

# VIRGINIA LIBERINI



## PERSONAL INFORMATION

---

**Name:** Virginia  
**Surname:** Liberini

**Date of birth:** 21<sup>th</sup> November 1983

**Mailing Address:** Via Pietro Palmieri 28 - 10138, Turin (Italy)

**Business Address:** S.C.D.U. Medicina Nucleare U – Chief Prof. D. Deandreis  
A.O.U. “Città della Salute e della Scienza” - University of Turin, Italy  
Corso Dogliotti 14 – 10126, Turin (Italy)

**Telephone:** (+39) 347 1965278

**E-mail:** [v.liberini@gmail.com](mailto:v.liberini@gmail.com); [virginia.liberini@unito.it](mailto:virginia.liberini@unito.it)

## EDUCATION

---

### High School Diploma – Classical Studies

*Jul 2002*

Liceo Classico “E. Q. Visconti”  
Piazza del Collegio Romano, 4 – 00186, Rome, Italy  
Vote: 89/100

### School of Medicine – Doctor of Medicine

*27 Jan 2012*

S.C.D.U. Nuclear Medicine U – Chief Prof. R. Massa  
A.O.U. “Umberto I di Roma” - University of Rome “La Sapienza” - Rome, Italy  
- Thesis Title: “*Role of Cardiac <sup>123</sup>I-MIBG Scintigraphy for the evaluation of patients affected by movement disorder.*”  
- Advisor: Prof. R. Massa and Prof. G. De Vincentis  
- Vote: 110/110 cum laude

### License to practice Medicine and Surgery

*Jul 2012*

Clinical training: University of Rome “La Sapienza” - Rome, Italy

### MD Board Certification for the city of Rome – Italy

*26 Jul 2012 - 15 May 2017*

“Albo dei Medici e Chirurghi di Roma”  
Number of registration: 59689

### MD Board Certification for the city of Turin – Italy

*15 May 2017 - Present*

“Albo dei Medici e Chirurghi di Torino”  
Number of registration: 24131

### Certificate of “Advanced Cardiovascular Life Support Course” (ACLS)

*6 Feb 2018*

"America Heart Association" (AHA) and "Società Italiana di Medicina d'Emergenza e Urgenza" (SIMEU)  
A.O.U. “Città della Salute e della Scienza” - Turin – Italy  
Certificate Number: f8aaff6c80be

**Board certified in Nuclear Medicine**

26 Jul 2018

S.C.D.U. Nuclear Medicine U– Chief Prof. G. Bisi

A.O.U. “Città della Salute e della Scienza” - University of Turin “UNITO” - Turin, Italy

- Thesis Title: “ *Preliminary study of heterogeneity on neuroendocrine tumors on PET/CT with <sup>68</sup>Ga-DOTATOC: a potential prognostic aid.* ”

- Advisor: Prof. G. Bisi and Prof. D. Deandreis

- Vote: 70/70 cum laude

**CURRENT POSITION**

---

**PhD Programe in Medical Physiopathology**

1 Nov 2019 - Present

Department of Medical Science – Chief Prof. F. Veglio

A.O.U. “Città della Salute e della Scienza” - University of Turin “UNITO” - Turin, Italy

Project: “ *Radiomics in Nuclear Medicine and hybrid imaging for heterogeneity of solid tumors: diagnostic and prognostic potential* ” - Tutor: Prof. D. Deandreis (Chair of Nuclear Medicine Unit)**Attending Nuclear Medicine Physician (permanent position)**

