

Scientific production- COMPLETE LIST OF PUBLICATIONS in peer-reviewed ISI-WOS indexed journals

2019

- [75] S. Barbieri, G. Babini, J. Morini, W. Friedland, M. Buonanno, V. Griji, D. Brenner, A. Ottolenghi, G. Baiocco.
Predicting DNA damage foci and their experimental readout with 2D microscopy: a unified approach applied to photon and neutron exposures
Scientific Reports, *accepted for publication*, **WOS: TBA**
- [74] M. Bruno, M. D'Agostino, M. Managlia, L. Morelli, G. Baiocco, F. Gulminelli, C. Frosin, S. Barlini, A. Buccola, A. Camaiani, G. Casini, M. Cicerchia, M. Cinausero, M. Degerlier, D. Fabris, F. Gramegna, G. Mantovani, T. Marchi, P. Ottanelli, G. Pasquali, S. Piantelli, S. Valdré
Four α -particle decay of the excited $^{160}\text{O}^$ quasi-projectile in the $^{16}\text{O} + ^{12}\text{C}$ reaction at 130 MeV*
Journal of Physics G, *accepted for publication*, **WOS: TBA**
- [73] A. Bertolet, A. Baratto-Roldán, S. Barbieri, G. Baiocco, A. Carabe, MA Cortés-Giraldo.
Dose-averaged LET calculation for proton track segments using microdosimetric Monte Carlo simulations.
Med Phys., doi: 10.1002/mp.13643. (Epub ahead of print), **WOS: TBA**
- [72] G. Baiocco, G. Babini, S. Barbieri, J. Morini, W. Friedland, C. Villagrasa, H. Rabus, A. Ottolenghi.
What roles for track structure and microdosimetry in the era of -omics and systems biology?
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- [71] G. Baiocco, L. Bocchini, M. Giraudo, S. Barbieri, L. Narici, C. Lobascio, A. Ottolenghi.
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- [70] H. Rabus, S. Barbieri, G. Baiocco, A. Ottolenghi, U. Giesen
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Radiat Prot Dosimetry 183(1-2):126-130, **WOS: TBA**
- [69] J. Morini, G. Babini, S. Barbieri, G. Baiocco, M. Ciocca, G.B. Ivaldi, M. Liotta, S. Molinelli, P. Tabarelli de Fatis, A. Ottolenghi.
A comparison between x-rays and carbon ions irradiation in human neural stem cells
Radiat Prot Dosimetry 183(1-2):102-106, **WOS: TBA**
- [68] J. Schuemann, A.L. McNamara, J. W. Warmenhoven, N. T. Henthorn, K. Kirkby, M. J. Merchant, S. Ingram, H. Paganetti, K.D. Held, J. Ramos-Mendez, B. Faddegon, J. Perl, D. T. Goodhead, I. Plante, H. Rabus, H. Nettelbeck, W. Friedland, P. Kundrat, A. Ottolenghi, G. Baiocco, S. Barbieri, M. Dingfelder, S. Incerti, C. Villagrasa, M. Bueno, M. A. Bernal, S. Guatelli, D. Sakata, J. M. C. Brown, Z. Francis, I. Kyriakou, N. Lampe, F. Ballarini, M. P. Carante, M. Davidkova, V. Štěpan, X. Jia, F. A. Cucinotta, R. Schulte, R. D. Stewart, D. J. Carlson, S. Galer, Z. Kuncic, S. Lacombe, J. Milligan, S. H. Cho, G. Sawakuchi, T. Inaniwa, T. Sato, W. Li, M. Durante, K. Prise and S. J. McMahon.
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- [67] A. Ottolenghi, K. Trott, G. Baiocco, V. Smyth.
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- [66] S. Barbieri, G. Babini, G. Baiocco, J. Morini, W. Friedland, M. Buonanno, D.J. Brenner, A. Ottolenghi.
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- [65] G. Babini, B. Tanno, I. De Stefano, P. Giardullo, E. Pasquali, G. Baiocco, A. Ottolenghi, M. Mancuso.
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- [64] L. Morelli, M. Bruno, M. D'Agostino, G. Baiocco, F. Gulminelli, S. Barlini, A. Buccola, A. Camaiani, G. Casini, C. Ciampi, C. Frosin, N. Gelli, A. Olmi, P. Ottanelli, G. Pasquali, S. Piantelli, S. Valdré, M. Cicerchia, M. Cinausero, F. Gramegna, G. Mantovani, T. Marchi, M. Degerlier, D. Fabris, and V. L. Kravchuk
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[61] W. Friedland, E. Schmitt, P. Kunderát, G. Baiocco, A. Ottolenghi
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**1st ESTRO Physics Workshop, Topical session: MICRO- AND NANODOSIMETRY FOR RADIOTHERAPY
November 2017, Glasgow, UK**
- [47] G. Baiocco, S. Barbieri, A. Ottolenghi, L. Bocchini, M. Giraudo, C. Lobascio, I. Locantore, E. Brussolo, D. Giacosa,
L. Meucci, S. Steffenino, A. Ballario, B. Barresi, R. Barresi, M. Benassai, L. Ravagnolo, L. Narici, A. Rizzo, E. Carrubba,
F. Carubia, G. Neri, M. Crisconio, S. Piccirillo, G. Valentini, M. Giacci, S. Barbero
The PERSEO Project: PErsonal Radiation Shielding for intErplanetary missiOns
Workshops on Radiation Monitoring for the International Space Station, September 2017, Torino, Italy
- [46] G. Baiocco, S. Barbieri, G. Babini, J. Morini, D. Alloni, E. Schmitt, P. Kunderát, W. Friedland, M. Puchalska,
U. Giesen, R. Nolte, A. Ottolenghi
At the Physics-Biology Interface: the Neutron Affair
Neutron and Ion Dosimetry Symposium NEUDOS13, May 2017, Kraków, Poland
- [45] G. Baiocco, M. Vuolo, L. Bocchini, M. Giraudo, C. Lobascio, T. Gheysens, A. Ottolenghi
Radiation protection for astronauts in case of solar particle events
EURADOS Annual Meeting - AM2017, February 2017, Karlsruhe, Germany

