

Full papers:

- A. Atlante, L. de Bari, D. Valenti, R. Pizzuto, **G. Paventi**, S. Passarella. (2005) "Transport and metabolism of D-lactate in Jerusalem artichoke mitochondria" *Biochimica et Biophysica Acta – Bioenergetics* 1708(1): 13-22. (IF 3.99)
- L. de Bari, D. Valenti, R. Pizzuto, **G. Paventi**, A. Atlante, S. Passarella. (2005) "Jerusalem artichoke mitochondria can export reducing equivalents in the form of malate as a result of D-lactate uptake and metabolism" *Biochemical and Biophysical Research Communications* 335:1224-1230 (IF 3.58)
- **G. Paventi**, D. Pastore, A. Bobba, S. Di Pede, S. Passarella. (2006) "Plant uncoupling protein in mitochondria from Aged-Dehydrated slices of Jerusalem artichoke tubers becomes sensitive to superoxide and to hydrogen peroxide without increase in protein level" *Biochimie* 88(2):179-188 (IF 4.08)
- **G. Paventi**, R. Pizzuto, G. Chieppa, S. Passarella. (2007) "L-lactate metabolism in potato tuber mitochondria" *FEBS Journal* 274(6): 1459-1469 (IF 5.54)
- R. Pizzuto, **G. Paventi**, G. Chieppa, A. Atlante, S. Passarella (2007) "Is there a pyruvate kinase in pig liver mitochondria?" *The Italian Journal of Biochemistry* 56(4): 270-274 (SJR 0.27)
- **G. Paventi**, R. Pizzuto, G. Chieppa, S. Passarella (2007) "Mitochondria isolated from local market potato tubers contain L-lactate dehydrogenase in an inactive state" *The Italian Journal of Biochemistry* 56(4): 289-293 (SJR 0.27)
- S. Passarella, L. de Bari, D. Valenti, R. Pizzuto, **G. Paventi**, A. Atlante (2008) "Mitochondrial and L-lactate metabolism" – Review *FEBS Lett* 582: 3569-3576 (IF 4.12)
- R. Pizzuto, **G. Paventi**, A. Atlante, S. Passarella (2010) "Pyruvate kinase in pig liver mitochondria". *Archives of Biochemistry and Biophysics* 495: 42-48 (IF 4.01)
- N. Iaffaldano, M.P. Rosato, **G. Paventi**, R. Pizzuto, M. Gambacorta, A. Manchisi, S. Passarella (2010) "The irradiation of rabbit sperm cells with He-Ne laser prevents their in vitro liquid storage dependent damage" *Animal Reproduction Science* 119: 123-129 (IF 2.14)
- A. Atlante, A. Bobba, **G. Paventi**, R. Pizzuto, S. Passarella (2010) "Genistein and daidzein prevent low potassium-dependent apoptosis of cerebellar granule cells" *Biochemical Pharmacology* 79(5): 758-767 (IF 5.86)
- R. Pizzuto, **G. Paventi**, C. Porcile, D. Sarnataro, A. Daniele, S. Passarella (2012) "L-lactate metabolism in HEP G2 cell mitochondria due to the L-lactate dehydrogenase determines the occurrence of the L-lactate/pyruvate shuttle and the appearance of oxaloacetate, malate and citrate outside mitochondria" *Biochimica et Biophysica Acta – Bioenergetics* 1817:1679-1690 (IF 3.99)

