

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name	LETIZIA DEANTONIO
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Nationality	Italian
Date of birth	31.05.1981

WORK EXPERIENCE

- **01.05.2011-present** **Senior Consultant in Radiotherapy**, at Radiotherapy Clinic, Istituto Oncologico della Svizzera Italiana, IOSI, Bellinzona, Switzerland
Chief: Dr. Antonella Richetti
Her main clinical and research activities are in the field of lymphomas, multiple myelomas, gastro-intestinal and hepatic malignancies, and skin cancer.
- **01.01.2019-30.04.2021** **Consultant in Radiotherapy**, at Radiotherapy Clinic, Istituto Oncologico della Svizzera Italiana, IOSI, Bellinzona, Switzerland
Chief: Dr. Antonella Richetti
Her main clinical and research activities are in the field of lymphomas, multiple myelomas, gastro-intestinal and hepatic malignancies, and skin cancer.
- **03.06.2013-02.06.2018** **Assistant Professor in Radiotherapy**, at Department of Translational Medicine, University of Piemonte Orientale and University Hospital "Maggiore della Carità", Novara Italy
Chief: Prof. Marco Krengli

Her main clinical and research activities were in the field of: Integrated imaging for radiotherapy, EBRT with intensity modulated radiation therapy and stereotactic radiotherapy for gastro-intestinal tumours, head and neck and brain cancer, and breast cancer.

- **01.03.2012-28-02.2013** **fellow at Radiotherapy** , University Hospital “Maggiore della Carità”, Novara
Chief: Prof. Marco Krengli
Her main research activities were in the field of: Integrated imaging for radiotherapy, breast cancer and IORT for breast cancer.

EDUCATION AND SCIENTIFIC CAREER

- **19.05.2022** **Certificate of Competence in Lymphoma** at Ulm University in collaboration with the European School of Oncology
- **10.05.2021** **PrivatDozent PD, Faculty of Biomedical Sciences, Università della Svizzera Italiana, Lugano, Switzerland**
- **10.04.2017** **Achieved: Italian National Scientific Qualification to Associate Professor in Radiation Oncology, Radiology and Nuclear Medicine (SSD 06-I MED36)**
- **01.05.2015-30.10.2015** **Visiting Professor** at Radiotherapy service, Oncology Department, CHUV Lausanne, Switzerland, Chief Prof. J. Bourhis
Focus on: radiotherapy techniques with high dose delivery for pelvic, gastrointestinal and lung tumours; functional imaging in treatment planning such as lung perfusion SPECT/CT and FDG-PET or SPECT with 99-mTc labelled mebrofenin in liver tumors.
- **24.08.2011** **Board in Radiation Oncology, 70/70 “cum laude”**, at University of Piemonte Orientale, Novara, Italy. Final dissertation: Dysphagia after definitive radiotherapy for head and neck cancer: correlation of dose–volume parameters. Prof. Marco Krengli
- **26.10.2006** **Master Degree in Medicine, 107/110** at University of Piemonte Orientale, Novara, Italy.
Final Dissertation: FDG-PET/CT imaging for staging and radiotherapy treatment planning of head and neck carcinoma. Prof. Marco Krengli

ORGANISATIONAL SKILLS AND COMPETENCES

She is member, in quality of radiation oncology, of the multidisciplinary tumour board of Lymphomas and Multiple Myeloma of the Ente Ospedaliero Cantonale EOC, Switzerland.

She is member, in quality of radiation oncology, of the multidisciplinary tumour board of gastro-intestinal and hepato-biliary diseases of the Ente Ospedaliero Cantonale EOC, Switzerland.

Awards:

2008 XVII Regional Congress AIRO Piemonte valle d'Aosta, best communication prize "Hypofractionated radiotherapy after conservative surgery for breast cancer: analysis of acute and late toxicity "

2010 III National Congress "young AIRO", best communication prize "Adjuvant radiotherapy in endometrial adenocarcinoma: a monoinstitutional experience"

Grants and Funding Received

"Oxidative stress markers in breast cancer patients undergone radiotherapy and music therapy". Università del Piemonte Orientale (FAR 2016 – University Funds for Research).

