

Curriculum Vitae Europass

Informazioni personali

Cognome(i)/Nome(i) **Luca Boldrini**
Indirizzo(i) Fondazione Policlinico Universitario "A. Gemelli" IRCCS
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Cittadinanza Italiana
Data di nascita 15/01/1987
Sesso M

Settore professionale SC/SSD 06/1 Diagnostica per Immagini, Radioterapia e Neuroradiologia
MED36

Esperienza professionale

- 2022 Abilitazione a Professore di I Fascia per il settore concorsuale 06/11
- 2022 Docente a contratto Master di II livello "Gynecological Ultrasound" presso Università Cattolica del Sacro Cuore, Roma
- 2020 Consigliere al Consiglio Direttivo nazionale dell'AIRO giovani
- 2020 Abilitazione a Professore di II Fascia per il settore concorsuale 06/11
- 2020 Coordinatore scientifico del "Radiomics G2M Lab" presso Gemelli Molise, Campobasso
- 2020 Membro del comitato di supervisione e operativo del Progetto "Generator" presso Fondazione Policlinico Universitario "A. Gemelli" IRCCS, Roma
- 2020 Docente a contratto nel Corso di Laurea in Medicina e Chirurgia presso Università Cattolica del Sacro Cuore, Roma
- 2020 Docente a contratto e membro del consiglio direttivo nel Master II livello "Big data and value generation in biomedical research and clinical practice" presso Università Cattolica del Sacro Cuore, Roma
- 2020 Commissario esterno per candidati al titolo di "Doctor of Philosophy" (PhD) presso School of Medicine, Trinity College di Dublino, Irlanda
- 2020 Docente del corso "Postgraduate diploma in Advanced Radiation Therapy Practice (treatment planning strand)" presso School of Medicine, Trinity College di Dublino, Irlanda
- 2019 Direttore clinico del corso "In-Room MRI-Guided Radiotherapy" presso European Society for Radiotherapy and Oncology (ESTRO)
- 2019 Segretario scientifico del Working Group di Radiomica di Alleanza Contro il Cancro
- 2019 Membro dell'editorial board "Technical Innovations & Patient Support in Radiation Oncology", Elsevier, ESTRO
- 2018 Docente del corso "Patient positioning and immobilization" presso European Society for Radiotherapy and Oncology (ESTRO)
- 2018 Dirigente medico presso UOC Radioterapia Oncologica, servizio MR-Linac presso Fondazione Policlinico Universitario "A. Gemelli" IRCCS, Roma
- 2014 Docente a contratto Master di II livello "Dietetica e nutrizione" presso Università Cattolica del Sacro Cuore, Roma