9 June 2021 - Present

Department of Nuclear Medicine – Chief Dr. A. Papaleo

Nuclear Medicine Department, S. Croce e Carle Hospital, Cuneo, Italy

**PROFESSIONAL EXPERIENCE**

---

**Radiology - Undergraduate Training**

Mar 2007

Position: Student

A.O.U. “Umberto I di Roma” - University of Rome “La Sapienza” - Rome, Italy

Prof. R. Passariello

**Gastroenterology - Undergraduate Training**

Apr 2007

Position: Student

A.O.U. “Umberto I di Roma” - University of Rome “La Sapienza” - Rome, Italy

Prof. M. Merli

**Endocrinology - Undergraduate Training**

May 2007

Position: Student

A.O.U. “Umberto I di Roma” - University of Rome “La Sapienza” - Rome, Italy

Prof. V. Bonifacio

**Day Surgery - Undergraduate Training**

Sep 2007 – Dec 2007

Position: Student

A.O.U. “Umberto I di Roma” - University of Rome “La Sapienza” - Rome, Italy

Prof. P. Palumbo

**IFMSA-NL Winter School 2007-2008 – “Organ Transplantation”**

30 Dec 2007 - 5 Jan 2008

EMSA and Universiteit Leiden – Leiden, Netherlands

**Internal Medicine - Undergraduate Training**

Mar 2008 – Dec 2008

Position: Student

A.O.U. “Umberto I di Roma” - University of Rome “La Sapienza” - Rome, Italy

Prof. A. Amoroso

- Nuclear Medicine - Undergraduate Training** *Feb 2009 – Jan 2012*  
 Position: Student  
 A.O.U. “Umberto I di Roma” - University of Rome “La Sapienza” - Rome, Italy  
 Prof. R. Massa
- Emergency Department Medical Internship** *Mar 2012 – Mar 2013*  
 Position: MD Volunteering  
 A.O.U. “Martini” - Turin, Italy  
 Chief M. Garrone
- Nuclear Medicine – MD Internship** *Oct 2012 – Apr 2013*  
 Position: MD fellowship  
 S.C.D.U. Nuclear Medicine U– Chief Prof. G. Bisi  
 A.O.U. “Città della Salute e della Scienza” - University of Turin “UNITO” - Turin, Italy
- Nuclear Medicine – Residency Internship** *Oct 2014 – Jan 2015*  
 Position: residency trainee  
 S.C.D.U. Nuclear Medicine – Chief Prof. V. Podio  
 A.O.U. “San Luigi Gonzaga” - University of Turin “UNITO” – Orbassano (TO), Italy
- Nuclear Medicine – Residency Internship** *Feb 2018 – Apr 2018*  
 Position: residency trainee  
 S.C.D.U. Nuclear Medicine – Chief Dr. E. Pellerito  
 A.O.U. “Mauriziano Umberto I” - Turin, Italy
- Nuclear Medicine – Residency Internship** *Aug 2013 – Aug 2018*  
 Position: residency trainee  
 S.C.D.U. Nuclear Medicine U– Chief Prof. G. Bisi  
 A.O.U. “Città della Salute e della Scienza” - University of Turin “UNITO” - Turin, Italy
- ESMIT/EANM Winter School** *23-25 Feb 2018*  
**Cardiovascular Track (Circle 1) and Oncology Track (Circle 2)**  
 University of Bergamo - Bergamo, Italy
- Trialect sponsored Nuclear Medicine Hybrid Methods and Theranostics Traineeship** *Aug 2018*  
 Position: Visiting Postgraduate Fellowship  
 Department of Nuclear Medicine - University Hospital of Aachen  
 Uniklinik RWTH – Aachen, Germany  
 Chief Prof. F. M. Mottaghy
- Research Fellowship at University of Turin, Italy** *Feb 2019 – Apr 2019*  
 Project “*Clinical impact of 68Ga DOTATOC PET/CT in neuroendocrine tumors: a radiomic approach*”  
 Division of Nuclear Medicine, Turin, Italy
- Doctor on duty (Servizio di Continuità Assistenziale ASL Biella)** *Oct 2018 – Apr 2019*  
 Ente pubblico ASL di Biella – Mongrando - Italy  
 ufficio.protocollo@cert.aslbi.piemonte.it
- The ENETS CoE Training Fellowship 2019** *May 2019 - Aug 2019*

Department of Nuclear Medicine - University Hospital of Zurich – Zurich, Switzerland  
Chief Prof. P. A. Kaufmann

**Doctor on duty (Servizio di Continuità Assistenziale ASL TO4)**

Nov 2019 – Dec 2019

Ente pubblico ASL TO4 – Leinì - Italy  
direzione.generale@pec.aslto4.piemonte.it

**Researcher in Nuclear Medical**

Sept 2020 – Nov 2020

Department of Nuclear Medicine - University Hospital of Zurich – Zurich, Switzerland  
Chief Prof. P. A. Kaufmann

**Attending Nuclear Medicine Physician (temporary position)**

April 2021 – May 2021

Research project on “Radiomic in Lung Cancer based on PET images”  
Nuclear Medicine, Central Hospital Bolzano, 39100 Bolzano, Italy  
Chief Dr. M. Farsad

## RESEARCH PAPERS

---

### PAPERS PUBLISHES:

- Balma M. et al. *The role of theragnostics in breast cancer: a systematic review of the last 12 years.* *In press*
- Liberini V. et al. *Radiomics and artificial intelligence in prostate cancer: new tools for molecular hybrid imaging and theragnostics.* Eur Radiol Exp. 2022 Jun 15;6(1):27. doi: 10.1186/s41747-022-00282-0. PMID: 35701671; PMCID: PMC9198151.
- Ceci F. et al. *Event-free survival after 68 Ga-PSMA-11 PET/CT in recurrent hormone-sensitive prostate cancer (HSPC) patients eligible for salvage therapy.* Eur J Nucl Med Mol Imaging. 2022 Jul;49(9):3257-3268. doi: 10.1007/s00259-022-05741-9. Epub 2022 Feb 26. PMID: 35217883; PMCID: PMC9250462.
- Balma M. et al. *Non-conventional and Investigational PET Radiotracers for Breast Cancer: A Systematic Review.* Front Med (Lausanne). 2022 Apr 12;9:881551. doi: 10.3389/fmed.2022.881551. PMID: 35492341; PMCID: PMC9039137.
- Thuillier P. et al. *Prognostic value of whole-body PET volumetric parameters extracted from 68Ga-DOTATOC-PET/CT in well-differentiated neuroendocrine tumors.* J Nucl Med. 2022 Jul;63(7):1014-1020. doi: 10.2967/jnumed.121.262652. Epub 2021 Nov 5. PMID: 34740949.
- Husmann L. et al. *Staging of Alveolar Echinococcosis with PET/CT: Prediction of Benzimidazole Therapy Duration in Inoperable Patients.* Sci Rep. 2022 Jul 6;12(1):11392. doi: 10.1038/s41598-022-15641-5. PMID: 35794149; PMCID: PMC9259695.
- Liberini V. et al. *Predictive value of baseline [18F]FDG PET/CT for response to systemic therapy in patients with advanced melanoma.* J Clin Med. 2021 Oct 27;10(21):4994. doi: 10.3390/jcm10214994. PMID: 34768517; PMCID: PMC8584809.