2016

- [44] G. Baiocco
(invited) PERSEO - PErsonal Radiation Shielding for intErplanetary missiOns
ISS Program - Increment 51/52 Science Symposium, December 2016, JSC Houston, TX , US
- [43] G. Baiocco
(invited) PERSEO - PErsonal Radiation Shielding for intErplanetary missiOns
**Incontro di familiarizzazione con l'astronauta ESA Paolo Nespoli, ASI - Agenzia Spaziale Italiana,
November 2016, Rome, Italy**
- [42] M. Siragusa, G. Baiocco, P. Fredericia, T. Groesser, M. Jensen, A. Ottolenghi
COOLER: a tool to calculate local energy deposition at the sub-cellular level
2016 RRS Annual Meeting , October 2016, Waikoloa, Hawaii, US
- [41] W. Friedland, E. Schmitt, P. Kunderát, A. Ottolenghi, G. Baiocco, S. Barbieri, D. Alloni, M. Dingfelder
Modelling DNA damage at light ions' track ends

2016 RRS Annual Meeting , October 2016, Waikoloa, Hawaii, US

[40] W. Friedland, P. Kundrát, E. Schmitt, A. Ottolenghi, G. Baiocco, M. Dingfelder, B. Brzozowska, A. Wojcik
Late effects due to low doses of different radiation quality – what can we learn from track structure calculations?
2016 RRS Annual Meeting , October 2016, Waikoloa, Hawaii, US

[39] G. Baiocco, S. Barbieri, G. Babini, J. Morini, D. Alloni, W. Friedland, P. Kundrát, E. Schmitt, M. Puchalska, L. Sihver, A. Ottolenghi
(invited) An ab-initio approach to trace back the physical origin of neutron biological effectiveness as a function of energy

Radiation Protection Week, September 2016, Oxford, UK

[38] G. Baiocco
(invited) I neutroni secondari in terapia con particelle cariche e la loro efficacia biologica
Corso Residenziale IEO: "Aggiornamenti in FSA", June 2016, Milan, Italy