Teaching activities:

2022-present Principle of Radiation Therapy, Master of Medicine; Faculty of Biomedical Sciences, Università della Svizzera Italiana, Lugano, Switzerland

2019-present lecturer at Centro professionale socio-sanitario medico-tecnico, Locarno Switzerland.

2013-2018 Assistant Professor of Radiotherapy at University School for Radiation Technologists, University of Piemonte Orientale, Novara: course of Radiotherapy Techniques

2013-2018 Assistant Professor of Radiotherapy at University School for Nurses, University of Piemonte Orientale, Novara: course of basis of Radiotherapy and Radioprotection

2013-2018 Assistant Professor of Radiotherapy at Postgraduation School for Radiotherapy, University of Piemonte Orientale, Novara: course of Radiotherapy II.

2017-2018 Assistant Professor of Radiotherapy at University School for Laboratory Technologists, University of Piemonte Orientale, Novara: course of elements of radioprotection

Tutoring for postgraduation School for Radiology, Surgery, Gynecology, University of Piemonte Orientale, Novara

Tutoring for Medical School, University of Piemonte Orientale, Novara

The core of the Scientific publications is :

46 papers in scientific journals listed in PubMed and Scopus (H-Index 14)

1. **Deantonio L**, Beldi D, Gambaro G, Loi G, Brambilla M, Inglese E, Krengli M. FDG-PET/CT imaging for staging and radiotherapy treatment planning of head and neck carcinoma. *Radiat. Oncol.* 3: 29, 2008.
2. Krengli M, Milia ME, Turri L, Mones E, Bassi MC, Cannillo B, **Deantonio L**, Sacchetti G, Brambilla M, Inglese E. FDG-PET/CT Imaging for Staging and Target Volume Delineation in Conformal Radiotherapy of Anal Carcinoma. *Radiat. Oncol.* 5: 10, 2010.
3. **Deantonio L**, Gambaro G, Beldi D, Masini L, Tunesi S, Magnani C, Krengli M. Hypofractionated radiotherapy after conservative surgery for breast cancer: analysis of acute and late toxicity. *Radiat. Oncol.* 5: 112, 2010.
4. **Deantonio L**, Masini L, Gambaro G, Loi G, Krengli M. Detection of setup uncertainties with 3D surface registration system for conformal radiotherapy of breast cancer. *Reports of Practical Oncology and Radiotherapy* 16: 77-81, 2011
5. Milia ME, Turri L, Beldi D, **Deantonio L**, Pareschi R, Krengli M. Multidisciplinary approach in the treatment of malignant paraganglioma of the glomus vagale: a case report. *Tumori, Tumori*, 97: 225-228, 2011.
6. Torrente S, Turri L, **Deantonio L**, Cena T, Gambaro G, Magnani C, Krengli M. Concomitant chemo-radiotherapy for inoperabile esophageal cancer: mono-institutional study on 40 patients. *Rep. Pract. Oncol. Radiother.*, 17: 226-232, 2012
7. **Deantonio L**, Masini L, Brambilla M, Pia F, Krengli M. Dysphagia after

