24) R. Calvani, A. Miccheli, **G. Capuani**, A. Tomassini Miccheli, C. Puccetti, M. Delfini, A. Iaconelli, G. Nanni and G. Mingrone. - "Gut microbiome-derived metabolites characterize a peculiar obese urinary metabotype" - Intl. J. Obesity, 34:1095–1098 (2010).
- 25) R. Goodacre, D. Broadhurst, A. K. Smilde, B. S. Kristal, J. D. Baker, R. Beger, C. Bessant, S. Connor, **G. Capuani**, A. Craig, T. Ebbels, D. B. Kell, C. Manetti, J. Newton, G. Paternostro, R. Somorjai, M. Sjostrom, J. Trygg, F. Wulfert - "Proposed minimum reporting standards for data analysis in metabolomics" - Metabolomics, 3:231–241 (2007).
- 26) Colafranceschi, Mauro; **Capuani, Giorgio**; Miccheli, Alfredo; Campo, Silvia; Valerio, Mariacristina; Tomassini, Alberta; Giuliani, Alessandro; Arseni, Brunilde; Rossi, Stefania; De Santis, Rita; Carminati, Paolo; Ruggiero, Vito; Conti, Filippo. - "Dissecting drug and vehicle metabolic effects in rats by a metabonomic approach." - J. Biochem. Biophys. Methods, 70(3), 355-361 (2007).
- 27) Masotti, A.; Mangiola, A.; Sabatino, G.; Maira, G.; Denaro, L.; Conti, F.; Ortaggi, G.; **Capuani, G.** - "Intracerebral diffusion of paramagnetic cationic liposomes containing Gd(DTPA)₂- followed by MRI spectroscopy: assessment of pattern diffusion and time steadiness of a non-viral vector model." - Intl. J. Immunopathol. Pharmacol., 19(2), 379-390. (2006)
- 28) S. Murtas, **G. Capuani**, M. Dentini, C. Manetti, G. Masci, M. Massimi, A. Miccheli, V. Crescenzi - "Alginate beads as immobilization matrix for hepatocytes perfused in a bioreactor: a physico-chemical characterization" - J. Biomater. Sci. Polymer Edn., 16(7), 829-846 (2005)
- 29) A. Miccheli, C. Puccetti, **G. Capuani**, M.E. Di Cocco, L. Giardino, L. Calzà, A. Battaglia, L. Battistin, F. Conti – "[1-¹³C]Glucose entry in neuronal and astrocytic intermediary

metabolism of agd rats. A study of the effects of Nicergoline treatment by ¹³C NMR spectroscopy – Brain Res., 966, 116-125 (2003).

- 30) T. Aureli, M.E. Di Cocco, **G. Capuani**, R. Ricciolini, C. Manetti, A. Miccheli and F. Conti – “*Effect of long-term feeding with acetyl-L-carnitine on the age- related changes in rat brain lipid composition: a study by ³¹P NMR spectroscopy*” – Neurochem. Res., 25 (3), 395-399 (2000).
- 31) **G. Capuani**, A. Miccheli, A. Tomassini, L. Falasca, T. Aureli and F. Conti – “*Cellular volume determination of alginate-entrapped hepatocytes by MRI diffusion measurements*” - Artif. Cells Blood Subst., 28 (4), 293-305 (2000).
- 32) A. Miccheli, A. Tomassini, **G. Capuani**, M.E. Di Cocco, E. Sartori, L. Falasca, L. Conti Devirgiliis, C. Manetti, F. Conti - “*Energy metabolism and re- establishment of intercellular adhesion complexes of gel entrapped hepatocytes.*” - Cytotechnology, 32 (3), 219-228 (2000).
- 33) L. Di Marzo, A. Miccheli, P. Sapienza, M. Tedesco, A. Mingoli, **G. Capuani**, T. Aureli, A. Giuliani, F. Conti, A. Cavallaro – “*³¹-Phosphorus magnetic resonance spectroscopy to evaluate medical therapy efficacy in peripheral arterial disease. A pilot study.*” - Panminerva Med., 41(4):283- 90 (1999).
- 34) A. Miccheli, **G. Capuani**, A. Tomassini, M. E. Di Cocco, C. Manetti, L. Conti Devirgiliis, L. Falasca, M. Manganaro, F. Conti - “*NMR evaluation of viability and metabolism of hepatocytes entrapped at high cell density in alginate gel beads in a bioreactor*” – Intl. J. Artif. Organs, 21, 656 (1998).
- 35) T. Aureli, M.E. Di Cocco, C. Puccetti, R. Ricciolini, **G. Capuani**, M. Calvani, F. Conti - “*Cerebral metabolic compartmentation as revealed by ¹³C NMR analysis of [1-¹³C]glucose metabolism*” - In: Neurochemistry (A.W. Teelken and J. Korf eds.), Plenum Press (1997).
- 36) T. Aureli, M.E. Di Cocco, R. Ricciolini, **G. Capuani**, M. Calvani and F. Conti. - “*Cerebral Metabolic compartmentation as revealed by nuclear magnetic resonance analysis of [1-¹³C]glucose metabolism*” - J. Neurochem., 66 (suppl. 2), S64 D (1996).
- 37) **G. Capuani**, A. Miccheli, F. Conti. – “*Principal Component Analysis as applied to NMR data*” - Quart. Magn. Reson. Biol. Med., 2(1), 19-33 (1995).
- 38) M.E. Di Cocco, **G. Capuani**, A. Miccheli - “*Nuclear Magnetic Resonance: in vivo determinations of pH, cations and metabolites*” - Analusis, 23(2), M9-M11 (1995).
- 39) T. Aureli, **G. Capuani**, M.E. Di Cocco, R. Ricciolini, O. Ghirardi, M.T. Ramacci, A. Miccheli - “*Changes in brain lipid composition during aging: Effect of long-term acetyl-L-carnitine treatment*” - Quart. Magn. Reson. Biol. Med., 1 (1), 47-52 (1994).
- 40) **G. Capuani**, T. Aureli, A. Miccheli, N. Corsico, A. Nardone, E. Arrigoni Martelli and F. Conti - “*An investigation of experimental arteriopathy in rat hind limb by in vivo ³¹P NMR spectroscopy: effect of propionyl-L-carnitine*” – British J. Pharmacol., vol 111 (suppl.), 229P (1994).
- 41) A. Miccheli, F. Scopinaro, C. Manni, A.P. Iurilli, F. Ponzio, R. Tavolaro, **G. Capuani**, T. Aureli, F. Conti - “*¹H, ³¹P MRS and ^{99m}Tc-MIBI emission computed tomography in*