[37] G. Baiocco, V. Smyth, K. Trott, A. Ottolenghi
(invited) The ANDANTE Project: a multidisciplinary evaluation of the risk from neutrons relative to photons
Panel discussion: Challenges in Low Dose Radiation research
14th Congress of the International Radiation Protection Association - IRPA14, May 2016, Cape Town, SA

[36] G. Baiocco, S. Barbieri, G. Babini, J. Morini, D. Alloni, W. Friedland, P. Kundrát, E. Schmitt, M. Puchalska, L. Sihver, A. Ottolenghi
Neutron induced DNA damage using transport and track structure calculations
EURADOS Annual Meeting - AM2016, February 2016, Milan, Italy

[35] M. Siragusa, G. Baiocco, P. Fredericia, T. Groesser, M. Jensen, A. Ottolenghi
An analytical approach to calculate local energy deposition at the sub-cellular level
EURADOS Annual Meeting - AM2016, February 2016, Milan, Italy

2015

[34] A. Ottolenghi, D. Alloni, G. Babini, G. Baiocco, L. Mariotti, J. Morini, V. Smyth, W. Friedland, P. Kundrát, E. Schmitt, S. Tapio, A. Sriharshan, Z. Barjaktarovic, M. Aichler, M. Tschöp.
DoReMi research on Mitochondria - The INITIUM project (Track structures and initial events: an integrated approach to assess the issue of radiation quality dependence)
DoReMi workshop "Mitochondria and Radiation", December 2015, Munich, Germany

[33] W. Friedland, P. Kundrát, E. Schmitt, G. Baiocco, S. Barbieri, D. Alloni, A. Ottolenghi
TREND - TRacking damage at ion track ENDS - Task 5.6 ad-hoc extension
Final DoReMi meeting, December 2015, Budapest, Hungary

[32] G. Baiocco, S. Barbieri, G. Babini, J. Morini, D. Alloni, W. Friedland, P. Kundrát, E. Schmitt, M. Puchalska, L. Sihver, A. Ottolenghi
Neutron biological effectiveness as a function of energy with transport and track structure calculations
Final DoReMi meeting, December 2015, Budapest, Hungary

[31] A. Ottolenghi, D. Alloni, G. Babini, G. Baiocco, J. Morini, D. Scannicchio, V. Smyth
Research on radiation quality and hadron therapy: where are we? What is to be done?
Technical Meeting (TM), Radiobiology of Charged Particle Therapy (RBPT) IAEA Headquarters, VIC, November 2015, Vienna, Austria

[30] A. Ottolenghi, G. Baiocco, V. Smyth, K. Trott, K. Manda, N. Hosper, R. Schulte, U. Schneider, L. Walsh, et al.
The ANDANTE Project (Multidisciplinary evaluation of the cancer risk from neutrons relative to photons using stem cells and the induction of second malignant Neoplasms following paediatric radiation therapy).
MELODI 7th Workshop, Next Generation Radiation Protection Research, Munich, 9 – 11 November 2015

[29] A. Ottolenghi, G. Baiocco, M. Siragusa, D. Alloni, G. Babini, S. Barbieri, J. Morini
Proposal for an organisation of the task on "dosimetry", including track structure and links with radiobiology
Crosscutting support to improved knowledge on tritium management in Fission&Fusion facilities. International Workshop: Bruxelles, 8-9 October 2015.

[28] M. Vuolo, G. Baiocco, M. Giraudo, C. Lobascio, A. Ottolenghi.
The PERSEO project ("Personal Radiation Shielding for interplanetary missions"): status and perspectives.
20th Humans in Space Symposium (HIS), Prague, Czech Republic, June 29 - July 3, 2015.

