

Updated
January 3, 2022

Personal information

Name / Surname

Personal Email

Home page

Nationality

Date of birth

Gender

Pinto, Massimo

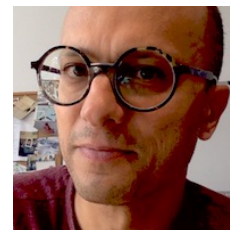
massimo.pinto@enea.it

<http://massimopinto.github.io>

Italian

July 9, 1973

Male



Current Position

since 2010

Research Scientist, Dosimetry Division, Italian National Institute of Ionizing Radiation Metrology

Research Interests

since 2010

Experimental and computational dosimetry of ionizing radiation, using free-air chambers, cavity chambers, graphite calorimeters, Monte Carlo codes of radiation transport PENELOPE and EGSnrc, the automation of laboratory instruments control using Visual C++ based programs, and automation of data analysis using Python and MySQL databases.

before 2010

DNA damage and repair in human cultured cells using pulsed-field gel-electrophoresis, bystander effects and adaptive responses using micronuclei and survival assays, flow cytometry and cell sorting, immunofluorescence.

Post-Doctoral Research Experience

2006–2010

Ionising Radiation and Biophysics and Biomedical Physics Unit, Istituto Superiore di Sanità, Rome, Italy. Project: “Background low dose rate ionizing radiation and its potential adaptive behaviour in the human lymphoblastoid line TK6”. Funded by Museo Storico della Fisica e Centro Studi e Ricerche Enrico Fermi. Principal Investigators: *Luigi Satta* and *Mauro Belli*

2003–2006

Radiation Research Division, UMDNJ, New Jersey Medical School, NJ, USA. Project: “Radiation-induced bystander effects and their adaptive behaviour in three dimensional in vitro human culture models labelled with radiopharmaceuticals”. Principal Investigator: *Roger W. Howell*

2002–2003

Biophysics Department, Faculty of Sciences, University of Naples Federico II, Naples, Italy. Project: “Murine cell survival after exposure to accelerated Lithium ions”. Principal Investigator: *Giancarlo Gialanella*

Education

1998 – 2002 Ph.D.

Cell and Molecular Biophysics, Gray Cancer Institute and Oncology Department, University College London, UK. Ph.D. in radiation-induced DNA damage and repair. Advisers: *Kevin M. Prise* (GCI), *Barry D. Michael* (GCI), and *John Hartley* (UCL). Thesis title: “Induction and rejoining of DNA double strand breaks in human cells after exposure to ionising radiation: an experimental and modelling approach”

1992 – 1998 B.Sc.

Faculty of Sciences, University of Naples Federico II, Naples, Italy. BSc in Physics, perfect score cum laude. Thesis Advisors: *Gianfranco Grossi* (Naples, Italy) and *Kevin Prise* (Gray Cancer Institute, UK). Thesis title: “Molecular alterations induced by sparsely ionising radiations: experimental and theoretical studies”

Languages

Mother tongue

Self-assessment
European level^(*)

Italian

English

French

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user
A2 Basic user	B1 Independent user	A2 Basic user	A2 Basic user	A2 Basic user

^(*) *Common European Framework of Reference* (CEF) level

International Appointments

since August 2021

Deputy Chair, Consultative Committee for Ionizing Radiation, Section I, Dosimetry

since 2020

Italian representative on EURAMET’s Technical Committee on Ionizing Radiation (TC-IR)

since 2013

Italian representative on the BIPM’s Consultative Committee for Ionizing Radiation, Section I, Dosimetry

National Appointments

since 2021

Contact person, for ENEA, in the ENEA-ACCREDIA Agreement (‘Convenzione’) on Inspections and Technical-Scientific Support

since 2020

Contact person for the calibration services for radiation protection and diagnostic radiology dosimetry

since 2018

Contact person for the *Inter-Laboratory Comparison (ILC)* services for radiation protection and diagnostic radiology dosimetry

since 2010

Contact person for the primary standards of air kerma for radiation protection and diagnostic radiology dosimetry, and standards of absorbed dose to water in low dose-rate brachtherapy and kV x-rays dosimetry