- definitive radiotherapy for head and neck cancer Correlation of dose–volume parameters of the pharyngeal constrictor muscles. *Strahlenther Onkol* 2013 Mar;189(3):230-6.
8. Krengli M, Masini L, Caltavuturo T, Pisani C, Apicella G, Negri E, **Deantonio L**, Brambilla M, Gambaro G. Prone versus supine position for adjuvant breast radiotherapy: a prospective study in patients with pendulous breasts. *Radiat Oncol*. 2013 Oct 8;8(1):232
 9. Martin V, Zanellato E, Franzetti-Pellanda A, Molinari F, Movilia A, Paganotti A, **Deantonio L**, De Dosso S, Assi A, Crippa S, Boldorini R, Mazzucchelli L, Saletti P, Frattini M. EGFR, KRAS, BRAF, and PIK3CA characterization in squamous cell anal cancer. *Histol Histopathol*. 2014 Apr;29(4):513-21.
 10. Krengli M, Masini L, Comoli AM, Negri E, **Deantonio L**, Filomeno A, Gambaro G. Interstitial brachytherapy for eyelid carcinoma. Outcome analysis in 60 patients. *Strahlenther Onkol*. 2014 Mar;190(3):245-9.
 11. Alterio D, Ciardo D, Preda L, Argenone A, Caspiani O, Micera R, Ruo Redda MG, Russi EG, Bianchi E, Orlandi E, Bacigalupo A, Busetto M, Cante D, **Deantonio L**, De Sanctis V, Franco P, Lastrucci L, Marucci L, Merlotti A, Molteni M, Pajar F, Rampino M, Santoro L, Ferrari A, Bazzani F, Caputo M, Laudati A, Borzillo V, Falivene S, Simoni N, Vigo F, Iannacone E, Reali A, Bonanni A, Leone M, Giannello L, Taglianti RV, Orecchia R. Contouring of the Pharyngeal Superior Constrictor Muscle (PSCM). A cooperative study of the Italian Association of Radiation Oncology (AIRO) Head and Neck Group. *Radiother Oncol*. 2014 Jul 5
 12. Ruggieri V, Zeppegno P, Gramaglia C, Gili S, **Deantonio L**, Krengli M. A survey of Italian radiation oncologists: job satisfaction and burnout. *Tumori*. 2014 May-Jun;100(3):307-14.
 13. Krengli M, Apicella G, **Deantonio L**, Paolini M, Masini L. Stereotactic radiation therapy for skull base recurrences: Is still possible a salvage approach? *Rep Pract Oncol Radiother*. 2015 Nov-Dec;20:430-9.
 14. **L Deantonio**, ME Milia, T Cena, G Sacchetti, C Perotti, M Brambilla, L Turri, M Krengli. Anal cancer FDG-PET standard uptake value: correlation with tumor characteristics, treatment response and survival. *Anal cancer FDG-PET standard uptake value: correlation with tumor characteristics, treatment response and survival. Radiol Med*. 2016;121:54-9.
 15. Pisani C, **Deantonio L**, Surico D, Brambilla M, Galla A, Ferrara E, Masini L, Gambaro G, Surico N, Krengli M. Quality of life in patients treated by adjuvant radiotherapy for endometrial and cervical cancers: correlation with dose-volume parameters. *Clin Transl Oncol*. 2015 Nov 25.
 16. Terrazzino S, **Deantonio L**, Cargnin S, Donis L, Pisani C, Masini L, Gambaro G, Canonico PL, Genazzani AA, Krengli M Common European Mitochondrial Haplogroups in the Risk for Radiation-induced Subcutaneous Fibrosis in Breast Cancer Patients.. *Clin Oncol (R Coll Radiol)*. 2016 Mar 9. . doi: 10.1016/j.clon.2016.02.007.
 17. Apicella G, Paolini M, **Deantonio L**, Masini L, Krengli M. Radiotherapy for vestibular schwannoma: Review of recent literature results. *Reports of Practical Oncology and Radiotherapy*. 2016; 21:399-406.
 18. De Bari B, **Deantonio L**, Bourhis J, Prior JO, Ozsahin M. Should we include SPECT lung perfusion in radiotherapy treatment plans of thoracic targets? Evidences from the literature. *Crit Rev Oncol Hematol*. 2016 ; 102:111-7
 19. Fossati, P., Vavassori, A., **Deantonio, L.**, Ferrara E., Krengli, M., Orecchia, R. Review of photon and proton radiotherapy for skull base tumours. *Reports of Practical Oncology and Radiotherapy*. 2016; 21: 336-55
 20. **Deantonio L**, Cozzi S, Tunesi S, Brambilla M, Masini L, Pisani C, Gambaro G, Magnani C, Krengli M. Hypofractionated radiation therapy for breast cancer: long-term results in a series of 85 patients. *Tumori* 2016; 102:398-403
 21. Krengli M, Pisani C, **Deantonio L** . Patient selection for partial breast

irradiation by intraoperative radiation therapy: can magnetic resonance imaging be useful?-perspective from radiation oncology point of view. *J Thorac Dis.* 2016 ;8:E987-E992.