[27] G. Baiocco
PERSEO: Personal Radiation Shielding for interplanetary missions - Executive Summary of the Project

ARIADNA Day, July 2015, ESA-ESTEC, Noordwijk, Holland[26] G. Baiocco*A comprehensive modeling approach to shed light on the physical origin of neutron biological effectiveness***15th International Congress of Radiation Research (ICRR 2015), May 2015, Kyoto, Japan**[25] A. Ottolenghi, G. Baiocco, O. Nuta, K. Trott, V. Smyth*The EUTEMPE course on Radiation Biology for Medical Physicists***4th EUTEMPE-RX meeting, March 2015, Leuven, Belgium**[24] G. Babini, J. Morini, G. Baiocco, L. Mariotti, A. Ottolenghi*UniPv Contribution to WP2.3 - WP2.3 Interactions of transformed and healthy cells: Pro- and anti-carcinogenic effects***EpiRadBio Final contractors meeting, March 2015, Regensburg, Germany**[23] G. Babini, D. Alloni, G. Baiocco, J. Morini, A. Ottolenghi*How can we translate the in vitro results into the in vivo scenario?***Modelling bystander effects for Biomedical and Environmental Research, April 2015, Stirling, Scotland**[22] A. Ottolenghi, D. Alloni, G. Babini, G. Baiocco, J. Morini, D. Scannicchio, V. Smyth*Research on radiation quality and hadrontherapy: Where are we? What is to be done?***Seminar on research activities in hadrontherapy, April 2015, CNAO, Pavia, Italy**[21] G. Babini, J. Morini, G. Baiocco, A. Ottolenghi*A Radiation-induced inflammatory response in in vitro fibroblasts is overshadowed by their response to culturing conditions***15th International Congress of Radiation Research (ICRR 2015), May 2015, Kyoto, Japan****2014**[20] G. Baiocco*Characterization of the physical origin of neutron biological effectiveness***XVI Congress of the Italian Society on Radiation Research (SIRR), November 2014, Pavia, Italy**[19] G. Baiocco*Tracing back the physical origin of neutron biological effectiveness***6th International MELODI Workshop, PRBB October 2014, Barcelona, Spain**

[18] J. Morini, G. Babini, G. Baiocco, L. Nacci, C. Maccario, M. Liotta, P. Tabarelli de Fatis, A. Minelli, M. Savio, A. Ottolenghi, C. Danesino

*Effetto dell'esposizione a raggi X sulla proliferazione e sul ciclo cellulare in cellule linfoblastoidi derivate da pazienti affetti da sindrome di Shwachman-Diamond***XVI Congress of the Italian Society on Radiation Research (SIRR), November 2014, Pavia, Italy**

[17] G. Babini, J. Morini, L. Mariotti, M. Siragusa, G. Baiocco, M. Liotta, P. Tabarelli de Fatis, A. Ottolenghi

*Studio in vitro della perturbazione indotta dalla radiazione sulla risposta infiammatoria***XVI Congress of the Italian Society on Radiation Research (SIRR), November 2014, Pavia, Italy**

[16] D. Alloni, G. Babini, G. Baiocco, L. Mariotti, J. Morini, A. Ottolenghi, W. Friedland, P. Kundrat, E. Schmitt, S. Tapio, A. Sriharshan, Z. Barjaktarovic, M. Aichler, M. Tschöp

*Track structures and initial events: an integrated approach to assess the issue of radiation quality dependence***DoReMi Periodical Meeting, July 2014, Munich, Germany**

[15] L. Mariotti, G. Babini, J. Morini, G. Baiocco, D. Alloni, A. Ottolenghi

*Non linear processes modulated by low doses of radiation exposure***40th COSPAR Scientific Assembly, August 2014, Moscow, Russia**

[14] A. Ottolenghi, D. Alloni, G. Babini, G. Baiocco, J. Morini, V. Smyth, K. Trott

*Early events, radiation quality and dose. The experience of the ANDANTE project***TC-IR Ionizing Radiation EURAMET Technical Committee, October 2014, Oslo, Norway**

[13] G. Babini, L. Mariotti, M. Siragusa, J. Morini, G. Baiocco, M. Liotta, P. Tabarelli de Fatis, A. Ottolenghi

*May the inflammatory response be considered as an example of non DNA-damage driven system?***41st Annual Meeting of the European Radiation Research Society ERR2014, September 2014, Rhodes, Greece**