- N. Iaffaldano, **G. Paventi**, R. Pizzuto, S. Passarella, S. Cerolini, L. Zaniboni, M. Marzoni, A. Castillo, M.P. Rosato (2013) “The post-thaw irradiation of avian spermatozoa with He-Ne laser differently affects chicken, pheasant and turkey sperm quality. *Animal Reproduction Science* 142(3-4):168-172 (IF 2.14)
- S. Passarella, **G. Paventi**, R. Pizzuto (2014) “The mitochondrial L-lactate dehydrogenase affair”. *Frontiers in Neuroscience* 8 (DEC): Art. No. 407 (IF 4.68)
- **G. Paventi**, C. Lessard, J.L. Bailey, S. Passarella (2015) “In boar sperm capacitation L-lactate and succinate, but not pyruvate and citrate, contribute to the mitochondrial membrane potential increase as monitored via safranin O fluorescence” *Biochemical and Biophysical Research Communications* 462(3): 257-262 (IF 3.58)
- N. Dobrin, S. Zamfirescu, A.H. Anghel, I. Topoleanu, N. Iaffaldano, **G. Paventi**, D. Coprean (2015) “Study on the effects of exposure to different doses of energy generated by a He-Ne laser on the quality of frozen-thawed semen of ram” *Romanian Biotechnological Letters* 20 (3): 10381-10387 (IF 0.76)
- N. Iaffaldano, **G. Paventi**, R. Pizzuto, M. Di Iorio, J.L. Bailey, A. Manchisi, S. Passarella (2016) “Helium-neon laser irradiation of cryopreserved ram sperm enhances cytochrome c oxidase activity and ATP levels improving semen quality” *Theriogenology* 86 (3): 778-784 (IF 2.74)
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- N. Iaffaldano, M. Di Iorio, L. Mannina, **G. Paventi**, M.P. Rosato, S. Cerolini, A.P. Sobolev (2018) “Age-dependent changes in metabolic profile of Turkey spermatozoa as assessed by NMR analysis” *PLOS One* 13(3) e0194219 (IF 3.24)
- F. Tubaro, R. Pizzuto, G. Raimo, **G. Paventi** (2019) “A Novel Fluorimetric Method to Evaluate Red Wine Antioxidant Activity” *Periodica Polytechnica Chemical Engineering* 63(1), pp. 57-64 (IF 1.57)
- G. Rotundo, **G. Paventi**, A. Barberio, A. De Cristofaro, I. Notardonato, M. V. Russo, G. S. Germinara (2019) Biological activity of *Dittrichia viscosa* (L.) Greuter extracts against adult *Sitophilus granarius* (L.) (Coleoptera, Curculionidae) and identification of active compounds” *Scientific Reports* 9, Article number: 6429 (IF 4.38)
- P. Ambrosino, M.V. Soldovieri, E. Di Zazzo, **G. Paventi**, F.A. Iannotti, I. Mosca, F. Miceli, C. Franco, L.M.T. Canzoniero, M. Taglialatela (2019) “Activation of Kv7 potassium channels inhibits intracellular Ca²⁺ increases triggered by TRPV1-mediated pain-inducing stimuli in F11 immortalized sensory neurons” *International Journal of Molecular Sciences* 20(18) 4322 (IF 5.92)
- **G. Paventi**, L. de Acutis, A. De Cristofaro, G.S. Germinara, G. Rotundo (2020) “Biological activity of *Humulus lupulus* (L.) essential oil and its main components against *Sitophilus granarius* (L.)” *Biomolecules* 10, 1108; doi:10.3390/biom10081108 (IF 4.88)

- **G. Paventi**, G. Rotundo, M. Pistillo, I. D'Isita, G.S. Germinara (2021) "Bioactivity of wild hop extracts against the granary weevil, *Sitophilus granarius* (L.)" *Insects* 2021, 12, 564. <https://doi.org/10.3390/insects12060564> (IF 2.77)
- A. Minò, G. Cinelli, **G. Paventi**, G. Testa, F. Passaro, F. Lopez, L. Ambrosone (2022) "Poly(Lactic-co-glycolic) acid and phospholipids hybrid nanoparticles for regeneration of biological tissue" *Chemengineering* 6, 10. <https://doi.org/10.3390/chemengineering6010010>
- **G. Paventi**, M. V. Soldovieri, I. Servettini, V. Barrese, F. Miceli, M. J. Sisalli, P. Ambrosino, I. Mosca, I. Vinciguerra, L. Testai, A. Scorziello, G. Raimo, V. Calderone, S. Passarella, M. Tagliatela (2022) "Kv7.4 channels regulate potassium permeability in neuronal mitochondria" *Biochemical Pharmacology* 197, 114931. (IF 5.86) <https://doi.org/10.1016/j.bcp.2022.114931>
- **G. Paventi**, M. Di Iorio, G. Rusco, A.P. Sobolev, S. Cerolini, E. Antenucci, M. Spano, L. Mannina, N. Iaffaldano (2022) "The effect of semen cryopreservation process on metabolomic profiles of turkey sperm as assessed by NMR analysis" *Biology* 11, 642 <https://doi.org/10.3390/biology11050642> (IF 5.08)