International expert missions

- 2017 National Institute of Standards, Cairo, Egypt, Training on CMC procedures related to ACAA priorities and peer-review of draft CMCs, Project: “Building the Capacity of the Egyptian National Institute of Standards (NIS) in the Field of Metrology”, February 26th - March 2nd, funded by the EU
- 2016 National Metrology Institute of Ethiopia (NMIE), Addis Ababa, Ethiopia, Assessment of the current measurement capabilities of the NMIE SSDL in the field of radiation dosimetry, Project: “Enhancing the National Quality Infrastructure in Metrology and Radiation Safety”, November 28th - December 2nd, funded by the IAEA
- National Institute of Standards, Cairo, Egypt, Feasibility Studies on calibration activities and training on calibration issues, Project: “Building the Capacity of the Egyptian National Institute of Standards (NIS) in the Field of Metrology”, 16-20 October, funded by the EU

Major scientific publications in peer-reviewed journals: Radiation Dosimetry

- 2021 Röttger A, Veres A, Sochor V, **Pinto, M**, Derlacinski M, Ioan M -R, Sabeta A, Bernat R, Adam-Guillermin C, Gracia Alves H, Glavič-Cindro D, Bell S, Wens B, Persson L, Živanović M, Nylund R, 2021, “Metrology for radiation protection: a new European network in the foundation phase”, *Adv. Geosci*, **57**, 1-7 doi:10.5194/adgeo-57-1-2021
- 2020 Czarnecki D, Zink K, Pimpinella M, Borbinha J, Teles P, **Pinto, M**, 2020, “Monte Carlo calculation of quality correction factors based on air kerma and absorbed dose to water in medium energy x-ray beams”, *Physics in Medicine and Biology*, **65** 245042, doi:10.1088/1361-6560/abc5c9
- Andreo P, Burns, D, Kapsch R-P, McEwen M, Vatrinsky S, Andersen C E, Ballester F, Borbinha J, Delaunay F, Francescon P, Hanlon M, Mirzakhanian L, Muir B, Ojala J, Oliver C, Pimpinella M, **Pinto M**, de Prez L, Seuntjens J, Sommier L, Teles P, Tikkanen J, Vijande J and Zink K, 2020, “Determination of consensus k_Q values for megavoltage photon beams for the update of IAEA TRS-398”, *Physics in Medicine and Biology*, **65** 095011, doi:10.1088/1361-6560/ab807b
- Tikkanen J S, Zink K, Pimpinella M, Teles P, Borbinha J, Ojala J, Siiskonen T, Gomà C, and **Pinto M**, 2020, “Calculated beam quality correction factors for ionization chambers in MV photon beams”, *Physics in Medicine and Biology*, **65** 075003, doi:10.1088/1361-6560/ab7107
- Santurio G V, **Pinto M**, and Andersen C E, “Evaluation of the ionization quenching effect in an organic plastic scintillator using kV x-rays and a modified Birks model with explicit account of secondary electrons”, *Radiation Measurements* **131** 106222
- 2019 Pimpinella M, Silvi L and **Pinto M**, 2019, “Calculation of k_Q factors for Farmer-type ionization chambers following the recent recommendations on new key dosimetry data”, *Physica Medica* **57** 221–30