	2017 Advisor per la ricerca sull'imaging presso KBO.COM srl, spin off dell'Università Cattolica del Sacro Cuore, Roma																				
	2016 Consulente libero professionista Medipass srl presso Fondazione Policlinico Universitario "A. Gemelli" IRCCS, Roma																				
	2014 Docente a contratto Master di I livello "L'alimentazione per la salute, il benessere e lo sport" presso Università Cattolica del Sacro Cuore, Roma																				
	2011 Traduttore scientifico professionale dall'inglese e dal tedesco presso Verduci Editore, Roma																				
Istruzione e formazione	2021 Dottorato di Ricerca in Scienze Oncologiche, XXXIII ciclo Università Cattolica del Sacro Cuore, Roma, Italia																				
	2016 Specialista in Radioterapia (70/70 e lode) Università Cattolica del Sacro Cuore, Roma, Italia																				
	2011 Laurea in Medicina e chirurgia (110/110 e lode) Università Cattolica del Sacro Cuore, Roma, Italia																				
	2005 Diploma di Liceo Classico (100/100) Collegio San Giuseppe – Istituto de Merode, Roma, Italia																				
Madrelingua(e)	Italiano																				
Altra(e) lingua(e)	Inglese, Tedesco																				
Autovalutazione Livello europeo (*)	<table border="1"> <thead> <tr> <th colspan="2">Comprensione</th> <th colspan="2">Parlato</th> <th>Scritto</th> </tr> <tr> <th>Ascolto</th> <th>Lettura</th> <th>Interazione orale</th> <th>Produzione orale</th> <th></th> </tr> </thead> <tbody> <tr> <td>Inglese</td> <td>C2</td> <td>C2</td> <td>C2</td> <td>C2</td> </tr> <tr> <td>Tedesco</td> <td>B2</td> <td>B2</td> <td>C1</td> <td>B2</td> </tr> </tbody> </table>	Comprensione		Parlato		Scritto	Ascolto	Lettura	Interazione orale	Produzione orale		Inglese	C2	C2	C2	C2	Tedesco	B2	B2	C1	B2
Comprensione		Parlato		Scritto																	
Ascolto	Lettura	Interazione orale	Produzione orale																		
Inglese	C2	C2	C2	C2																	
Tedesco	B2	B2	C1	B2																	
Interessi di ricerca	Radiomica e analisi avanzata di bioimmagini Artificial Intelligence in oncologia MR guided Radiotherapy Oncologia polmonare Re-irradiazione Immunoterapia																				
Società scientifiche	Associazione Italiana di Radioterapia Oncologica (AIRO) Consigliere del focus team di Radiomica AIRO-AIRB European Society for Radiotherapy and Oncology (ESTRO) European Society of Hybrid Medical Imaging (ESHI) Image Biomarker Standardisation Initiative (IBSI) Segretario Scientifico di Radiation and Oncology MEta-campus Organization (ROMEIO)																				
Pubblicazioni e partecipazione a congressi	Numero pubblicazioni 166 Numero di citazioni (Scopus) 2.846 H-index (Scopus) 25 Autore e coautore di 3 monografie scientifiche Autore e coautore di 5 capitoli di libro Autore e coautore di oltre 70 comunicazioni orali a congressi scientifici nazionali ed internazionali																				

Reviewer per più di 20 riviste scientifiche internazionali e membro dell'editorial board in 5

Brevetti

Titolare di deposito brevettuale #20202000005950 per sistema di posizionamento modulare per radioterapia ibrida con risonanza magnetica.

Elenco Pubblicazioni Articoli su rivista

1. "Clinical validation of atlas-based auto-segmentation of pelvic volumes and normal tissue in rectal tumors using auto-segmentation computed system" - *Acta Oncologica* – 2013; 52(8):1676-81
M.A. Gambacorta, C. Valentini, N. Dinapoli, L. Boldrini, N. Caria, M.C. Barba, G.C. Mattiucci, D. Pasini, B. Minsky, V. Valentini
2. "Automatic delineation for replanning in nasopharynx radiotherapy: what is the agreement among experts to be considered as benchmark?" - *Acta Oncologica* – 2013; 52: 1417–1422
G.C. Mattiucci, L. Boldrini, G. Chiloiro, G.R. D'Agostino, S. Chiesa, F. De Rose, L. Azario, D. Pasini, M.A. Gambacorta, M. Balducci, V. Valentini
3. "Recommendations on how to establish evidence from autosegmentation software in radiotherapy" *Radiotherapy and Oncology* – 2014; 112: 317–320
V. Valentini, L. Boldrini, A. Damiani, L.P. Muren
4. "Moddicom: a complete and easily accessible library for prognostic evaluations relying on image features" - *Conf Proc IEEE Eng Med Biol Soc. 2015:771-4*
N. Dinapoli, A.R. Alitto, M. Vallati, R. Gatta, R. Autorino, L. Boldrini, A. Damiani, V. Valentini
5. "Automatic segmentation software in locally advanced rectal cancer: READY (REsearch program in Auto Delineation sYstem)-RECTAL 02: prospective study" – *Oncotarget* - 2016 Jul 5;7(27):42579-42584
M.A. Gambacorta, L. Boldrini, C. Valentini, N. Dinapoli, G.C. Mattiucci, G. Chiloiro, D. Pasini, S. Manfrida, N. Caria, B. Minsky, V. Valentini
6. "RadioBio data: A Moddicom module to predict tumor control probability and normal tissue Complication Probability in Radiotherapy" - *HEALTHINF 2016 - 9th International Conference on Health Informatics, Proceedings; Part of 9th International Joint Conference on Biomedical Engineering Systems and Technologies, BIOSTEC 2016: 277-281*
N. Dinapoli, A. Alitto, M. Vallati, R. Autorino, R. Gatta, L. Boldrini, A. Damiani, G. Mantini, V. Valentini
7. "Beyond geometrical overlap: a dosimetrical evaluation of automated target volumes adaptation (DEA) in head and neck replanning" - *Technical Innovations & Patient Support in Radiation Oncology* – 2017;3–4:1–6
G.C. Mattiucci, L. Boldrini, L. Placidi, L. Azario, N. Dinapoli, G. Chiloiro, D. Pasini, D. Piccari, M.A. Gambacorta, M. Balducci, G. Mantini, V. Valentini
8. "INTERACTS (Interventional Radiotherapy Active Teaching School) guidelines for quality assurance in choroidal melanoma Interventional Radiotherapy (Brachytherapy) procedures" - *Journal of Contemporary Brachytherapy* – 2017 Jun;9(3):287-295
L. Tagliaferri, M. Pagliara, L. Boldrini, C.G. Caputo, L. Azario, M. Campitelli, M.A. Gambacorta, D. Smaniotto, V. Frascino, F. Deodato, A.G. Morganti, G. Kovács, V. Valentini, M.A. Blasi