Posters, abstracts and proceedings:

- "Contact toxicity of phthalate esters against *Sitophilus granarius* (L.) adults" Rotundo G, **Paventi G**, De Cristofaro A, Germinara GS. XXVII Congresso Nazionale Italiano di Entomologia, Palermo, 12-16 June 2023
- "Inhalation toxicity of *Eriobotrya japonica* (Thunb.) Lindl. seeds flour against *Sitophilus granarius* (L.) adults" Rotundo G, **Paventi G**, D'Isita I, Lo Muzio F, Pistillo OF, De Cristofaro A, Marconi E, Germinara GS. XXVII Congresso Nazionale Italiano di Entomologia, Palermo, 12-16 June 2023
- "The occurrence of Kv7.4 channels in neuronal mitochondria" **Paventi G**, Soldovieri MV, Servettini I, Barrese V, Miceli F, Ambrosino P, Sisalli MJ, Testai L, Calderone V, Raimo G, Scorziello A, Passarella S, Tagliatela M. 19th National Congress of the Italian Society of Neuroscience, (virtuale) 9-11 September 2021
- "Attività biologica di estratti da semi di *Eriobotrya japonica* (Thunb.) Lindl. verso adulti di *Sitophilus granarius* (L.)" Rotundo G, **Paventi G**, De Cristofaro A, Germinara GS. Atti XXVI Congresso Nazionale Italiano di Entomologia, Torino 7-11 June 2021.
- "Evidence for Kv7.4 channels in neuronal mitochondria" **Paventi G**, Raimo G, Barrese V, Soldovieri MV, Tagliatela M, International Kv7 Channels Symposium, Napoli 12-14 September 2019.
- "Repellent activity of three *Humulus lupulus* (L.) essential oil terpenes against *Sitophilus granarius* (L.)" De Acutis L, De Cristofaro A, **Paventi G**, Germinara GS, Rotundo G, XI European Congress of Entomology, Napoli 2-6 July 2018.
- "Phenolic fraction quantification in spontaneous hop (*Humulus lupulus* L.) in central Italy" De Acutis L, Ghiselli L, De Cristofaro A, **Paventi G**, Benedettelli S, Tallarico R, Germinara GS, Rotundo G, XII Convegno nazionale Biodiversità, Teramo 13-15 June 2018.