- 2018 **Pinto M**, Andersen C E, Delaunay F, de Prez L A, Donois M, Duane S, Gomà C, Kosunen A, Ojala J, Pimpinella M, Rapp B, Siiskonen T, Sommier L, Teles P, Tikkanen J and Zink K, 2018, “The RTNORM contribution to the update of the k_{Q,Q_0} factors for the International Dosimetry Code of Practice TRS 398”, 115th Scientific Meeting of the JSMP vol **38**, pp 41—4
- 2017 D’Arienzo M, **Pinto, M**, Sandri, S and Zagarella, R, 2017, “Radiological and Nuclear Events: Challenges, Countermeasures and Future Perspectives, in: Cyber and Chemical, Biological, Radiological, Nuclear, Explosives Challenges”, edited by Martellini, M. and Malizia, A., Springer, 129–154
- 2016 L. Büermann, A.S. Guerra, M. Pimpinella, **M. Pinto**, J.A. de Pooter, L. de Prez, B. Jansen, M. Denozziere, and B. Rapp, 2016, “First international comparison of primary absorbed dose to water standards in the medium-energy X-ray range”. *Metrologia* **53** 1A.
- M. Pinto**, M. Pimpinella, M. Quini, M. D’Arienzo, I. Astefanoaei, S. Loreti, A.S. Guerra, 2016, “A graphite calorimeter for absolute measurements of absorbed dose to water: application in medium-energy x-ray filtered beams”, *Physics in Medicine and Biology* **61**(4)
- 2015 C. Kessler, **M. Pinto**, G. Cappadozzi, C. Silvestri, M. Bovi, and M.P. Toni, 2015, “Key comparison BIPM.RI(I)-K1 of the air-kerma standards of the ENEA-INMRI, Italy and the BIPM in ^{60}Co gamma radiation”, *Metrologia* **52** (1A)
- C Kessler, D T Burns, P Roger, M P Toni, **M Pinto**, M Bovi, G Cappadozzi, and C Silvestri, 2015, “Key comparison BIPM.RI(I)-K7 of the air-kerma standards of the ENEA-INMRI, Italy and the BIPM in mammography x-rays”, *Metrologia* **52** (1A)
- J Farah, A Trianni, O Ciraj-Bjelac, I Clairand, C De Angelis, S Delle Canne, L Hadid, C Huet, H Jarvinen, A Negri, L Novák, **M Pinto**, T Siiskonen, M J Waryn, and Ž Knežević, 2015, “Characterization of XR-RV3 GafChromic® films in standard laboratory and in clinical conditions and means to evaluate uncertainties and reduce errors”, *Medical Physics* **42**(7)
- 2014 D T Burns, C Kessler, **M Pinto**, G Cappadozzi, C Silvestri, and M P Toni, 2014, “Key comparison BIPM.RI(I)-K3 of the air-kerma standards of the ENEA, Italy and the BIPM in medium-energy x-rays”, *Metrologia* **51** Tech Suppl 06020
- H Palmans, H Rabus, A L Belchior, M U Bug, S Galer, U Giesen, G Gonon, G Gruel, G Hilgers, D Moro, H Nettelbeck, **M Pinto**, A Pola, S Pszona, G Schettino, P H G Sharpe, P Teles, C Villagrasa, and J J Wilkens, 2014, “Future development of biologically relevant dosimetry”, *The British Journal of Radiology* **88**(1045)
- 2012 M P Toni, M Pimpinella, **M Pinto**, M Quini, G Cappadozzi, C Silvestri, and O Bottauscio, 2012, “Direct determination of the absorbed dose to water from ^{125}I low dose-rate brachytherapy seeds using the new absorbed dose primary standard developed at ENEA-INMRI”, *Metrologia* **49**(5)
- 2011 D T Burns, C Kessler, P Roger, M P Toni, **M Pinto**, M Bovi, G Cappadozzi, and C Silvestri, 2011, “Key comparison BIPM.RI(I)-K2 of the air-kerma standards of the ENEA-INMRI, Italy and the BIPM in low-energy x-rays”, *Metrologia* **48** Tech Suppl 06010

Major technical reports: Radiation Dosimetry

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|------|---|
| 2021 | Pinto, M , Pimpinella M, Bovi M, D'Arienzo M, Alonzo M, De Coste V, Cappadozzi G, Silvestri C, and Toni M P 2021, "Report to the CCRI section I on the activity carried out at ENEA-INMRI on photon and charged-particles dosimetry in the period 2019- 2021", 26th CCRI(I) Committee Meeting, BIPM, France |
| 2019 | Pinto, M and Pimpinella, M, "16NRM03 RTNORM WP1 Report on ENEA-INMRI measurements of Farmer Chambers in water and in air (A1.2.2), activity 1.2.4 (cross calibrations), 1.2.6, and early contribution to Activity 1.2.8" |
| 2017 | Pinto, M , D'Arienzo M, Bovi M, Alonzo, M, Pimpinella M and Toni M P 2019, "Report to the CCRI section I on the activity carried out at ENEA-INMRI on photon and charged-particles dosimetry in the period 2017- 2019", 25th CCRI(I) Committee Meeting, BIPM, France