- Liberini V. et al. ***BSREM for brain metastases detection with [18F]FDG PET/CT in lung cancer patients.*** J Digit Imaging. 2022 Jun;35(3):581-593. doi: 10.1007/s10278-021-00570-y. Epub 2022 Feb 25. PMID: 35212859; PMCID: PMC9156589.
- Liberini V. et al. ***Histopathological Features of Parathyroid Adenoma and [18F]F-Choline Uptake in PET/MR of Primary Hyperparathyroidism.*** Clin Nucl Med. 2022 Feb 1;47(2):101-107. doi: 10.1097/RLU.0000000000003987. PMID: 35006103.
- Liberini V. et al. ***NSCLC Biomarkers to Predict Response to Immunotherapy with Checkpoint Inhibitors (ICI): From the Cells to In Vivo Images.*** Cancers (Basel). 2021 Sep 10;13(18):4543. doi: 10.3390/cancers13184543. PMID: 34572771; PMCID: PMC8464855.
- Messerli M. et al. ***Clinical evaluation of data-driven respiratory gating for PET/CT in an oncological cohort of 149 patients: impact on image quality and patient management.*** Br J Radiol. 2021 Oct 1;94(1126):20201350. doi: 10.1259/bjr.20201350. Epub 2021 Sep 14. PMID: 34520673.
- Liberini V. et al. ***Improved detection of in-transit metastases of malignant melanoma with BSREM reconstruction in digital [18 F]FDG PET/CT.*** Eur Radiol. 2021 Oct;31(10):8011-8020. doi: 10.1007/s00330-021-07852-7. Epub 2021 Mar 25. PMID: 33768288.
- Liberini V. et al. ***The Future of Cancer Diagnosis, Treatment and Surveillance: A Systemic Review on Immunotherapy and Immuno-PET Radiotracers.*** Molecules. 2021 Apr 11;26(8):2201. doi: 10.3390/molecules26082201. PMID: 33920423; PMCID: PMC8069316.
- Thuillier P. et al. ***Diagnostic value of both conventional PET parameters and radiomic features extracted from <sup>18</sup>F-FDG PET/CT for histologic subtype classification and characterization of lung neuroendocrine neoplasms.*** Biomedicines. 2021 Mar 10;9(3):281. doi: 10.3390/biomedicines9030281. PMID: 33801987; PMCID: PMC8001140.
- Liberini V. et al. ***COVID-19 and Aspiration Pneumonia: Similar Pulmonary Findings with Different Diagnoses-a Pitfall in [18F]FDG PET/CT.*** SN Compr Clin Med. 2021 Jul 29;1-4. doi: 10.1007/s42399-021-01030-y. Epub ahead of print. PMID: 34345767; PMCID: PMC8321507.
- Liberini V. et al. ***The Challenge of Evaluating Response to Peptide Receptor Radionuclide Therapy in Gastroenteropancreatic Neuroendocrine Tumors: The Present and the Future.*** Diagnostics (Basel). 2020 Dec 12;10(12):1083. doi: 10.3390/diagnostics10121083.
- Liberini V. et al. ***Impact of segmentation and discretization on radiomic features in <sup>68</sup>Ga-DOTA-TOC PET/CT images of neuroendocrine tumor.*** EJNMMI Phys. 2021 Feb 27;8(1):21. doi: 10.1186/s40658-021-00367-6. PMID: 33638729; PMCID: PMC7914329.
- Liberini V. et al. ***<sup>68</sup>Ga-DOTATOC PET/CT based radiomic analysis and PRRT outcome: a preliminary evaluation based on an exploratory radiomic analysis.*** Front Med (Lausanne). 2021 Jan 26;7:601853. doi: 10.3389/fmed.2020.601853.
- Liberini V. et al. ***Impact of PET data driven respiratory motion correction of <sup>68</sup>Ga-DOTATATE PET/CT for differentiating neuroendocrine tumors (NET) and intrapancreatic accessory spleens (IPAS).*** Sci Rep 11, 2273 (2021). <https://doi.org/10.1038/s41598-020-80855-4>

- Nervo A. et al. ***Bone metastases from differentiated thyroid carcinoma: current knowledge and open issues.*** J Endocrinol Invest. 2020 Aug 3. doi: 10.1007/s40618-020-01374-7.
- Polverari G. et al. ***<sup>18</sup>F-FDG PET/CT Parameters and Radiomics Features Analysis in Advanced NSCLC treated with Immunotherapy as Predictors of Therapy Response and Survival.*** Cancers 2020, 12, 1163; doi:10.3390/cancers12051163.
- Finessi M. et al. ***Major limits of dosimetrically determined activities in advanced differentiated thyroid carcinoma.*** Q J Nucl Med Mol Imaging. 2019 Sep; 63 (3): 258-266. doi: 10.23736/S1824-4785.19.03211-4.
- Liberini V. et al. ***<sup>68</sup>Ga-DOTA-TOC PET/CT: a typical case of von Hippel-Lindau disease.*** Clin Nucl Med. 2019 Feb; 44 (2): 125-126. doi: 10.1097/RLU.0000000000002395.
- I. Motta et al. ***Undetectable antimicrobial plasma concentrations in an HIV-positive patient with protein-losing enteropathy and chylothorax during Mycobacterium genavense and Leishmania abdominal infections.*** J. Antimicrob Chemother, 2018 Feb 1;73(2):546-548. doi: 10.1093/jac/dkx385.

#### ABSTRACT PUBLISHES:

- Liberini V. et al. ***Development of 3D-printed inserts for NEMA-phantom simulating necrotic tumor lesions for the evaluation of reproducibility of PET/CT radiomic features*** Abstracts book of the Annual Congress of the European Association of Nuclear Medicine – EAMN Annual Congress 2022 - TROP (Top Rated Oral Presentation) Session: Radiomics - Oral Presentation. Annual Congress of the European Association of Nuclear Medicine October 15-19, 2022 Barcelona, Spain. Eur J Nucl Med Mol Imaging 49 (Suppl 1), 1–751 (2022). <https://doi.org/10.1007/s00259-022-05924-4>
- Albano D. et al. ***[<sup>18</sup>F]FDG PET/CT role in FUO: an Italian multicentric study*** Abstracts book of the Annual Congress of the European Association of Nuclear Medicine – EAMN Annual Congress 2022. Annual Congress of the European Association of Nuclear Medicine October 15-19, 2022 Barcelona, Spain. Eur J Nucl Med Mol Imaging 49 (Suppl 1), 1–751 (2022). <https://doi.org/10.1007/s00259-022-05924-4>
- Evangelista L. et al. ***ITA-IMMUNO-PET: The Role Of FDG PET/CT In The Evaluation Of Response To Immunotherapy In Patient (PTS) With Lung Cancer (LG) And Malignant Melanoma (MM).*** Abstracts book of the Annual Congress of the European Association of Nuclear Medicine – EAMN Annual Congress 2022. Annual Congress of the European Association of Nuclear Medicine October 15-19, 2022 Barcelona, Spain. Eur J Nucl Med Mol Imaging 49 (Suppl 1), 1–751 (2022). <https://doi.org/10.1007/s00259-022-05924-4>
- Albano D. et al. ***<sup>18</sup>F-FDG PET/CT role in FUO: an Italian Multicentric Study.*** 15th National Congress of the Italian Association of Nuclear Medicine and Molecular Imaging (AIMN). Clin Transl Imaging 10 (Suppl 1), 1–111 (2022). <https://doi.org/10.1007/s40336-022-00492-x>
- Balma M. et al. ***Interobserver agreement of [<sup>18</sup>F]PSMA-1007 PET/CT images according to the E-PSMA criteria in prostate cancer (PCA) patients with biochemical recurrence after primary surgery.*** 15th National Congress of the Italian Association of Nuclear Medicine and Molecular Imaging (AIMN). Clin Transl Imaging 10 (Suppl 1), 1–111 (2022). <https://doi.org/10.1007/s40336-022-00492-x>