- “The occurrence of a Kv7.4 potassium channel in neuronal mitochondria” **Paventi G**, Raimo G, Soldovieri MV, Vinciguerra I, Medoro A, Passarella S, Taglialatela M, 59th SIB Congress, Caserta 20-22 September 2017.
- “Valutazione dei parametri nutrizionali di adulti di *Sitophilus granarius* (L.) (Coleoptera, Curculionidae), mediante ‘flour disk bioassay’, in presenza di estratti di *Dittrichia viscosa* (L.) Greuter”, Rotundo G, **Paventi G**, Barberio A, De Cristofaro A, Germinara GS, XI Convegno AISTEC, Roma 22-24 November 2017.
- “Molecular, biochemical and pharmacological evidence for Kv7.4 channels expression in neuronal mitochondria” Medoro A, Vinciguerra I, Soldovieri MV, **Paventi G**, Ambrosino P, Calderone V, Passarella S, and Taglialatela M., abstract P1-24. Channelopathy Meeting, Parigi, 15-17 June 2016
- “Biological activity of hexane extract fractions of *Dittrichia viscosa* (L.) Greuter against *Sitophilus granarius* (L.)” Rotundo G., **Paventi G.**, Barberio A., De Cristofaro A., Notardonato I., Russo M.V., Germinara G.S. Atti XXV Congresso Nazionale Italiano di Entomologia, Padova, 20-24 June 2016
- “Biochemical, morphological, and pharmacological evidence for Kv7.4 channels expression in neuronal mitochondria” I. Vinciguerra, M. V. Soldovieri, **G. Paventi**, P. Ambrosino, V. Calderone, S. Passarella, and M. Taglialatela. abstract P1/117. 37° Congresso della Società Italiana di Farmacologia, Napoli, 27-30 October 2015
- “Biochemical, morphological, and pharmacological evidence for Kv7.4 channels expression in neuronal mitochondria” L. Manocchio, I. Vinciguerra, M.V. Soldovieri, **G. Paventi**, P. Ambrosino, V. Calderone, S. Passarella, and M. Taglialatela, abstract P 30/09. XVI National Congress of the Italian Society of Neuroscience, Cagliari, 8-11 October 2015
- “Attività insetticida di estratti di *Scrophularia canina* L. verso adulti di *Sitophilus granarius* (L.)” Rotundo G, **Paventi G**, Germinara GS (2014). *Tecnica Molitoria*, 65(8): 596-603
- “Efficacia di aldeidi e alcoli alifatici per la riduzione dell’attrattività dei cereali verso *Sitophilus granarius*” Germinara GS, **Paventi G**, Rotundo G (2014) *Tecnica Molitoria*, 65(10):782-788
- “Effetto della dose di energia nell’irraggiamento con He-Ne laser sulla qualità e carica energetica di spermatozoi crioconservati di ariete” Iaffaldano N, Di Iorio M, **Paventi G**, Pizzuto R, Passarella S, Manchisi A (2014) *Large Animal Review* 4(S1): 186
- “Attività anticolinesterasica di estratti di *Dittrichia viscosa* (L.) Greuter” **Paventi G**, Germinara GS, Rotundo S. XXIV CNIE Orosei (NU) 9-14 June 2014.
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- “He-Ne laser irradiation effect on the quality of cryopreserved semen: a pilot bioenergetics study with ram semen” **Paventi G**, Iaffaldano N, Bailey JL, Passarella S, Urdes DL. ID:

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- “Tossicità mitocondriale su modello animale di Zidovudina e Darunavir: azione sull’adelnilito chinasi” **G. Paventi**, C. Ucciferri, R. Pizzuto, K. Falasca, E. Pizzigallo, S. Passarella, J. Vecchiet. XI Congresso Nazionale SIMIT Chieti-Pescara 17-20 October 2012
- “Tossicità mitocondriale su modello animale di Etravirina e Darunavir: effetto sul potenziale mitocondriale” C. Ucciferri, **G. Paventi**, R. Pizzuto, K. Falasca, E. Pizzigallo, J. Vecchiet, S. Passarella. XI Congresso Nazionale SIMIT Chieti-Pescara 17-20 October 2012
- “Attività insetticida di estratti di *Scrophularia canina* L. verso adulti di *Sitophilus granarius* (L.) (Coleoptera, Curculionidae)” G. Rotundo, **G. Paventi**, G.S. Germinara. IX simposio La difesa antiparassitaria nelle industrie alimentari e la protezione degli alimenti, Piacenza 19-21 September 2012.
- “Inibizione dell’acetilcolinesterasi di *Sitophilus granarius* (L.) da estratti di *Scrophularia canina* L.” **G. Paventi**, G.S. Germinara, S. Passarella, G. Rotundo. IX simposio La difesa antiparassitaria nelle industrie alimentari e la protezione degli alimenti, Piacenza 19-21 September 2012.
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- “Capacitation increases mitochondrial membrane potential in boar sperm” **G. Paventi**, C. Lessard, G. Fasolino, S. Passarella, J.L. Bailey. 35th Annual Meeting American Society of Andrology, Houston (TX) USA 10-13 April 2010
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