Pinto M , D'Arienzo M, Bovi M, Guerra A S, Pimpinella M and Toni M P 2017, "Report to the CCRI section I on the activity carried out at ENEA-INMRI on photon and charged-particles dosimetry in the period 2015- 2017", 24th CCRI(I) Committee Meeting, BIPM, France

McEwen M, Burns D T, D'Arienzo M, de Pooter J A, Pinto M and Rapp B 2017, "Report to CCRI(I) on the recommendations of ICRU Report 90", 23rd CCRI(I) Committee Meeting, BIPM, France |
| 2015 | Pinto M , D'Arienzo M, Bovi M, Guerra A S, Pimpinella M and Pia Toni M P, 2015, "Report to the CCRI section I on the activity carried out at ENEA-INMRI on photon and charged-particles dosimetry in the period 2013- 2015", 22nd CCRI(I) Committee Meeting, BIPM, France

Massimo Pinto , Maria Pimpinella, Maurizio Quini, Marco D'Arienzo, Iordana Astefanoaei, Stefano Loreti, and Antonio Stefano Guerra, "Absorbed dose to water measurements in medium energy filtered x-ray beams by a new in-water-phantom graphite calorimeter", Report D.1.2.3 in EMPIR MetrExtRT

Massimo Pinto , Maria Pimpinella, and Antonio Stefano Guerra, "ENEA-INMRI Report to the EURAMET.RI(I)-S13 comparison of primary absorbed dose to water standards in the medium-energy x-ray range" |
| 2013 | M.P. Toni, M. Pinto , M. D'Arienzo, A.S. Guerra, M. Pimpinella, M. Bovi, 2013, "Report to the CCRI section I on the activity carried out at ENEA-INMRI on photon and charged-particles dosimetry in the period 2011-2013", 21st CCRI(I) Committee Meeting, BIPM, France |
| 2012 | Maurizio Bovi, Marco Capogni, Claudio Caporali, Marco D'Arienzo, Pierino De Felice, Antonio Stefano Guerra, Maria Pimpinella, Massimo Pinto , Maria Pia Toni, "Ionizing radiation metrology in cancer radiation therapy", Energia, Ambiente ed Innovazione, 3 |
| 2011 | M.P. Toni, M. Pinto , A.S. Guerra, M. Pimpinella, M. Bovi, S Loreti, 2011, "Report to the CCRI section I on the activity carried out at ENEA-INMRI on photon and charged-particles dosimetry in the period 2009-2011", 21st CCRI(I) Committee Meeting, BIPM, France |

Partecipation in International and European Metrology Research Programs

2021-2024	Primary Contact for ENEA, holder of the Agreement 24675 with the IAEA on “Recommendations on Reference Dosimeters in Laboratory and Clinical Environments in Different Radiodiagnostic Beam Qualities”
2021-	Primary Contact for ENEA, European Metrology Network on Radiation Protection
2020-	Primary contact for ENEA, 19NET03 SupportBSS, “Support for a European Metrology Network on reliable radiation protection regulation”
2019-2022	Workpackage I Leader, “Primary standards and traceable measurement methods for X-ray emitting electronic brachytherapy devices (EMPIR 18NRM02 PRISM-eBT)”, http://www.ebt-empir.eu/
Project Coordinator, 2017-2019	“ k_Q factors in modern external beam radiotherapy applications to update IAEA TRS-398 (EMPIR 16NRM03 RTNORM)”, http://www.rtnorm.eu
2012-2015	Workpackage I Leader, “Metrology for Radiotherapy using Complex Radiation fields (EMRP MetrExtRT)”, http://radiotherapy-emrp.eu
	Workpackage IV Leader, “Biologically-Weighted Quantities in Radiotherapy (EMRP BioQuaRT)”, https://www.ptb.de/emrp/bioquart-home.html
2009-2011	“Increasing Cancer Treatment Efficacy Using 3D brachytherapy (iMera Plus Brachytherapy)”