- Nicolotti D.G. et al. ***[18F]PSMA-1007 PET/CT impact on decision-making strategies for prostate cancer patients with biochemical recurrence at low PSA values after primary surgery: a retrospective preliminary evaluation.*** 15th National Congress of the Italian Association of Nuclear Medicine and Molecular Imaging (AIMN). Clin Transl Imaging 10 (Suppl 1), 1–111 (2022). <https://doi.org/10.1007/s40336-022-00492-x>
- Buschiazzo A. et al. ***Monitoring treated brain neoplasms patients with 11C-MET PET and MRI: a retrospective sampling of discrepancies in evaluating treatment response or identifying focal relapse.*** 15th National Congress of the Italian Association of Nuclear Medicine and Molecular Imaging (AIMN). Clin Transl Imaging 10 (Suppl 1), 1–111 (2022). <https://doi.org/10.1007/s40336-022-00492-x>
- Evangelista L. et al. ***ITA-IMMUNO-PET: comparison between CT and FDG PET/CT in the evaluation of response to immunotherapy and their impact on the prognosis.*** 15th National Congress of the Italian Association of Nuclear Medicine and Molecular Imaging (AIMN). Clin Transl Imaging 10 (Suppl 1), 1–111 (2022). <https://doi.org/10.1007/s40336-022-00492-x>
- Bianchi A. et al. ***ITA-IMMUNO-PET: suspected adverse events correlated to immunotherapy assessed by FDG PET/CT.*** 15th National Congress of the Italian Association of Nuclear Medicine and Molecular Imaging (AIMN). Clin Transl Imaging 10 (Suppl 1), 1–111 (2022). <https://doi.org/10.1007/s40336-022-00492-x>
- Evangelista L. et al. ***ITA-IMMUNO-PET: the prognostic role of baseline FDG PET/CT in patients candidates to immunotherapy.*** 15th National Congress of the Italian Association of Nuclear Medicine and Molecular Imaging (AIMN). Clin Transl Imaging 10 (Suppl 1), 1–111 (2022). <https://doi.org/10.1007/s40336-022-00492-x>
- De Rimini M.L. et al. ***ITA-IMMUNO-PET: the role of FDG PET/CT in the evaluation of response to immunotherapy.*** 15th National Congress of the Italian Association of Nuclear Medicine and Molecular Imaging (AIMN). Clin Transl Imaging 10 (Suppl 1), 1–111 (2022). <https://doi.org/10.1007/s40336-022-00492-x>
- Laudicella R. et al. ***[68Ga]DOTATOC PET/CT machine-learning applications in the prediction of response in GEP-NETS undergoing [177Lu]DOTATOC PRRT: the “THERAGNOMICS” concept.*** 15th National Congress of the Italian Association of Nuclear Medicine and Molecular Imaging (AIMN). Clin Transl Imaging 10 (Suppl 1), 1–111 (2022). <https://doi.org/10.1007/s40336-022-00492-x>
- Liberini V. et al. ***Interobserver agreement for [18F]F-PSMA-1007 PET/CT images according to the E-PSMA criteria in prostate cancer patients.*** Journal of Nuclear Medicine. Vol. 63, Issue supplement 2. June 1, 2022
- Laudicella R. et al. ***[68Ga]DOTATOC PET/CT machine-learning applications in the prediction of response in GEP-NETS undergoing [177Lu]DOTATOC PRRT: the “THERAGNOMICS” concept.*** Journal of Nuclear Medicine. Vol. 63, Issue supplement 2. June 1, 2022
- Ceci F. et al. ***A0200 - Event-Free survival after 68Ga-PSMA-11 PET/CT in recurrent Hormone-Sensitive Prostate Cancer (HSPC) patients eligible for salvage therapy.*** European Urology, Volume 81, Supplement 1, 2022, Page S312, ISSN 0302-2838, [https://doi.org/10.1016/S0302-2838\(22\)00287-1](https://doi.org/10.1016/S0302-2838(22)00287-1)