9. "Nomogram for predicting radiation maculopathy in patients treated with Ruthenium106 plaque brachytherapy for uveal melanoma" - *Journal of Contemporary Brachytherapy* – 2017; 9,6
L. Tagliaferri, M. Pagliara, C. Masciocchi, A. Scupola, L. Azario, G. Grimaldi, R. Autorino, M.A. Gambacorta, A. Laricchiuta, L. Boldrini, V. Valentini, M.A. Blasi
10. "Fractal-based radiomic approach to predict complete pathological response after chemoradiotherapy in rectal cancer" - *Radiol Med.* 2018 Apr;123(4):286-295.
D. Cusumano, N. Dinapoli, L. Boldrini, G. Chiloiro, R. Gatta, C. Masciocchi, J. Lenkowicz, C. Casà, A. Damiani, L. Azario, J. Van Soest, A. Dekker, P. Lambin, M. De Spirito, V. Valentini
11. "Preliminary data analysis in healthcare multicentric data mining: a privacy preserving distributed approach" - *Journal of e-Learning and Knowledge Society* – 2018;14(1),71-81.
A. Damiani, C. Masciocchi, L. Boldrini, R. Gatta, N. Dinapoli, J. Lenkowicz, G. Chiloiro, M. A. Gambacorta, L. Tagliaferri, R. Autorino, M. M. Pagliara, M. A. Blasi, J. van Soest, A. Dekker, V. Valentini
12. "A new standardized data collection system for interdisciplinary thyroid cancer management: Thyroid COBRA" - *Eur J Intern Med.* 2018 Feb 21. pii: S0953-6205(18)30062-1.
L. Tagliaferri, C. Gobitti, G. F. Colloca, L. Boldrini, E. Farina, C. Furlan, F. Paiar, F. Vianello, M. Basso, L. Cerizza, F. Monari, G. Simontacchi, M. A. Gambacorta, J. Lenkowicz, N. Dinapoli, V. Lanzotti, R. Mazzarotto, E. Russi, M. Mangoni
13. "Hybrid Tri-Co-60 MRI radiotherapy for locally advanced rectal cancer: an in silico evaluation" *Technical Innovations & Patient Support in Radiation Oncology* – 2018; 6, 5–10
L. Boldrini, E. Placidi, N. Dinapoli, L. Azario, F. Cellini, M. Massacesi, S. Chiesa, M. A. Gambacorta, G. C. Mattiucci, D. Piccari, S. Teodoli, M. De Spirito, V. Valentini
14. "Use of indirect target gating in magnetic resonance-guided liver stereotactic body radiotherapy: case report of an oligometastatic patient" - *Cureus* 10(3): e2292. DOI 10.7759/cureus.2292
L. Boldrini, F. Cellini, S. Manfrida, G. Chiloiro, S. Teodoli, D. Cusumano, B. Fionda, G. C. Mattiucci, A.M. De Gaetano, L. Azario, V. Valentini
15. "Magnetic Resonance, vendor-independent, intensity histogram analysis predicting pathological complete response after radiochemotherapy of rectal cancer" - *International Journal of Radiation Oncology, Biology, Physics* – 2018 May 4. pii: S0360-3016(18)30743-0.
N. Dinapoli, B. Barbaro, R. Gatta, G. Chiloiro, C. Casà, C. Masciocchi, A. Damiani, L. Boldrini, M.A. Gambacorta, M. Dezio, G. C. Mattiucci, M. Balducci, J. van Soest, A. Dekker, P. Lambin, C. Fiorino, C. Sini, F. De Cobelli, N. Di Muzio, C. Gumina, P. Passoni, R. Manfredi, V. Valentini
16. "ENT COBRA ONTOLOGY: the covariates classification system proposed by the Head & Neck and Skin GEC ESTRO Working Group for interdisciplinary standardized data collection in head and neck patient cohorts treated with interventional radiotherapy" - *J Contemp Brachytherapy.* 2018;10(3)260-266
L. Tagliaferri, A. Budrukkar, J. Lenkowicz, M. Cambeiro, F. Bussu, J.L. Guinot, G. Hildebrandt, B. Johansson, J.E. Meyer, P. Niehoff, A. Rovirosa, Z. Takácsi-Nagy, L. Boldrini, N. Dinapoli, V. Lanzotti, A. Damiani, R. Gatta, B. Fionda, V. Lancellotta, T. Soror, R. Martinez Monge, V. Valentini, G. Kovács