22. Terrazzino S, **Deantonio L**, Cargini S, Donis L, Pisani C, Masini L, Gambaro G, Canonico PL, Genazzani AA, Krengli M. DNA Methyltransferase Gene Polymorphisms for Prediction of Radiation-induced Skin Fibrosis after Treatment of Breast Cancer: a Multifactorial Genetic Approach. *Cancer Res Treat.* 2016 Aug 23. doi: 10.4143/crt.2016.256. [Epub ahead of print]
23. De Bari B, Jumeau R, **Deantonio L**, Adib S, Godin S, Zeverino M, Moeckli R, Bourhis J, Prior JO, Ozsahin M. Role of functional imaging in treatment plan optimization of stereotactic body radiation therapy for liver cancer. *Tumori.* 2016 ;102:e21-e24.
24. Krengli M, Terrazzino S, **Deantonio L**. Hypofractionation for postoperative breast cancer radiotherapy: Is acute toxicity a limiting factor? (Editorial) *Translational Cancer Research* 2016 5, S684-S687.
25. Krengli M, Pisani C, **Deantonio L**, Surico D, Volpe A, Surico N, Terrone C. Intraoperative radiotherapy in gynaecological and genito-urinary malignancies: focus on endometrial, cervical, renal, bladder and prostate cancers. *Radiat Oncol* 2017; 12:18.
26. Gallizia E, Apicella G, Cena T, Di Genesio Pagliuca M, **Deantonio L**, Krengli M. The spine instability neoplastic score (SINS) in the assessment of response to radiotherapy for bone metastases. *Clin Transl Oncol.* 2017 Jun 16. 27.
27. Torras MG, Fundowicz M, Aliste L, Asensio E, Boladeras AM, Borràs JM, Carvalho L, Castro C, **Deantonio L**, Konstanty E, Krengli M, Kruszyna M, Lencart J, Macià M, Marín S, Muñoz-Montplet C, Pisani C, Pinto D, Puigdemont M, Guedea F, Aguiar A, Milecki P, Malicki J. Improving radiation oncology through clinical audits: Introducing the IROCA project. *Rep Pract Oncol Radiother.* 2017 Sep-Oct;22(5):408-414.
28. De Bari B, Breuneval T, Zeverino M, Godin S, **Deantonio L**, Geldhof C, Bourhis J, Schaefer N, Moeckli R, Prior J, Ozsahin M. Hepatobiliary scintigraphy allows the evaluation of short-term functional toxicity of liver stereotactic body radiotherapy: Results of a pilot study. *PLoS One.* 2018 Oct 10;13(10):e0204013.
29. **Deantonio L**, Caroli A, Puta E, Ferrante D, Apicella F, Turri L, Sacchetti G, Brambilla M, Krengli M. Does baseline [18F] FDG-PET/CT correlate with tumor staging, response after neoadjuvant chemoradiotherapy, and prognosis in patients with rectal cancer? *Radiat Oncol.* 2018 Oct 25;13(1):211.
30. Valli M, Cima S, Gaudino D, Cartolari R, **Deantonio L**, Frapolli M, Daniele D, Pesce GA, Martucci F, Azinwi NC, Bosetti D, Presilla S, Richetti A. Skin and lung toxicity in synchronous bilateral breast cancer treated with volumetric-modulated arc radiotherapy: a mono-institutional experience. **Clin Transl Oncol.** 2019 Mar 14.
31. Gramaglia C, Gambaro E, Vecchi C, Licandro D, Raina G, Pisani C, Burgio V, Farruggio S, Rolla R, **Deantonio L**, Grossini E, Krengli M, Zeppegnò P. Outcomes of music therapy interventions in cancer patients-A review of the literature. *Crit Rev Oncol Hematol.* 2019 Apr 5;138:241-254.