- Liberini V. et al. ***Parathyroid Histopathology and [18F]F-Choline Uptake in PET/MR in Primary Hyperparathyroidism.*** Abstracts book of the Annual Congress of the European Association of Nuclear Medicine – EAMN Annual Congress 2021 - TROP (Top Rated Oral Presentation) Session: Nuclear Medicine Imaging and Therapy in Thyroid and Parathyroid Disorders. European Association of Nuclear Medicine October 20-23, 2021 Virtual. Eur J Nucl Med Mol Imaging 48 (Suppl 1), 1–648 (2021). <https://doi.org/10.1007/s00259-021-05547-1>
- Thuillier P. et al. ***Prognostic value of whole-body PET volumetric parameters extracted from 68Ga-DOTATOC-PET/CT in well-differentiated neuroendocrine tumors.*** Abstracts book of the Annual Congress of the European Association of Nuclear Medicine – EAMN Annual Congress 2021 - Clinical Oncology Track – TROP (Top Rated Oral Presentation) Session: Neuroendocrine- Oral Presentation. European Association of Nuclear Medicine October 20-23, 2021 Virtual. Eur J Nucl Med Mol Imaging 48 (Suppl 1), 1–648 (2021). <https://doi.org/10.1007/s00259-021-05547-1>
- Liberini V. et al. ***Predictive value of baseline [18F]FDG PET/CT for response to systemic therapy in patients with advanced melanomas.*** Abstracts book of the Annual Congress of the European Association of Nuclear Medicine – EAMN Annual Congress 2021 - Clinical Oncology Track - TROP (Top Rated Oral Presentation) Session: Gynaecological and Melanoma - Oral Presentation. European Association of Nuclear Medicine October 20-23, 2021 Virtual. Eur J Nucl Med Mol Imaging 48 (Suppl 1), 1–648 (2021). <https://doi.org/10.1007/s00259-021-05547-1>
- Liberini V. et al. ***BSREM for Brain Metastases Detection with [18F]FDG PET/CT in Lung Cancer Patients.*** Abstracts book of the Annual Congress of the European Association of Nuclear Medicine – EAMN Annual Congress 2021 - Cutting Edge Science Track - Featured Session: PET Reconstructions and Corrections - Oral presentation. European Association of Nuclear Medicine October 20-23, 2021 Virtual. Eur J Nucl Med Mol Imaging 48 (Suppl 1), 1–648 (2021). <https://doi.org/10.1007/s00259-021-05547-1>
- Thuillier P. et al. ***Valeur pronostique des paramètres volumétriques corps entier extraits de la TEP/TDM au 68Ga-DOTATOC dans les tumeurs neuroendocrines bien différenciées.*** Annales d'Endocrinologie, Volume 82, Issue 5, 2021, Page 274, ISSN 0003-4266, <https://doi.org/10.1016/j.ando.2021.08.056>.
- Thuillier P. et al. ***Valeur prédictive des paramètres volumétriques corps entier et osseux de la 18F-FDG-TEP/TDM préthérapeutique dans la réponse au Lenvatinib chez les patients traités pour un cancer différencié de la thyroïde réfractaire à l'iode.*** Annales d'Endocrinologie, Volume 81, Issue 4, 2020, Page 251, ISSN 0003-4266, <https://doi.org/10.1016/j.ando.2020.07.293>.
- Liberini V. et al. ***Impact of PET data driven respiratory motion correction of 68Ga-DOTATATE PET/CT for differentiating neuroendocrine tumors (NET) and intrapancreatic accessory spleens (IPAS).*** EJNMMI. September 2020; vol 47 (suppl 1): 1-753. Abstracts book of the Annual Congress of the European Association of Nuclear Medicine – Oral presentation.
- Polverari G. et al. ***18F-FDG PET Parameters and Radiomics Features Analysis in Advanced NSCLC treated with Immunotherapy as Predictors of Therapy Response and Survival.*** EJNMMI. September 2020; vol 47 (suppl 1): 1-753. Abstracts book of the Annual Congress of the European Association of Nuclear Medicine – Oral presentation.
- Califaretti E. et al. ***18F-FDG PET/CT whole body volumetric evaluation in iodine-refractory differentiated thyroid cancer as predictors of Lenvatinib response.*** EJNMMI. September 2020; vol



- 47 (suppl 1): 1-753. Abstracts book of the Annual Congress of the European Association of Nuclear Medicine – Oral presentation.
- Liberini V. et al. ***Peptide Receptor Radionuclide Therapy (PRRT) Outcome Prediction in Neuroendocrine Tumors (NET): Could Radiomic Features Analysis of 68Ga-DOTATOC PET/CT Have a Roll?*** Neuroendocrinology 2020. Vol. 110 (suppl 1). Abstracts of the 17<sup>th</sup> Annual ENETS Conference for the Diagnosis and Treatment of Neuroendocrine Tumor Disease.
  - Liberini V. et al. ***Robustness of Radiomic Features in 68Ga-DOTATOC PET/CT: A Monocentric Experience for Neuroendocrine Tumors.*** Neuroendocrinology 2020. Vol. 110 (suppl 1). Abstracts of the 17<sup>th</sup> Annual ENETS Conference for the Diagnosis and Treatment of Neuroendocrine Tumor Disease.
  - Liberini V. et al. ***A Study of Radiomic Features Robustness for 68Ga-DOTATOC PET/CT in Neuroendocrine Tumors.*** EJNMMI. October 2019; vol 46 (suppl 1): 1-952. Abstracts book of the Annual Congress of the European Association of Nuclear Medicine – Oral Presentation.
  - Nicolotti D. et al. ***Impact of late pelvic acquisition on 68Ga-PSMA-11 PET/CT positivity rate and inter-rater reliability analysis.*** EJNMMI. October 2019; vol 46 (suppl 1): 1-952. Abstracts book of the Annual Congress of the European Association of Nuclear Medicine.
  - Ceci F. et al. ***68Ga-PSMA-11 PET/CT in hormone-naïve recurrent prostate cancer: prospective, single-center study in patients eligible for salvage therapy.*** EJNMMI. October 2019; vol 46 (suppl 1): 1- 952. Abstracts book of the Annual Congress of the European Association of Nuclear Medicine.
  - Ceci F. et al. ***Salvage radiotherapy guided by 68Ga-PSMA-11 PET/CT in patients with biochemical persistence (BCP) after radical prostatectomy for prostate cancer.*** EJNMMI. October 2019; vol 46 (suppl 1): 1-952. Abstracts book of the Annual Congress of the European Association of Nuclear Medicine.
  - Finessi M. et al. ***Comparison of 68Ga DOTATOC PET/CT with morphological imaging in staging of neuroendocrine tumors.*** EJNMMI. October 2019; vol 46 (suppl 1): 1-952. Abstracts book of the Annual Congress of the European Association of Nuclear Medicine.
  - Pilati E. et al. ***Impact of 68Ga DOTATOC PET/CT in the Therapeutic Management of Neuroendocrine Tumors.*** EJNMMI. October 2019; vol 46 (suppl 1): 1-952. Abstracts book of the Annual Congress of the European Association of Nuclear Medicine.
  - Liberini V. et al. ***Can texture analysis be used for a vivo “imaging biopsy” in neuroendocrine tumors? A first step feasibility study with 68Ga-DOTATOC PET/CT.*** Neuroendocrinology 2019; 108 (suppl 1): I-X. Abstracts of the 16<sup>th</sup> Annual ENETS Conference for the Diagnosis and Treatment of Neuroendocrine Tumor Disease.
  - Pilati E. et al. ***Impact of 68Ga DOTATOC PET/CT in the therapeutic management of neuroendocrine tumors.*** Clin Transl Imaging (2019), vol 7 (Supp 1): S1-S138. AIMN XIV Annual Congress Abstract.
  - Liberini V. et al. ***Can texture analysis be used for a vivo “imaging biopsy” in neuroendocrine tumors? A first step feasibility study with 68Ga-DOTATOC PET/CT.*** Clin Transl Imaging (2019), vol 7 (Supp 1): S1-S138. AIMN XIV Annual Congress Abstract – selected for highlight.