17. "Experimental evaluation of the impact of low tesla transverse magnetic field on dose distribution in presence of tissue interfaces" - *Physica Medica* - 53 (2018) 80–85
D. Cusumano, S. Teodoli, F. Greco, A. Fidanzio, L. Boldrini, M. Massaccesi, F. Cellini, V. Valentini, L. Azario, M. De Spirito
18. "Predicting tumour motion during the whole radiotherapy treatment: a systematic approach for thoracic and abdominal lesions based on real time MR" - *Radiother Oncol.* 2018 Aug 22. pii: S0167-8140(18)33425-X
D. Cusumano, J. Dhont, L. Boldrini, G. Chiloiro, S. Teodoli, M. Massaccesi, B. Fionda, F. Cellini, L. Azario, J. Vandemeulebroucke, M. De Spirito, V. Valentini, D. Verellen
19. "Delta Radiomics for rectal cancer response prediction with hybrid 0.35 T Magnetic Resonance guided Radiotherapy (MRgRT) : a hypothesis generating study for an innovative personalized medicine approach" - *Radiol Med.* 2019 Feb;124(2):145-153.
L. Boldrini, D. Cusumano, G. Chiloiro, C. Casà, C. Masciocchi, J. Lenkiewicz, F. Cellini, N. Dinapoli, L. Azario, S. Teodoli, M.A. Gambacorta, M. De Spirito, V. Valentini
20. "Shoulder girdle impairment in breast cancer survivors: the role of range of motion as predictive factor for dose distribution and clinical outcome" - *Tumori.* 2019 Apr 1:300891619839287.
F. Marazzi, V. Masiello, D. Marchesano, L. Boldrini, S. Luzi, P.E. Ferrara, E. Amabile, D. Piccari, F. Landi, F. Moschella, G. Franceschini, R. Masetti, G. Mantini, V. Valentini, D. Smaniotto
21. "Interventional radiotherapy (brachytherapy) for squamous cell carcinoma of the nasal vestibule: a multidisciplinary systematic review of literature" - *Eur J Dermatol.* 2019 Aug 1;29(4):417-421.
L. Tagliaferri, B. Fionda, F. Bussu, C. Parrilla, V. Lancellotta, F. Deodato, S. Cammelli, L. Boldrini, M.A. Gambacorta, A.G. Morganti, V. Valentini, G. Paludetti, K. Peris, G. Kovacs
22. "On the feasibility of distributed process mining in healthcare" - *Computational Science ICCS 2019;* 445-452
R. Gatta, M. Vallati, J. Lenkiewicz, C. Masciocchi, F. Cellini, L. Boldrini, C. Fernandez Llatas, V. Valentini, A. Damiani
23. "MR-guided radiotherapy in rectal cancer: first clinical experience of an innovative technology" *Clin Transl Radiat Oncol.* 2019 Apr 12;18:80-86.
G. Chiloiro, L. Boldrini, E. Meldolesi, A. Re, F. Cellini, D. Cusumano, B. Corvari, G. Mantini, M. Balducci, V. Valentini, M.A. Gambacorta
24. "Online MR guided radiotherapy for rectal cancer. New opportunities" - *Clin Transl Radiat Oncol.* 2019 Apr 8;18:66-67.
C. Gani, L. Boldrini, V. Valentini
25. "A new frontier of Image Guidance: Organs at Risk avoidance with MRI-guided respiratory-gated Intensity Modulated Radiotherapy, technical note and report of a case" - *J Appl Clin Med Phys.* 2019 Jun;20(6):194-198.
M. Massaccesi, D. Cusumano, L. Boldrini, N. Dinapoli, M. Balducci, B. Fionda, S. Teodoli, L. Azario, G. C. Mattiucci, F. Cellini, V. Valentini
26. "Online adaptive Magnetic Resonance guided Radiotherapy for pancreatic cancer: state of the art, pearls and pitfalls" - *Radiat Oncol.* 2019 Apr 29;14(1):71.