Partecipation in the National Funding Programs

Scientific Secretary, 2020-2022	“Programma Nazionale per l’affidabilità delle misure di radiazioni ionizzanti basato su confronti interlaboratorio e prove valutative, (ILC/PT)”, MiSE-ILC National Program
Scientific Appointee, 2021-2022	“Realizzazione di Iniziative in materia di tutela dei consumatori, con particolare riferimento alla sicurezza, all’affidabilità ed alla qualità degli strumenti di misura delle radiazioni ionizzanti, anche in adempimento degli obblighi europei ed internazionali in materia ex. art. 3 D.M. 10 August 2020”

External Audits

2020	IAEA Dosimetry Laboratories, Seibersdorf (2020) EURAMET project 1510
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Ad hoc peer review

in radiation dosimetry journals	Metrologia, Medical Physics, Radiation Measurements, Journal of Contemporary Brachytherapy, International Journal of Environmental Research and Public Health, Nuclear Instruments and Methods A, Physica Medica
in radiation biology journals	Radiation Research, International Journal of Radiation Biology, British Journal of Radiology, Molecular Cancer Research, International Journal of Epidemiology, Journal of Pharmacy and Farmacology

Teaching Experience

2021	Lecturer, University of Rome tor Vergata, Master Course in Radiation Protection
2020	Lecturer, University of Rome tor Vergata Medical Physics School, Radiation Dosimetry modules
2019	Lecturer, Joint ICTP-IAEA Workshop on Uncertainty Estimations for Radiation Measurements in SSDs and Hospitals, December 2019, International Center for Theoretical Physics, Trieste, Italy. Available on the eLearning platform of the IAEA Course: Uncertainty Estimations for Radiation Measurements in SSDs and Hospitals
2018	Lecturer, First and Second Level Master's Course in Protection in Chemical, Radiological, Biological, Nuclear and Explosives Events, June and July 2018, University Tor Vergata, Rome, Italy
2016	Lecturer, First and Second Level Master's Course in Protection in Chemical, Radiological, Biological, Nuclear and Explosives Events, March and April 2016, University Tor Vergata, Rome, Italy
2008	Lecturer, Lazio Region Science Festival "Apriamo la Mente", May 16-17, Lazio Region, Italy
2006	Assistant Lecturer, Radiation Biology module, Radiology Residence Training, New Jersey Medical School (New Jersey, USA)
2002	Assistant Lecturer, Electromagnetism module, Physics course for Biology BSc students, University of Naples Federico II, Naples, Italy

Invited Lectures

2019	International Conference on Dosimetry Standards and Applications IDOS2019, June 2019, "The contribution of the RTNORM EU consortium to the update of the kQ factors for the International Dosimetry Code of Practice IAEA TRS 398"
2018	Japanese Medical Physics Society, April 2018, "The RTNORM contribution to the update of the kQ factors for the international dosimetry Code of Practise IAEA TRS 398", Annual Meeting, Yokohama, Japan Brasilian Congress of Ionizing Radiation Metrology, November 2018, "The contribution of a primary standards dosimetry laboratory: ENEA-INMRI, Italy", Rio de Janeiro, Brasil
2016	Elettra Sincrotrone Trieste, Italy, March 9, 2016, "I campioni nazionali e la riferibilità delle misure dosimetriche con radiazione fotonica di bassa energia (< 50 keV) per scopi medici e radioprotezionistici"
2007	Vatican Scientific Academy, Rome, Italy, December 20, Invited oral presentation on the "Cosmic Silence" experiment <i>Keynote</i> lecture, Annual Meeting of the Italian Association for Medical Physics, September, Congress Center "Il Ciocco", Castelvechio Pascoli (Lu), Italy