- Liberini V. et al. *A strange case of multiple fractures: a case report*. Clin Transl Imaging (2017), vol 5 (Suppl 1): S1–S153. AIMN XIII Annual Congress Abstract.
- Liberini V. et al. *The role of lymphoscintigraphy in the diagnosis of lymphocele after renal transplant: a case report*. Clin Transl Imaging (2017), vol 5 (Suppl 1): S1–S153. AIMN XIII Annual Congress Abstract.
- Balma M. et al. *The role of <sup>123</sup>I-FP- CIT SPECT in the study of the serotonergic system in amyotrophic lateral sclerosis: a potential aid in understanding etiopathogenesis*. Clin Transl Imaging (2017), vol 5 (Suppl 1): S1–S153. AIMN XIII Annual Congress Abstract.
- Galati A. et al. *FP- CIT gender differences. Removing the background to focus on the target*. Clin Transl Imaging (2017), vol 5 (Suppl 1): S1–S153. AIMN XIII Annual Congress Abstract.

## BOOK PUBLISHES:

- Liberini V., Finessi M. et Deandreis D. (2021) **A Patient with Follicular Thyroid Cancer and a Painful Bone Metastases at Risk for Pathologic Fracture**. *Chapter pp 275-295*. Thyroid Cancer. A case-based approach. II edition. Editors: Giorgio Grani, David S. Cooper, Cosimo Durante. Springer. [https://doi.org/10.1007/978-3-030-61919-0\\_31](https://doi.org/10.1007/978-3-030-61919-0_31)
- Finessi M., Liberini V. et Deandreis D. (2020) **Cancer staging with 18F-FDG PET/CT in hyperglycemic patients**. *Chapter pp 641-654*. Obesity and Diabetes. Editors: Faintuch J., Faintuch S. (eds) Springer, Cham. [https://doi.org/10.1007/978-3-030-53370-0\\_47](https://doi.org/10.1007/978-3-030-53370-0_47)

## GRANTS

---

- IFMSA-NL Winter School 2007-2008 – “Organ Transplantation”
- ESMIT/EANM Winter School 2018
- Trialect sponsored Nuclear Medicine Hybrid Methods and Theranostics Traineeship 2018
- The ENETS CoE Training Fellowship 2019

## TEACHING ACTIVITIES

---

**Teacher as collaborator of Prof. D. Deandreis**

*01-23 March 2021*

Subject: RESEARCH 4 (Research Implementation)

Course title: [f007-c205] laurea spec. in scienze delle professioni sanitarie tecniche diagnostics - in Turin)

Organiser: University of Turin (address: [ateneo@pec.unito.it](mailto:ateneo@pec.unito.it))

N. 10,00 teaching hours

[https://diagnostiche.campusnet.unito.it/do/corsi.pl/Show?\\_id=fqz8](https://diagnostiche.campusnet.unito.it/do/corsi.pl/Show?_id=fqz8)

## CONFERENCES (partecipant)

---

- 1<sup>st</sup> – 4<sup>th</sup> March 2013 "XI National Annual Congress - Associazione Italiana di Medicina Nucleare ed Imaging Molecolare (AIMN)" - Turin, Italy;
- 5<sup>th</sup> October 2013 "Management of the patient with heart failure: possible role of myocardial scintigraphy MIBG", Ospedale S. Croce, Cuneo, Italy;
- 26<sup>th</sup> - 27<sup>th</sup> February 2015 " Quantitative Tomographic SPECT and PET imaging for dosimetry at Voxel level in nuclear medical therapy", Rome, Italy;
- 16<sup>th</sup> – 19<sup>th</sup> April 2015 "XII National Annual Congress - Associazione Italiana di Medicina Nucleare ed Imaging Molecolare (AIMN)" - Rimini, Italy;
- 28<sup>th</sup> October 2015 "Improvement groups - Field training" of Rete Oncologica del Piemonte e della Valle d'Aosta, Turin, Italy;
- 19<sup>th</sup> January 2016 " From the prostate project of Turin to the prostate cancer unit", Università degli studi di Turin, Italy;
- 22<sup>th</sup> April 2016 "Improvement groups - Field training" of Rete Oncologica del Piemonte e della Valle d'Aosta, Turin, Italy;
- 10<sup>th</sup> May 2016 "Towards a standardization of the interpretation and reporting criteria of FDG-PET in lymphoma", Ospedale S. Croce di Cuneo, Italy;
- 6<sup>th</sup> – 7<sup>th</sup> October 2016 "Multimodal and Integrated Imaging in Cardiology", GICN, Brescia, Italy;
- 4<sup>th</sup> November 2016 " Towards a standardization of the interpretation and reporting criteria of FDGPET in lung cancer", Ospedale s. Croce di Cuneo, Italy;
- 3<sup>th</sup> December 2016 "MIND and BRAIN 2016. The colour of the Amyloid" - Museo del Tessuto di Prato, Italy;
- 1<sup>st</sup> April 2017 " Nuclear medical imaging in neurological diseases" - Turin, Italy;
- 26<sup>th</sup> May 2017 "Amyloid PET: practical aspects for an appropriate use in the current context" – Lilly Campus, Sesto Fiorentino, Italy;
- 13<sup>th</sup> June 2017 "3rd Milan NET Conference, a meeting among active italian tumor boards in neuroendocrine tumors"- Milan, Italy;
- 22<sup>th</sup> September 2017 "NET: network for innovation and development - Third edition" - Turin, Italy;
- 23<sup>th</sup> September 2017 "From clinical to cardiac imaging: analysis of anginal pain" - Nuovo Ospedale di Biella, Biella, Italy;
- 7<sup>th</sup> October 2017 "Introduction to the SPECT / CT basic course" – University of Turin, Turin, Italy;