L. Boldrini, D. Cusumano, F. Cellini, L. Azario, G.C. Mattiucci, V. Valentini

27. "MR-guidance in clinical reality: current treatment challenges and future perspectives" - *Radiation Oncology* (2019) 14:92

S. Corradini, F. Alongi, N. Andratschke, C. Belka, L. Boldrini, F. Cellini, J. Debus, M. Guckenberger, J. Hörner-Rieber, F. J. Lagerwaard, R. Mazzola, M. A. Palacios, M. E. P. Philippens, C. P. J. Raaijmakers, C. H. J. Terhaard, V. Valentini, M. Niyazi

28. "Multi-object tracking in MRI-guided radiotherapy using the tracking-learning-detection framework" *Radiother Oncol.* 2019 May 25;138:25-29

J. Dhont, J. Vandemeulebroucke, D. Cusumano, L. Boldrini, F. Cellini, V. Valentini, D. Verellen

29. "The role of radiotherapy (RT) in the treatment of Adenoid Cystic Carcinoma of the Breast: case report of RT retreatment and literature review" - *Clinical oncology and research* ISSN 2613-4942

V. Masiello, F. Marazzi, D. Smaniotto, D. Terribile, F. Moschella, S. Luzi, L. Boldrini, G. Franceschini, R. Masetti, V. Valentini

30. "Evaluation of a simplified optimiser for MR-guided adaptive RT in case of pancreatic cancer" *J Appl Clin Med Phys.* 2019 Sep; 20(9): 20–30.

D. Cusumano, L. Boldrini, S. Menna, S. Teodoli, E. Placidi, G. Chiloiro, L. Placidi, F. Greco, G. Stimato, F. Cellini, V. Valentini, L. Azario, M. De Spirito.

31. "Comparison of radiomics tools for image analyses and clinical prediction in nasopharynx cancer" *Br J Radiol.* 2019 Aug 27;20190271. doi: 10.1259/bjr.20190271.

Z.G. Liang, H.Q. Tan, F. Zhang, L.K. Rui Tan, L. Lin, J. Lenkowicz, H. Wang, E.H. Wen Ong, G. Kusumawidjaja, J.H. Phua, S.A. Gan, S.Y. Sin, Y.Y. Ng, T.W. Kiat Tan, Y.L. Soong, K.W. Fong, S.Y. Park, K.C. Soo, J.T. Seng Wee, X.D. Zhu, V. Valentini, L. Boldrini, Y. Sun, M.L. Kiang Chua

32. "Role of upper abdominal reirradiation for gastrointestinal malignancies: a systematic review of cumulative dose, toxicity, and outcomes on behalf of the Re-Irradiation Working Group of the Italian Association of Radiotherapy and Clinical Oncology (AIRO)"

Strahlenther Onkol. 2020 Jan;196(1):1-14. 5.

L. Caravatta, F. Fiorica, C. Rosa, L. Boldrini, A.R. Alitto, A. Nardangeli, F. Dionisi, L. Bianco, F. Munoz, M. Lupattelli, G. Mantello, D. Genovesi, M. Massaccesi; Re-Irradiation Working Group of the Italian Association of Radiotherapy and Clinical Oncology (AIRO).

33. "Deep learning: a review for the radiation oncologist" - *Front Oncol.* 2019 Oct 1;9:977.