Duchenne's muscular dystrophy" – J. Magn. Reson. Biol. Med., 1 (1), 13-21 (1993).

- 42) T. Aureli, **G. Capuani**, M.E. Di Cocco, A. Miccheli, N. Corsico, A. Nardone, E. Arrigoni Martelli, F. Conti - "*Peripheral arteriopathy in the rat: effect of levocarnitine propyl treatment studied by ³¹P NMR in vitro and in vivo*" – Bull. Magn. Reson., 15 (3), 169-171 (1993).
- 43) A. Giuliani, **G. Capuani**, T. Aureli, A. Miccheli, C. Manetti, F. Conti - "*Multivariate data analysis as applied to NMR results: a window on biological complexity*" - J. Magn. Reson. Biol. Med., 1 (1) 5-12 (1993).
- 44) F. Scopinaro, C. Manni, F.S. Fasano, A. Miccheli, **G. Capuani**, I. Genuini, A. Centi Colella - "*^{99m}Tc-MIBI SPECT in Duchenne's muscular dystrophy (D.M.D.)*" - Nuclear Medicine, H.A.E. Schmidt & R. Hofer eds., pp. 622-625, Schattauer, (Austria, 1992).
- 45) **G. Capuani**, T. Aureli, A. Miccheli, M.E. Di Cocco, M.T. Ramacci and M. Delfini - "*Resolution improvement of ³¹P NMR spectra of phospholipid mixtures from brain extracts*" - Lipids, 27 (5), 389-391 (1992).
- 46) T. Aureli, **G. Capuani**, A. Miccheli, O. Ghirardi, M.T. Ramacci, F. Conti - "*Changes in brain membrane phospholipid composition during aging: effect of acetyl-L-carnitine*" - J. Neurochem., 57 (suppl.), S115 (1991).
- 47) A. Giuliani, **G. Capuani**, A. Miccheli, T. Aureli, M.T. Ramacci and F. Conti - "*Multivariate data analysis in biochemistry: a new integrative approach to metabolic control in brain aging*" - Cell. Mol. Biol., 37 (6), 631-638 (1991).
- 48) A. Giuliani, **G. Capuani**, A. Miccheli and F. Conti - "*Multivariate data analysis as applied to NMR results: a tool to investigate the behavior of complex biological systems*" - Ecological Physical Chemistry, (C.Rossi and E. Tiezzi eds.), Elsevier Science Publishers, (Olanda, 1991).
- 49) G. Tanfani, M. Gallucci, G. Fabbrini, M. Feliciani, A. Miccheli, S. Sposato, **G. Capuani**, F. Conti, A. Agnoli - "*Considerazioni preliminari sull'utilizzazione della Risonanza Magnetica Nucleare nella diagnostica delle patologie del S.N.C.*" - Radiologia, Vol. 3, 808-814, (1984).
- 50) A. Miccheli, **G. Capuani**, M. Gallucci, G. Fabbrini, L. Settembrini, F. Conti - "*Valutazione dei tempi di rilassamento di soluzioni e fluidi biologici a campo magnetico di diversa intensità*" - Radiologia, Vol. 3, 802-807 (1984).