32. E. Zanoletti, A. Mazzoni, A. Martini, R.V. Abbritti, R. Albertini, E. Alexandre, V. Baro, S. Bartolini, D. Bernardeschi, R. Bivona, M. Bonali, I. Borghesi, D. Borsetto, R. Bovo, M. Breun, F. Calbucci, M.L. Carlson, A. Caruso, P. Cayé-Thomasen, D. Cazzador, P.-O. Champagne, R. Colangeli, G. Conte, D. d'Avella, G. Danesi, **L. Deantonio**, L. Denaro, F. Di Bernardino, R. Draghi, F.H. Ebner, N. Favaretto, G. Ferri, A. Fioravanti, S. Froelich, A. Giannuzzi, L. Girasoli, B.R. Grossardt, M. Guidi, R. Hagen, S. Hanakita, D.G. Hardy, V.C. Iglesias, S. Jefferies, H. Jia, M. Kalamarides, I.N. Kanaan, M. Krengli, A. Landi, L. Lauda, D. Lepera, S. Lieber, S.L.K. Lloyd, A. Lovato, F. Maccarrone, R. Macfarlane, J. Magnan, L. Magnoni, D. Marchioni, J.P. Marinelli, G. Marioni, V. Mastronardi, C. Matthies, D.A. Moffat, S. Munari, M. Nardone, R. Pareschi, C. Pavone, E. Piccirillo, G. Piras, L. Presutti, G. Restivo, M. Reznitsky, E. Roca, A. Russo, M. Sanna, L. Sartori, M. Scheich, W. Shehata-Dieler, D. Soloperto, F. Sorrentino, O. Sterkers, A. Taibah, M. Tatagiba, G. Tealdo, D. Vlad, H. Wu, D. Zanetti. Surgery of the lateral skull base: a 50-year endeavour. *Acta Otorhinolaryngol Ital.* 2019 Jun;39(SUPPL. 1):S1-S146.
33. Terrazzino S, Cargin S, **Deantonio L**, Pisani C, Masini L, Canonico PL, Genazzani AA, Krengli M. Impact of ATM rs1801516 on late skin reactions of radiotherapy for breast cancer: Evidences from a cohort study and a trial sequential meta-analysis. *PLoS One.* 2019 Nov 22;14(11):e0225685.
34. **Deantonio L**, Cima S, Leva S, Richetti A, Valli M. Hypofractionated volumetric modulated arc therapy (VMAT) for fragile patients with oesophageal cancer. *Clin Transl Oncol.* 2020 Jan 22. doi: 10.1007/s12094-020-02293-y.
35. MA Piliero, M Casiraghi, DG Bosetti, S Cima, **L Deantonio**, S Leva, F Martucci, M Tettamanti, F Pupillo, L Bellesi, A Richetti, S Presilla. Patient-based low dose Cone Beam CT acquisition settings for prostate image guided radiotherapy treatments on a Varian TrueBeam linear accelerator. *Br J Radiol* 2020, accepted for publication.
36. M Fundowicz; A Aguiar; C Lopes de Castro; MG Torras; **L Deantonio**; E Konstanty; M Kruszyna- Mochalska; M Macia; E Canals; M Caro; C Pisani; Da Zwierzchowska; J Molero; A Eraso; J Lencart; C Muñoz-Montplet; L Carvalho; M Krengli; J Malicki; F Guedea. Multicentre clinical radiotherapy audit in rectal cancer: results of the IROCA project. *Radiat Oncol* 2020, accepted for publication
37. Bosetti DG, Ruinelli L, Piliero MA, van der Gaag LC, Pesce G, Valli MC, Bosetti M, Presilla S, Richetti A, **Deantonio L**. Cone-Beam Computed Tomography (CBCT) Based Radiomics in Prostate Cancer: A Mono-institutional Study. *Strahlenther Onkol.* 2020; accepted for publication.
38. **L Deantonio**, D Bosetti, S Cima, F Martucci, G Borgonovo, G Di Bella, GA Pesce, MC Valli, A Richetti. #Stayathome: Smart Working for Radiation Oncologist at the Time of Coronavirus. *Strahlenther Onkol.* 2020; DOI 10.1007/s00066-020-01683-z.
39. Pisani C, Vigna L, Mastroleo F, Loi G, Amisano V, Masini L, **Deantonio L**, Aluffi Valletti P, Sacchetti G, Krengli M. Correlation of [18F] FDG-PET/CT with dosimetry data: recurrence pattern after radiotherapy for head and neck carcinoma. *Radiat Oncol.* 2021 21;16(1):57.