- [12] J. Morini, G. Babini, L.G. Mariotti, G. Baiocco, L. Nacci, C. Maccario, M. Liotta, P. Tabarelli de Fatis, A. Minelli, M. Savio, A. Ottolenghi, C. Danesino
Effect of ionizing radiation exposure on proliferation and cell cycle distribution in cells derived from Shwachman-Diamond syndrome affected patients
41st Annual Meeting of the European Radiation Research Society ERR2014, September 2014, Rhodes, Greece

2013

- [11] G.Baiocco for the ANDANTE Collaboration
The ANDANTE Project: a multidisciplinary approach to neutron RBE
MICROS 2013 - 16th International Symposium on Microdosimetry, October 2013, Treviso, Italy
- [10] G.Baiocco
Reaction mechanism interplay in determining the biological effectiveness of neutrons as a function of energy
MICROS 2013 - 16th International Symposium on Microdosimetry, October 2013, Treviso, Italy
- [9] A. Ottolenghi, D. Alloni, G. Babini, G. Baiocco, L. Mariotti
From early events to biological damage: the radiation quality issue
Italian Physics Society Meeting, September 2013, Trieste, Italy
- [8] A Ottolenghi, K. Trott, G. Baiocco, V. Smyth
The ANDANTE project: a multidisciplinary approach to neutron RBE
Fifth International MELODI Workshop, October 2013, Brussels, Belgium

2012

- [7] G.Baiocco for the NUCL-EX Collaboration
Towards a Reconstruction of Thermal Properties of Light Nuclei from Fusion-Evaporation Reactions
Eurisol Topical Meeting, October 2012, Lisbon, Portugal
- [6] G.Baiocco for the NUCL-EX Collaboration
Towards a Reconstruction of Thermal Properties of Light Nuclei from Fusion-Evaporation Reactions
13th International Conference on Nuclear Reaction Mechanisms, June 2012, Varenna, Italy

2011

- [5] G.Baiocco for the NUCL-EX Collaboration
Statistical Decay of Light Hot Nuclei
International Workshop on Multifragmentation - IWM 2011, November 2011, Caen, France
- [4] G.Baiocco for the NUCL-EX Collaboration
Statistical Decay of Light Hot Nuclei
XCVII Congresso Nazionale Società Italiana di Fisica, September 2011, L'Aquila, Italy
- [3] G.Baiocco for the NUCL-EX Collaboration
Statistical Decay of Light Hot Nuclei
Gordon Research Conference - Intersections Between Structure and Reactions: Pushing the Frontiers of Nuclear Science, June 2011 New London, NH (USA)
- [2] G.Baiocco for the NUCL-EX Collaboration
Statistical Decay of Light Hot Nuclei
**Gordon Research Seminar
The Future of Structure and Reactions: Pushing the Frontiers of Nuclear Science
June 2011 New London, NH (USA)**

2010

- [1] G.Baiocco for the NUCL-EX Collaboration
Projectile Break-Up and Compound Nucleus Decay with light neutron-deficient beams provided by SPES
SPES 2010 International Workshop, November 2010, INFN Laboratori Nazionali di Legnaro (Italy)

DISSEMINATION ACTIVITIES/SEMINARS (also for the general public)

2018

[4] G. Baiocco

(invited, italian) *Radiazioni ed effetti sulla salute: dal DNA all'esplorazione spaziale*
Inaugurazione dell'Anno Accademico dell'Università di Istruzione Permanente, Recanati (MC), Italy

[3] G. Baiocco

(invited, italian) *L'astronauta veste acqua*
TEDxUniPv: "Eureka: join the future",
video available at: <https://www.youtube.com/watch?v=zzrKCebDla8&feature=youtu.be>

[2] G. Baiocco

(invited lecture, italian) *Dal DNA allo spazio: modelli biofisici multiscala, radiazione e salute*
Biomedical Physics Lombard Event 2018 (BIPLE), organizzato dai comitati locali di Pavia e Milano dell'Associazione Italiana Studenti di Fisica (AISF).

2017

[1] G. Baiocco

(invited, italian) *GUIDA alle RADIAZIONI per ESPLORATORI SPAZIALI*
Ciclo di Seminari - Le radiazioni nell'industria e nella ricerca di base e spaziale - Collegio Universitario S. Caterina da Siena, March 2017, Pavia, Italy