- 28<sup>th</sup> October 2017 "Updates on Advanced Cardiology Imaging" - ICS Maugeri Spa SB I.R.C.C.S., Veruno, Italy;
- 11<sup>th</sup> November 2017 "III Nuclear Medicine Day in Milan: the diagnostic-therapeutic strategies of patients with neuroendocrine cancer" - IEO education, Milan, Italy;
- 7<sup>th</sup> – 9<sup>th</sup> March 2018 "II UNITO-POLITO Conference Series in Cancer Imaging of Cancer Dynamics", Turin, Italy;
- 28<sup>th</sup> March 2018 "Disputes in the Management of Prostate Recurrent Carcinoma" - Prof. P. Gontero, University of Turin, Turin, Italy;
- 5<sup>th</sup> April 2018 "PET and Radiotherapy in Hodgkin's Lymphoma" - Ospedale S. Croce di Cuneo, Italy;
- 3<sup>th</sup> October 2018 "Il ruolo del radium 223 nella pratica clinica: esperienze a confronto" c/o University of Turin, Turin, Italy;
- 23<sup>th</sup> November 2018 "NETfix project. Correct diagnostic-therapeutic approach in neuroendocrine tumors" FORUM pro s.r.l., A.O.U. "San Luigi Gonzaga" - University of Turin "UNITO" – Orbassano (TO), Italy
- 30<sup>th</sup> November 2018 "NET: network for innovation and development - fourth edition" Aretré, Turin, Italy;
- 6<sup>th</sup> – 8<sup>th</sup> March 2019 "The 16<sup>th</sup> Annual ENETS conference for the diagnosis and the treatment of neuroendocrine tumor disease" - ENETS, Barcelona, Spain;
- 11<sup>th</sup> March 2019 "RADIOMIC for the PERSON" - MZ congressi srl, IEO education, Milan, Italy;
- 29<sup>th</sup> March 2019 "VII EDIZIONE Neoplasie Neuroendocrine EXPERT OPINION" – Aula Magna – Università degli Studi di Brescia - Brescia, Italy.
- 12<sup>th</sup> – 16<sup>th</sup> October 2019 "Annual Congress of the European Association of Nuclear Medicine EANM" - Barcelona, Spain - – Oral Presentation
- 6<sup>th</sup> December 2019 "Visit to the GE Healthcare laboratory of Eindhoven", Eindhoven, Netherlands.
- 22<sup>th</sup> – 30<sup>th</sup> October 2020 "Annual Congress of the European Association of Nuclear Medicine EANM" – Web conference -
- 14<sup>th</sup>-15<sup>th</sup> April 2021. AIMN Webinar "FDG-PET NEI LINFOMI: APPROPRIATEZZA, INTERPRETAZIONE E REFERTAZIONE"
- 27<sup>th</sup>-28<sup>th</sup> April 2021. AIMN Webinar "PET/MR nella pratica clinica"
- 11<sup>th</sup> May 2021. AIMN Webinar "PSMA-PET nel cancro della prostata"
- 21<sup>th</sup> June 2021. AIMN Webinar "THE POWER OF FUNCTIONAL THINKING – Refertazione Amiloide"

- 24<sup>th</sup> June 2021. AIMN Webinar “THE POWER OF FUNCTIONAL THINKING – Refertazione DAT-DOPA”
- 28<sup>th</sup> June 2021. AIMN Webinar “THE POWER OF FUNCTIONAL THINKING – Refertazione FDG”
- 01<sup>th</sup> July 2021. AIMN Webinar “THE POWER OF FUNCTIONAL THINKING – Refertazione FDG vs FET oncologica”
- 20<sup>th</sup> – 23<sup>th</sup> October 2021 “Annual Congress of the European Association of Nuclear Medicine EANM” – Web conference
- 12<sup>th</sup> – 15<sup>th</sup> May 2022 "XV National Annual Congress - Associazione Italiana di Medicina Nucleare ed Imaging Molecolare (AIMN)" - Turin, Italy – Conference speaker
- 1<sup>st</sup> – 2<sup>nd</sup> April 2022 “ProSTIC Preceptorship 2022 – Melbourne, Australia” - Web conference
- 11<sup>th</sup> – 14<sup>th</sup> June 2022 “SNMMI 2022 Annual Meeting. Vancouver, BC, Canada” - Web conference

## **COURSES (partecipant)**

---

- 12<sup>th</sup> May 2007 "Theoretical-practical course on cutaneous suture techniques", Prof. N. Scuderi – University of Rome “La Sapienza”, Rome, Italy;
- 30<sup>th</sup> March 2012 "First aid course" - Confederazione Nazionale S.O.S "Angeli del Soccorso" University of Rome “Roma tre”, Rome, Italy;
- 7<sup>th</sup> - 9<sup>th</sup> November 2013 "XV Update Course - GICN 2013 - Italian cardiology nuclear group", Assisi, Italy;
- 19<sup>th</sup> September 2017 FAD AIMN course "Radiopharmaceuticals: updates in the diagnostic and therapeutic fields";
- 19<sup>th</sup> September 2017 FAD AIMN course "Imaging SPECT/CT";
- 28<sup>th</sup> – 30<sup>th</sup> September 2017 "Basic course in Nuclear Medicine in Neurology" - Intercontact Srl, Pesaro, Italy;
- 16<sup>th</sup> - 18<sup>th</sup> November 2017 "XVII Update Course - GICN 2017 - Italian cardiology nuclear group " Bologna, Italy;
- 9<sup>th</sup> September 2018 FAD AIMN course "Clinical cases in diagnostics and therapy";
- 11<sup>th</sup> September 2018 FAD AIMN course "Clinical applications of PET/MR in oncology: prostate cancer and brain tumors with in-depth coverage in radiotherapy";