Computing skills

OS	Linux, Unix, Mac, Windows
Languages	C++, Visual C++, FORTRAN 90, Python, L ^A T _E X
Data Viz	DataGraph, Matplotlib, Seaborn
versioning	Git

databases	MySQL
Web	Wordpress, GitHub pages and Jekyll
<p>Major scientific publications in peer-reviewed journals: Radiation Biology</p>	
2018	Testa A, Ballarini F, Giesen U, Gil O M, Carante M P, Tello J, Langner F, Rabus H, and Palma V, Pinto M and Patrono C, 2018, “Analysis of Radiation-Induced Chromosomal Aberrations on a Cell-by-Cell Basis after Alpha-Particle Microbeam Irradiation: Experimental Data and Simulations”, <i>Radiat Res</i> 189 (6)
2015	C Patrono, O Monteiro Gil, U Giesen, F Langner, M Pinto , H Rabus and A Testa, 2015 “‘BioQuaRT’ project: design of a novel in situ protocol for the simultaneous visualisation of chromosomal aberrations and micronuclei after irradiation at microbeam facilities”, <i>Radiation Protection Dosimetry</i> 166 (1-4)
2011	G. Esposito, A. Campa, M. Pinto , G. Simone, M. A. Tabocchini and M. Belli, 2011, “Adaptive Response: Modeling and Experimental Studies”, <i>Radiation Protection Dosimetry</i> , 143 (2-4)
2010	M. Pinto , E.I. Azzam, and R.W. Howell, 2010, “Investigation of Adaptive Responses in Bystander Cells in 3D Cultures Containing Tritium-Labeled and Unlabeled Normal Human Fibroblasts”, <i>Radiation Research</i> , 174 (2)
2009	Carbone, M. C., Pinto, M. , Antonelli, F., Amicarelli, F., Balata, M., Belli, M., Conti Devirgiliis, L., Ioannucci, L., Nisi, S., Sapor, O., Satta, L., Simone, G., Sorrentino and E., Tabocchini, M.A., 2009, “The <i>Cosmic Silence</i> Experiment: on the putative adaptive role of environmental ionizing radiation”, <i>Radiat. and Environ Biophysics</i> , 48
2008	Antonelli, F., Belli, M., Pinto, M. , Sapor, O., Sorrentino, E., Simone, G., Tabocchini, M. A., Amicarelli, F., Conti De Virgiliis, L., Carbone, M. C., Balata, M., Ioannuci, L., Nisi, S. and Satta, L. 2008, “PULEX: Influence of environment radiation background on biochemistry and biology of cultured cells and on their response to genotoxic agents”, <i>Il Nuovo Cimento C</i>
2007	Pinto, M and Howell, R. W. “Concomitant quantification of targeted drug delivery and biological response in individual cells”, <i>Biotechniques</i> Jul; 43 (1) Howell, R. W., Neti, P. S. V., Pinto, M. , Gerashchenko, B. I., Narra, V. R. and Azzam, E. I., 2007, “Challenges and Progress in Predicting Biological Responses to Incorporated Radioactivity”, <i>Radiat Prot Dosimetry</i> 122 , 521-27
2006	Pinto, M. , Azzam, E. I. and Howell, R. W., 2006, “Bystander Responses in human 3D cultures containing radiolabeled and unlabeled cells”, <i>Radiat Prot Dosimetry</i> 122
2005	Pinto, M. , Prise, K. M. and Michael, B. D., 2005, “Evidence for complexity at the nanometer scale of radiation induced DNA DSB as a determinant of rejoining kinetics”, <i>Radiation Research</i> 164 (1)
2004	Pinto, M. , Prise, K. M. and Michael, B. D., 2004, “A Monte Carlo model of DNA double-strand break clustering and rejoining kinetics for the analysis of pulsed-field gel electrophoresis data”, <i>Radiation Research</i> 162 (4)