L. Boldrini, J.E. Bibault, C. Masciocchi, Y. Shen, M.I. Bittner

34. "Low Tesla Magnetic Resonance guided Radiotherapy for locally advanced cervical cancer : first clinical experience" - *Tumori* 2020 Dec;106(6):497-505.

L. Boldrini, A. Piras, G. Chiloiro, R. Autorino, F. Cellini, D. Cusumano, M. Campitelli, F. Marazzi, M. Balducci, V. Valentini, M. A. Gambacorta

35. "Hybrid MRI guided radiotherapy in locally advanced cervical cancer: Case report of an innovative personalized therapeutic approach" - *Clin Transl Radiat Oncol.* 2019 Oct 25;20:27-29.

L. Boldrini, G. Chiloiro, A. Pesce, A. Romano, S. Teodoli, L. Placidi, M. Campitelli, M.A. Gambacorta, V. Valentini

36. "The Image Biomarker Standardization Initiative: standardized quantitative radiomics for high-throughput image-based phenotyping" - *Radiology*. 2020 May;295(2):328-338.
A. Zwanenburg, M. Vallières, M.A. Abdalah, H.J.W.L. Aerts, V. Andrearczyk, A. Apte, S. Ashrafinia, S. Bakas, R.J. Beukinga, R. Boellaard, M. Bogowicz, L. Boldrini, I. Buvat, G.J.R. Cook, C. Davatzikos, A. Depeursinge, M.C. Desserot, N. Dinapoli, C.V. Dinh, S. Echegaray, I. El Naqa, A.Y. Fedorov, R. Gatta, R.J. Gillies, V. Goh, M. Götz, M. Guckenberger, S.M. Ha, M. Hatt, F. Isensee, P. Lambin, S. Leger, R.T.H. Leijenaar, J. Lenkowicz, F. Lippert, A. Losnegård, K.H. Maier-Hein, O. Morin, H. Müller, S. Napel, C. Nioche, F. Orhac, S. Pati, E.A.G. Pfaehler, A. Rahmim, A.U.K. Rao, J. Scherer, M.M. Siddique, N.M. Sijtsema, J. Socarras Fernandez, E. Spezi, R.J.H.M. Steenbakkens, S. Tanadini-Lang, D. Thorwarth, E.G.C. Troost, T. Upadhaya, V. Valentini, L.V. van Dijk, J. van Griethuysen, F.H.P. van Velden, P. Whybra, C. Richter C, S. Löck
37. "Abscopal effect and interventional oncology: state of art and future perspectives" - *Eur Rev Med Pharmacol Sci*. 2020 Jan;24(2):773-776.
B. Fionda, M. Massaccesi, L. Tagliaferri, N. Dinapoli, R. Iezzi, L. Boldrini
38. "Spatially fractionated radiotherapy (SFRT) targeting the hypoxic tumor segment for the intentional induction of non-targeted effects: An in silico study to exploit a new treatment paradigm" - *Tech Innov Patient Support Radiat Oncol*. 2020 Mar 2;14:11-14.
M. Massaccesi, L. Boldrini, A. Piras, G. Stimato, F. Quaranta, L. Azario, G.C. Mattiucci, V. Valentini
39. "Template-based automation of treatment planning in advanced radiotherapy: a comprehensive dosimetric and clinical evaluation" - *Sci Rep*. 2020 Jan 16;10(1):423.
S. Cilla, A. Ianiro, C. Romano, F. Deodato, G. Macchia, M. Buwenge, N. Dinapoli, L. Boldrini, A.G. Morganti, V. Valentini
40. "Role of radiation oncology in modern multidisciplinary cancer treatment" - *Mol Oncol*. 2020 Jul;14(7):1431-1441
V. Valentini, L. Boldrini, S. Mariani, M. Massaccesi
41. "Radiation therapy during coronavirus disease 2019 (COVID-19) pandemic in Italy: a national young oncologist's view" - *ESMO Open*. 2020 Apr;5(2):e000779.
I. Meattini, P. Franco, L. Belgioia, L. Boldrini, A. Botticella, M.C. De Sanctis, G. Marvaso, G. Montesi, S. Parisi, L. Triggiani, M. Lambertini, L. Livi
42. "OncotypeDX® predictive nomogram for recurrence score output: a system based on quantitative immunochemistry analysis - ADAPTED01" - *Clin Breast Cancer*. 2020 Oct;20(5):e600-e611.
F. Marazzi, R. Barone, V. Masiello, V. Magri, A. Mulè, A. Santoro, F. Cacciatori, L. Boldrini, G. Franceschini, F. Moschella, G. Naso, S. Tomao, M.A. Gambacorta, G. Mantini; R. Masetti; D. Smaniotto, V. Valentini
43. "Radiotherapy imaging: an unexpected ally in fighting COVID 19 pandemic" - *Radiother Oncol*. 2020 Apr 25. pii: S0167-8140(20)30217-6.
L. Boldrini, N. Dinapoli, V. Valentini
44. "Magnetic resonance-guided radiotherapy feasibility in elderly cancer patients: proposal of the MASTER scoring system" - *Tumori Journal* 2020 May 15;300891620920709.
L. Boldrini, G. F. Colloca, E. Villani, G. Chiloiro, A. Bellieni, S. Manfrida, F. Cellini, M. A. Gambacorta, V. Valentini