40. Alfieri S, Romanò R, Bologna M, Calareso G, Corino V, Mirabile A, Ferri A, Bellanti L, Poli T, Marcantoni A, Grosso E, Tarsitano A, Battaglia S, Blengio F, De Martino I, Valerini S, Vecchio S, Richetti A, **Deantonio L**, Martucci F, Grammatica A, Ravanelli M, Ibrahim T, Caruso D, Locati LD, Orlandi E, Bossi P, Mainardi L, Licitra LF. Prognostic role of pre-treatment magnetic resonance imaging (MRI)-based radiomic analysis in effectively cured head and neck squamous cell carcinoma (HNSCC) patients. *Acta Oncol.* 2021 Sep;60(9):1192-1200.
41. Lopes de Castro C, Fundowicz M, Roselló A, Jové J, **Deantonio L**, Aguiar A, Pisani C, Villà S, Boladeras A, Konstanty E, Kruszyna-Mochalska M, Milecki P, Jurado-Bruggeman D, Lencart J, Modolell I, Muñoz-Montplet C, Aliste L, Torras MG, Puigdemont M, Carvalho L, Krengli M, Guedea F, Malicki J. Results of the IROCA international clinical audit in prostate cancer radiotherapy at six comprehensive cancer centres. *Sci Rep.* 2021 Jun 10;11(1):12323.
42. **Deantonio L**, Vigna L, Paolini M, Matheoud R, Sacchetti GM, Masini L, Loi G, Brambilla M, Krengli M. Application of a smart [18F] FDG-PET adaptive threshold segmentation algorithm for the biological target volume delineation in head and neck cancer. *Q J Nucl Med Mol Imaging.* 2022 Mar 3. doi: 10.23736/S1824-4785.22.03405-7. Online ahead of print.
43. **Deantonio L**, Garo ML, Paone G, Valli MC, Cappio S, La Regina D, Cefali M, Palmarocchi MC, Vannelli A, De Dosso S. 18F-FDG PET Radiomics as Predictor of Treatment Response in Oesophageal Cancer: A Systematic Review and Meta-Analysis. *Front Oncol.* 2022 Mar 15;12:861638.
44. Lupattelli M, Tini P, Nardone V, Aristei C, Borghesi S, Maranzano E, Anselmo P, Ingrosso G, **Deantonio L**, di Monale E Bastia MB. Stereotactic radiotherapy for brain oligometastases. *Rep Pract Oncol Radiother.* 2022 Mar 22;27(1):15-22.
45. Najafi M, Jahanbakhshi A, Gomar M, Iotti C, Giaccherini L, Rezaie O, Cavallieri F, **Deantonio L**, Bardoscia L, Botti A, Sardaro A, Cozzi S, Ciammella P. State of the Art in Combination Immuno/Radiotherapy for Brain Metastases: Systematic Review and Meta-Analysis. *Curr Oncol.* 2022 Apr 22;29(5):2995-3012.
46. Cozzi S, Augugliaro M, Ciammella P, Botti A, Trojani V, Najafi M, Blandino G, Ruggieri MP, Giaccherini L, Ali E, Iori F, Sardaro A, Finocchi Ghersi S, **Deantonio L**, Gutierrez Miguelez C, Iotti C, Bardoscia L. The Role of Interstitial Brachytherapy for Breast Cancer Treatment: An Overview of Indications, Applications, and Technical Notes. *Cancers (Basel).* 2022 May 23;14(10):2564.

Author book chapter:

Krengli M, Zanoletti E, **Deantonio L**. (2018) Radiation Therapy in Acoustic Neuroma. In: Wenz F. (eds) *Radiation Oncology*. Springer, Cham. DOI:10.1007/978-3-319-52619-5_11-1.

H.W. Strauss et al. (eds.), in *Nuclear Oncology, Teaching cases in nuclear oncology* Springer International Publishing Switzerland 2016 DOI 10.1007/978-3-319-26067-9_69-1

She is author and co-author of more than 70 abstracts in Congress Proceedings and she presented her scientific work as oral communication in several congresses.

She is reviewer for several peer-reviewed journals:

Tumori Journal, International Journal Radiation Biology, Journal of Biomedical Research, Reports of Practical Oncology & Radiotherapy, International Journal of Surgery Protocols, Journal of Men's Health, Journal of Perinatology and Pediatrics; Frontiers in Oncology; Cancers

ADDITIONAL INFORMATION

Affiliations:

SAKK Swiss Group for Clinical Cancer Research

SASRO Swiss Association of Radiation Oncologist

ESTRO European Society for Therapeutic Radiology and Oncology

AIRO Associazione Italiana di Radioterapia Oncologica

Bellinzona 25.06.2022