- 2002 **Pinto, M.**, Prise, K. M. and Michael, B. D., 2002, "Quantification of radiation induced DNA double-strand breaks in human fibroblasts by PFGE: testing the applicability of random breakage models", Int J of Radiation Biology, **78**
- Pinto, M.**, Prise, K. M. and Michael, B. D., 2002, "DSB rejoining after irradiation of human fibroblasts with X-rays or alpha-particles: PFGE studies and numerical models", Radiat Prot Dosimetry, **99**
- 2001 Prise, K. M., **Pinto, M.**, Newman, H. C. and Michael, B. D., 2001, "A review of studies of ionizing radiation-induced double-strand break clustering", Radiation Research, **156**
- 2000 **Pinto, M.**, Newman, H. C., Prise, K. M. and Michael, B. D., 2000, "Quantification of DNA damage by PFGE: development of an analytical approach to correct for the background distribution", Int J of Radiation Biology, **76**

Scientific publications in other research areas

- 2020 S Biancotto, A Malizia, **M Pinto**, GM Contessa, A Coniglio, and M D'Arienzo, "Analysis of a dirty bomb attack in a large metropolitan area: simulate the dispersion of radioactive materials", Journal of Instrumentation **15(02)** P02019
- 2016 ESTRO Newsletter, Editors' pick, Physics Corner on: Pinto *et. al.*, "A graphite calorimeter for absolute measurements of absorbed dose to water: application in medium-energy x-ray filtered beams", **May-June** 2016
- 2012 Vered Anzenberg Shaffer, Marjan Boerma, Manuela Buonanno, Sylvain Costes, Tracy Criswell, Geraldine Gonon, Badri Narain Pandey, **Massimo Pinto**, and Sara Rockwell, "Broadcasting in the airways: the fifth anniversary of the Radiation Research podcast", Radiation Research, **178**

Awards and recognitions in Radiation Biology

- 2006 Scholar in Training Travel Award, Radiation Research Society (RRS) 53rd meeting, Philadelphia, Pennsylvania, USA, 4-8 November. Oral presentation
- Gallo Award for Outstanding Cancer Research, The Cancer Institute of New Jersey and The New Jersey State Commission on Cancer Research, Annual Retreat, Piscataway, NJ, USA, May 25. Oral presentation
- 2005 Young Investigator Award, 14th Symposium on Microdosimetry, Venezia, Italy, November 13-18. Oral presentation
- 2002 Young Investigator Award, Annual Biophysics School, Bressanone, Italy, September 10-13. Poster presentation
- 2001 Young Investigator Award, 7th International Workshop, Radiation Damage to DNA, Orleans, Nouans le Fuzelier, France, September 2-7. Oral presentation
- Young Investigator Award, 13th Symposium on Microdosimetry, Stresa, Lake Maggiore, Italy, May 27-June 1. Oral Presentation
- 2000 Young Investigator Award, Italian Society for Radiation Research (SIRR) 10th meeting, Frascati, Italy, November 19-22. Oral Presentation

	Young Investigator Award, Radiation Research Society (RRS) 47th meeting, Albuquerque, New Mexico, USA, 28 April-3 May. Oral and Poster presentation
	Young Investigator Award, Association for Radiation research (ARR) meeting, Bristol, UK, 10-12 April. Oral and Poster presentation. Also received a prize for one of the best three poster presentations at the meeting, <i>ex aequo</i>
1999	First prize for the best Laurea (<i>BSc</i>) graduation thesis in the field of radiation research in 1998, Italian Society for Radiation Research (SIRR), Annual Meeting, Padua, Italy. Also gave an oral presentation

Science Communication

Blogging and Podcasting	I have been a science communication blogger since 2006, writing on the Galileo science journal as guest research scientist blogger, and later on the multi-authored blog Fisici per il mondo. Between 2005 and 2013 I have directed the Podcast for the scientific monthly journal <i>Radiation Research</i> of the Radiation Research Society
Audio documentaries (in Italian)	I am occasionally involved with the RAI Radio 3 programme Wikiradio, which publishes daily audio documentaries. Stories that I have written and told include:
2021	The story of the life and achievements of Louis Harold Gray, on air on July 9. The story of Wilhelm Conrad Röntgen and his discovery of x-rays, on air November 8.
2020	The story of the Radium Girls of Illinois and New Jersey, on air on May 1.
2019	The Meter Convention, on air on May 20.