45. "On-line adaptive MR guided radiotherapy for locally advanced pancreatic cancer: clinical and dosimetric considerations" - *Tech Innov Patient Support Radiat Oncol.* 2020 Jul 2;15:15-21
L. Placidi, A. Romano, G. Chiloiro, D. Cusumano, L. Boldrini, F. Cellini, G.C. Mattiucci, V. Valentini
46. "Paget's disease of scrotum and penis. Case report of a re-irradiation and review of the literature" *Dermatol Ther.* 2020 Nov;33(6):e13890.
A. Piras, A. Sanfratello, L. Boldrini, M. La Vecchia, V. Venuti, L. Amari, M.M. Orlando, L. Zichichi, T. Angileri, A. Daidone
47. "Convolutional neural network based on fluorescein angiography images for retinopathy of prematurity management" - *Trans. Vis. Sci. Tech.* 2020; 9(2):37.
D. Lepore, M. H. Ji, M. M. Pagliara, J. Lenkowicz, N. D. Capocchiano, L. Tagliaferri, L. Boldrini, V. Valentini, A. Damiani, for the FA Team of the Italian ROP Study Group
48. "On the accuracy of bulk synthetic CT for MR-guided online adaptive radiotherapy" - *Radiol Med.* 2020 Feb;125(2):157-164.
D. Cusumano, L. Placidi, S. Teodoli, L. Boldrini, F. Greco 1, S. Longo, F. Cellini, N. Dinapoli, V. Valentini, M. De Spirito, L. Azario
49. "External Validation of Early Regression Index (ERI TCP) as predictor of pathologic complete response in rectal cancer using magnetic resonance-guided radiation therapy" - *Int J Radiat Oncol Biol Phys.* 2020 Dec 1;108(5):1347-1356.
D. Cusumano, L. Boldrini, P. Yadav, G. Yu, Bindu Musurunu, G. Chiloiro, A. Piras, J. Lenkowicz, L. Placidi, S. Broggi, A. Romano, M. Mori, B. Barbaro, L. Azario, M. A. Gambacorta, M. De Spirito, M. F Bassetti, Y. Yang, C. Fiorino, V. Valentini
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Elenco Pubblicazioni
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 T. Pirroni, L. Boldrini
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2. "Principles and clinical applications of autocontouring software" – FrancoAngeli Editore
 L. Boldrini, A. Damiani, V. Valentini
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3. "Learning lessons from across Europe: prioritizing lung cancer after COVID-19" – World Economic Forum White paper – Davos Agenda 2021.
 D. Baldwin, F. Barlesi, T. Baroni Allmon, A. Bernaert, L. Boldrini, C.S. Buşoi, M. L. Campillo, L. Dance, D. Le Duc, I. Faull, K. Fitzgerald, J. Fox, B. Gaspar, N. Girard, C. Girvalaki, A. Ilbawi, S. Janes, M. Krueger, M. Lawler, M. Militaru, A. Nosal, C. Peedell, S. Schmidt, R. Sharma, I. Walker, M. Zaiac