- 12<sup>th</sup> September 2018 FAD AIMN course "Therapy in Nuclear Medicine: management of the patient with differentiated thyroid carcinoma";
- 13<sup>th</sup> September 2018 FAD AIMN course "Therapy in Nuclear Medicine: liver tumors and tumors neuroendocrine";
- 6<sup>th</sup> – 8<sup>th</sup> March 2019 “The postgraduate course at the 16<sup>th</sup> Annual ENETS conference for the diagnosis and treatment of neuroendocrine tumor disease” ENETS, Barcelona, Spain.
- 30<sup>th</sup> September 2019 - D-day 2019 doctoral school - Area Scienze della Vita e della Salute – UNITO.
- 29<sup>th</sup> and 30<sup>th</sup> November 2019 “PRIME Masterclass in Neuroendocrine Tumors. A multidisciplinary Interactive Workshop” Budapest, Hungary.
- 9<sup>th</sup>, 11<sup>th</sup> and 13<sup>th</sup> Dic 2019 "Bibliography and bibliometrics like pros" (Second Edition) – Doctoral School of the University of Turin – UNITO – Turin.
- 20<sup>th</sup> January 2020 “Teragnostica sfide di oggi e prospettive future” Turin, Italy.
- 30<sup>th</sup> Jan – 01<sup>th</sup> Feb 2020 “EANM FOCUS 3: Molecular Imaging and Theranostics in Neuroendocrine Tumours” EANM - Athens, Greece.
- 21<sup>th</sup>, 23<sup>th</sup>, 28<sup>th</sup> and 30<sup>th</sup> Sept 2020 "Open Science and FAIR Data" – Doctoral School of the University of Turin – UNITO – Turin.
- 31<sup>th</sup> March 2020 FAD AIMN course "Prostate cancer and the role of PSMA".
- 20<sup>th</sup> Decembr 2020 FAD AIMN course "PET imaging in the era of precision medicine: assessing response to target therapies".
- 20<sup>th</sup> Decembr 2020 FAD AIMN course "The Report in Nuclear Cardiology: the importance of communicating effectively".
- 20<sup>th</sup> Decembr 2020 FAD AIMN course "Role of nuclear medicine in infections/inflammations".
- 20<sup>th</sup> Decembr 2020 FAD AIMN course "Radiomics and Nuclear Medicine".
- 28<sup>th</sup> September – 1<sup>st</sup> October 2022 "Basic course in Nuclear Medicine in Neurology" - Intercontact Srl, Pesaro, Italy;

## RESEARCH ACTIVITY

---

**Physician Consultant for the Amyvid study “16E-AV-AVBE”**  
 Avid Radiopharmaceuticals, Philadelphia (United States)  
 Project work: read 40 Amyvid scans and evaluate 12 clinical reports.

*May 2017*

**Member of NextGEN ENETS – Working Group**

*Feb 2019 – Feb 2021*

## CLINICAL ACTIVITY

---

As part of clinical practice, I acquired the following skills:

- **Clinical applications in the field of PET/CT diagnostics** of the following radiopharmaceuticals:  $^{18}\text{F}$ -FDG,  $^{68}\text{Ga}$ -PSMA,  $^{68}\text{Ga}$ -DOTA-TOC;
- **Clinical applications in the field of conventional nuclear medicine**: Myocardial SPECT of stress perfusion and at rest, hepatic scintigraphy with  $^{99\text{m}}\text{Tc}$ -MAA, scintigraphy of the salivary glands, thyroid and parathyroid scintigraphy, lymphoscintigraphy for sentinel nodule research, bone scintigraphy, perfusional pulmonary scintigraphy, cerebral tomoscintigraphy with receptor tracer (DATSCAN), renal scintigraphy with  $^{99\text{m}}\text{Tc}$ -MAG-3 and  $^{99\text{m}}\text{Tc}$ -DMSA, scintigraphy with autologous labeled leukocytes;
- **Clinical applications in the field of radiometabolic therapy** with  $^{131}\text{I}$  in thyroid pathology, with  $^{223}\text{RaCl}_2$  in the treatment of bone metastases from prostate cancer, Zevalin in non-Hodgkin's lymphoma (NHL);
- **Labelling** of leucocytes with  $^{99\text{m}}\text{Tc}$ -HMPAO and of Zevalin.

## OTHER SKILLS

---

<b>Computer Languages</b>	Microsoft Office Package, LIFEx soft, SPM
<b>Languages</b>	Italian (Native), English (Fluent)

## REFERENCES

---

### **Désirée Deandreis**

Professor of Nuclear Medicine and Chair of the Division of Nuclear Medicine Department of Medical Sciences, University of Turin, AOU Città della Salute e della Scienza, Division of Nuclear Medicine, Turin, Italy.

### **Gianni Bisi**

Professor, Department of Medical Sciences, University of Turin, AOU Città della Salute e della Scienza, Division of Nuclear Medicine, Turin, Italy.

### **Martin W. Huellner**

PD and Senior Attending Physicians of Nuclear Medicine  
Department of Nuclear Medicine - University Hospital of Zurich – Zurich, Switzerland  
Chair Prof. P. A. Kaufmann

### **Mohsen Farsad**

Chair of the Division of Nuclear Medicine Department, Central Hospital Bolzano, 39100 Bolzano, Italy

**In fede,  
Virginia Liberini**

*Virginia Liberini*

Cuneo, 03-10-2022