Elenco Pubblicazioni
Capitoli di libri

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 G.C. Mattiucci, G. Stimato, M.A. Gambacorta, L. Boldrini, R. Canna, D. Pasini
 in "Elementi di Radioterapia Oncologica – Manuale per Tecnici Sanitari di Radiologia Medica"
 M. Balducci, F. Cellini, P. Cornacchione, R.M. D'Angelillo, G.C. Mattiucci, D. Pasini
 2013 – Società Editrice Universo – ISBN 978-88-65150-84-9

2. "Imaging Based Prediction Models"
L. Boldrini, C. Masciocchi, L. Leccisotti
in "Imaging and interventional radiology for radiation oncology"
Editors: R. Beets-Tan, W. Oyen, and V. Valentini
2020 – Springer Verlag – ISBN 978-3-030-38260-5
3. "Use of Anatomical and functional MRI in radiation treatment planning"
A. Romano, L. Boldrini, A. Piras, V. Valentini
in "Image-guided high-precision radiotherapy"
Editors: E. Troost
2022 – Springer Verlag – ISBN 978-3-031-08601-4
4. "Radiomics for MR-Linacs: State of the art and future directions"
L. Boldrini, F. Mahmood, A. Romano, D. Cusumano
In "MR Linac Radiotherapy - A New Personalized Treatment Approach"
Editors: E. Ozyar, C. Onal, S.L. Hackett
2022 – Elsevier – ISBN: 978-0-323-91689-9
5. "Online MR-guided radiotherapy in rectal cancer—Dose escalation and beyond"
C. Gani, L. Boldrini, V. Valentini, D. Zips
In "MR Linac Radiotherapy - A New Personalized Treatment Approach"
Editors: E. Ozyar, C. Onal, S.L. Hackett
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Premi e riconoscimenti

ESTRO Education Grant – gennaio 2015
Certificate of outstanding contribution in reviewing for "Radiotherapy & Oncology" – maggio 2015
ESTRO Mobility Grant for the "Gaining experience in online RT adaptive workflow by MRIdian" at Washington University School of Medicine, Saint Louis (Missouri, USA) – giugno 2017
High Scoring Abstract recognition – ViewRay 2019 Users' Meeting – gennaio 2019
Certificate of Merit for ECR 2020 abstract "MR Delta Radiomics as imaging biomarkers to predict biological behaviour in treated locally-advanced rectal cancer" – marzo 2020
Premio "Italia Giovane" per settore Medicina – dicembre 2022

Grant di ricerca

Ruolo Principal investigator
2019 Ricerca Corrente Reti ACC Radiomics : RECORD study
2019 Ricerca Corrente Reti ACC Lung : RATIONALE study
2022 HORIZON DIGITAL-2022-CLOUD-AI-02-CANCER-IMAGE : EUCAIM

Ruolo Key person e Co-investigator
2020 HORIZON SC1 DTH -12-2020 : RESAMPLE 2
2022 ERAPerMED Lantern
2022 HORIZON-HLTH-2022-STAYHLTH-0 : TRUSTSTROKE
2022 Ricerca Corrente Reti ACC ACCORD

Trial clinici

Principal investigator o local PI
2018 RadiomicS in Hybrid magnetic resonance guided radiotherapy (MRgRT): Response Prediction in Rectal cancer (SHARPER)
2019 Advanced Patient monitoring and A.I. supported outcomes' assessment in pelvic cancers using Internet of Things technologies (APACHE)

2020 Coping with modesty and nudity during radiotherapy for breast cancer: a multicentric study
2022 Locally Advanced Pancreatic Cancer Treated With ABLAtivE Stereotactic MRI-guided Adaptive Radiation Therapy (LAP-ABLATE) (NCT05585554)
2022 Stereotactic MRI-guided On-table Adaptive Radiation Therapy (SMART) for Locally Advanced Pancreatic Cancer (NCT03621644)
2022 Predictive Multimodal Signatures Associated With Response to Treatment and Prognosis of patients With Stage IV Non-small Cell Lung Cancer (DEEP-Lung-IV) (NCT04994795)
2022 Prospective observational study of MR-guided stereotactic ablative radiotherapy of inoperable primary or recurrent malignant cardiac sarcomas or cardiac metastases

Roma, 20 gennaio 2023

Firma



Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali"