

## **ALLEGATO B**

### **UNIVERSITÀ DEGLI STUDI DI MILANO**

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## **Antonello Spinelli**

### **CURRICULUM VITAE**

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Personal website: [https://www.researchgate.net/profile/Antonello\\_Spinelli](https://www.researchgate.net/profile/Antonello_Spinelli)

#### **Undergraduate Education**

1999: M.Sc. degree in Physics of Bio-systems (Laurea in Fisica dei Biosistemi) at Insubria University (former University of Milan section of Como).

Thesis: Image quality physical parameters for stereotactic multi-modal planning

Supervisors: Prof. Alessandra Andreoni, Prof. Alberto Torresin.

#### **Post Graduate Education**

2000-2003: Ph.D. degree in Medical Physics, the Institute of Cancer Research, University of London, UK.

PhD Project title: Quantitative dynamic imaging using positron emission tomography. Supervisors: Prof. Robert J Ott, Prof. Gail R ter Haar.

Visited research centers: May-August 2003, Montreal Neurological Institute, McGill University, Canada.

2005-2009: School of Specialization in Medical Physics, Medical Physics Expert (MPE) degree University of Bologna, Italy.

Project title: Image reconstruction for phase contrast CT images.

Student Awards

Scholarships: 1994, 1995 Scholarship (based on university marks) from the Institute for University studies

of Milan.

### **Working Experience**

January-June 2004: Institute of Nuclear Medicine, University College London, UK.

January 2004-January 2005: Consultant for GE Healthcare Bio-Sciences, London, UK.

February 2005-November 2008: Small animals PET and CT imaging Physicist, Molecular imaging group, S. Orsola Hospital, Bologna, Italy.

December 2008-December 2013: Researcher, Medical Physics Department, San Raffaele Scientific Institute, Milan, Italy.

December 2013-Present: Researcher (permanent), Small animals optical and CT imaging research coordinator, Experimental Imaging Centre, San Raffaele Scientific Institute, Milan, Italy.

December 2017-Present: Member of the Preclinical Radiotherapy Team, Experimental Imaging Centre, San Raffaele Scientific Institute, Milan, Italy.

### **Grants**

Principal Investigator of: Development of optical methods for preclinical imaging using radiotracers.

Project Number: GR2010-2309585

Funding body: Italian Ministry of Health.

Period: 2012-2015.

Total amount funded: 371.200 euro.

Work package leader of: Radiotherapy coupled with hyperthermia - adapting the biological equivalent dose concept.

Project Number: 18HLT06

Funding body: European Union

Period: 2019-2021.

Total amount funded: 1.853.675 euro.

Collaborator (preclinical part): Pre-clinical assessment of protective role of anti-androgens in reducing urinary toxicity after high-dose radiotherapy.

Funding body: AIRC

Project Number: 21441

Period: 2019-2023.

Total amount funded: 572.000 euro.

### **Scientific awards**

Galileo Galilei Award, best publication in the European Journal of Medical Physics (EJMP) in 2015 for the paper: Novel biomedical applications of Cerenkov radiation and radioluminescence imaging, Physica Medica, Volume 31, Issue 2, 2015.

### **Skills**

Laboratory skills: Good knowledge of optical imaging equipment for in vivo imaging and strong experience in developing new imaging devices. Good knowledge of preclinical small animals imaging techniques (optical, PET, CT), good knowledge of radioisotopes and small animals handling. Strong experience in working in a multidisciplinary molecular imaging and preclinical laboratory.

Computing skills: knowledge of Windows and Linux environment. Good knowledge of IDL (interactive data language) environment and several image analysis software, basic knowledge of MATLAB and Octave.

Languages: Italian (mother tongue), English (fluent written and spoken).

## **Academic Activities**

Associate professor habilitation: Applied Physics (to biology and medicine, SSD FIS/07) from: 04 April 2017.

Eligible (Idoneo) RTDb researcher (ricercatore tempo determinato, lettera b) for SSD FIS/07 from: 05 October 2017.

## **Didactics Activities**

Lecturer (professore a contratto): Physics applied to radiation (SSD FIS/07, CFU=3), Faculty of Medicine, University of Bologna for the academic years: 2008, 2009, 2010, 2011.

Supervised students:

M.Sc. Degree in Physics, University of Bologna

Daniela D'Ambrosio, project title: Characterization of the physical performance of a small animal PET scanner.

Sara Domenichelli, project title: Quantitative dynamic PET imaging using cluster analysis. Pasquale Cilibrizzi, project title: Novel iterative algorithms for small animal PET image

M.Sc. Degree in bioengineering, University of Bologna

Luca Guerrieri, project title: Partial volume correction of positron emission images using the wavelet transform.

Gianluca Borghini, project title: Image analysis of small animal PET and CT images.

Giacomo Fiacchi, project title: Quantitative cardiac imaging using small animal PET and CT tomographs.

B.Sc. Degree in engineering, Politecnico di Milano

Angela Caputo project title: Radioluminescence imaging for real time dosimetry

## **Referee for the following journals:**

Analyst, Applied Science, Biomedical Optics Express, Chemical Communications, European Journal of Nuclear Medicine, International journal of radiation oncology biology physics, Journal of Biophotonics, Journal of Innovative Optical Health Sciences, Journal of Biomedical Optics, Journal of Nuclear Medicine, Molecular imaging and Biology, Medical Physics, Optics Letters, PlosOne, Physica Medica, Physics in Medicine and Biology, Scientific Reports, Transactions on Biomedical Engineering.

## **Member of committees**

International member of the evaluation committee for the Inserm (France) grants on interdisciplinary research.

Subchair (imaging technology) of the EMIM 2020 meeting

## **Past and Present Collaborations**

Small animal PET imaging and dosimetry

Dr. Mike Partridge, Dr. Antogni Divoli, Dr. Glenn Flux

Joint Department of Physics, The Institute of Cancer Research, London, UK

Development of Cerenkov and Radioluminescence imaging,

Dr. Federico Boschi, Prof. Alberto Fenzi, Prof. Pasquina Marzola, Prof. Andrea Sbarbati, Dr. Mirco Galie  
Department Anatomy, University of Verona, Italy

Monte Carlo simulations for Cerenkov imaging in radiotherapy  
Dr. Sergio Lo Meo, Dr. Tiziano Rovelli  
Department of Physics, University of Bologna, Italy

Small animal Cerenkov tomography  
Dr. Chaincy Kuo, Dr. Brad Rice  
Research and Development Perkin Elmer (former Caliper Life Sciences), USA

Optical imaging of gamma emitters  
Dr. Matteo Salgarello, Dr. Giancarlo Gorgoni  
Department of Nuclear Medicine, Ospedale Sacro Cuore Don Calabria, Negrar, Italy

Monte Carlo simulations for preclinical Cerenkov imaging  
Prof. Alberto Del Guerra, Dr. Nicola Belcari  
Department of Physics, University of Pisa, Italy

Cerenkov imaging on patients  
Dr. Marta Cremonesi, Dr. Mahila Ferrari  
Medical Physics Department, European Institute of Oncology (IEO), Milan, Italy

Cerenkov imaging on ex vivo tumor tissues  
Dr. Marco Schiariti  
Neurosurgery Carlo Besta Institute, Milan, Italy

Monte Carlo simulations for Cerenkov dosimetry  
Prof. Nicole Akerman  
Agnes Scott College, Atlanta, USA

#### **Research entrusted by research institutions**

Principal investigator of research line 8.6 Cerenkov luminescence imaging, San Raffaele Scientific Institute, Milan.

Coordinator of small animal Optical and CT imaging, San Raffaele Scientific Institute, Milan.

#### **Invited Talks (congress or international schools)**

Modelli Computazionali per Elaborare Oggetti Visuali e Conoscenze in Ambito Biomedico Università' degli studi dell'Insubria (29/09/2006, Varese).

Quantitation and molecular imaging, meeting on: new trends in molecular imaging (24/09/2007, Bologna).

Molecular imaging using small animal PET and CT tomographs, Leuven University (11/04/2007, Leuven, Belgium).

Small animals optical imaging of alpha, beta and gamma emitters, Perkin Elmer users meeting, (11/06/2012, London, UK).

Optical imaging of alpha, beta and gamma emitters in vitro and in vivo results (02/05/2012 Strasbourg University, France).

Looking into biology in vivo using Cerenkov radiation, Perkin Elmer users meeting (05/03/2013, Brussel, Belgium).

Optical imaging of radionuclides, Congress of the Italian Association of Medical Physics (16/11/2013 Turin, Italy).

Optical and Cerenkov imaging, International Workshop on Imaging (07/09/2015, Varenna, Italy).

Tumor imaging using Cerenkov light: preclinical and clinical applications, surgical oncology international conference (09/09/2015, Naples, Italy).

An overview of biomedical imaging using Cerenkov radiation: from mouse to man, Department of Physics, University of Ferrara (26/05/2016, Ferrara).

Biomedical imaging using Cerenkov radiation, Department of Physics, University La Sapienza (13/06/2016, Rome).

Potentials of Cerenkov imaging in radiotherapy, ESTRO 36 annual meeting (08/05/2017, Vienna).

Pre-clinical Research on Animal Models, AIFM international course on predictive models in external beam radiotherapy (25/03/2019, Naples).

### **Technology transfer**

Development of a prototype for optical radionuclide imaging with the company MecMurphil, (Ferrara). The prototype was presented at the XI National Congress of the Italian Association of Nuclear Medicine and Molecular Imaging (AIMN) at the Lingotto Congress Center (1-4 March 2013, Turin).

Collaboration with DoseVue (<http://www.dosevue.com/>) for the development of novel dosimetric methods for external radiotherapy.

### **Publications**

Data from the Scopus database

<https://www.scopus.com/authid/detail.uri?authorId=15822759700#>

Author ID: 15822759700

Total documents=77

Total Citations=990

h-index=18

### **Peer-reviewed articles**

Boschi F, Basso P, Corridori I, Durando G, Sandri A, Segalla G, Raspanti M, Spinelli AE  
Weak biophoton emission after laser surgery application in soft tissues: analysis of the optical features (2019) Journal of Biophotonics art. no. e201800260 .

Lenti, E., Bianchessi, S., Proulx, S.T., Palano, M.T., Genovese, L., Raccosta, L., Spinelli, A., Drago, D., Andolfo, A., Alfano, M., Petrova, T.V., Mukenge, S., Russo, V., Brendolan, A.  
Therapeutic Regeneration of Lymphatic and Immune Cell Functions upon Lympho-organoid Transplantation (2019) Stem Cell Reports, 12 (6), pp. 1260-1268.

Spinelli AE, Girelli M, Arosio D, Polito L, Podini P, Martino G, Seneci P, Muzio L, Menegon A. Intracisternal delivery of PEG-coated gold nanoparticles results in high brain penetrance and long-lasting stability (2019) Journal of Nanobiotechnology, 17 (1), art. no. 49.

Bortolomai, I., Sandri, M., Draghici, E., Fontana, E., Campodoni, E., Marcovecchio, G.E., Ferrua, F., Perani, L., Spinelli, A., Canu, T., Catucci, M., Di Tomaso, T., Sergi Sergi, L., Esposito, A., Lombardo, A., Naldini, L., Tampieri, A., Hollander, G.A., Villa, A., Bosticardo, M.  
Gene Modification and Three-Dimensional Scaffolds as Novel Tools to Allow the Use of Postnatal Thymic Epithelial Cells for Thymus Regeneration Approaches (2019) Stem Cells Translational Medicine.

Frenquelli, M., Caridi, N., Antonini, E., Storti, F., Viganò, V., Gaviraghi, M., Occhionorelli, M., Bianchessi, S., Bongiovanni, L., Spinelli, A., Marcatti, M., Belloni, D., Ferrero, E., Karki, S., Brambilla, P., Martinelli-Boneschi, F., Colla, S., Ponzoni, M., DePinho, R.A., Tonon, G.  
The WNT receptor ROR2 drives the interaction of multiple myeloma cells with the microenvironment through AKT activation (2019) Leukemia,

Boschi F, De Sanctis F, Ugel S, Spinelli AE.  
T-cell tracking using Cerenkov and radioluminescence imaging  
(2018) J Biophotonics,. doi: 10.1002/jbio.201800093.

Casella G, Colombo F, Finardi A, Descamps H, Ill-Raga G, Spinelli A, Podini P, Bastoni M, Martino G, Muzio L, Furlan R.

Extracellular Vesicles Containing IL-4 Modulate Neuroinflammation in a Mouse Model of Multiple Sclerosis (2018) *Molecular Therapy*, (Article in Press).

Boschi F, De Sanctis F, Spinelli, A.E

Optical emission of 223-Radium: in vitro and in vivo preclinical applications (2018) *Journal of Biophotonics*, 11 (4), art. no. e201700209.

Spinelli AE, Durando G, Boschi F

Weak light emission of soft tissues induced by heating (2018) *Journal of Biomedical Optics*, 23 (4), art. no. 046003.

Galiè M, Boschi F, Scambi I, Merigo F, Marzola P, Altabella L, Lavagnolo U, Sbarbati A and Spinelli AE.

Theranostic Role of 32P-ATP as Radiopharmaceutical for the Induction of Massive Cell Death within Avascular Tumor Core. *Theranostics* 2017; 7(18):4399-4409.

Ackerman NL, Boschi F, Spinelli AE

Monte Carlo simulations support non-Cerenkov radioluminescence production in tissue. *J Biomed Opt.* 2017 Aug;22(8):1-11. doi: 10.1117/1.JBO.22.8.086002.

Mastaglio, S., Genovese, P., Magnani, Z., Ruggiero, E., Landoni, E., Camisa, B., Schiroli, G., Provati, E., Lombardo, A., Reik, A., Cieri, N., Rocchi, M., Oliveira, G., Escobar, G., Casucci, M., Gentner, B., Spinelli, A., Mondino, A., Bondanza, A., Vago, L., Ponzoni, M., Ciceri, F., Holmes, M.C., Naldini, L., Bonini, C. NY-ESO-1 TCR single edited stem and central memory T cells to treat multiple myeloma without graft-versus-host disease (2017) *Blood*, 130 (5), pp. 606-618.

Ackerman NL, Boschi F, Spinelli AE.

Radioluminescence from Tc-99m in glass predicts local dose (2017) *Physica Medica*, 42, pp. 112-115.

Locafaro G, Andolfi G, Russo F, Cesana L, Spinelli A, Camisa B, Ciceri F, Lombardo A, Bondanza A, Roncarolo MG, Gregori S.

IL-10-Engineered Human CD4+ Tr1 Cells Eliminate Myeloid Leukemia in an HLA Class I-Dependent Mechanism.

*Mol Ther.* 2017 Jul 5. pii: S1525-0016(17)30314-3. doi: 10.1016/j.ymthe.2017.06.029.

Spinelli, AE., Boschi F., Calandrino R. Optical imaging of irradiated cyclotron target window foils using Cerenkov and radioluminescence imaging

(2017) *Journal of Instrumentation*, 12 , art. no. P05023

Lidonnici, M.R., Aprile, A., Frittoli, M.C., Mandelli, G., Paleari, Y., Spinelli, A., Gentner, B., Zambelli, M., Parisi, C., Bellio, L., Cassinerio, E., Zanaboni, L., Cappellini, M.D., Ciceri, F., Marktel, S., Ferrari, G.

Plerixafor and G-CSF combination mobilizes hematopoietic stem and progenitors cells with a distinct transcriptional profile and a reduced in vivo homing capacity compared to plerixafor alone (2017) *Haematologica*, 102 (4), pp. e120-e124.

Gigliotti, C.R., Altabella, L., Boschi, F., Spinelli, A.E.

Monte Carlo feasibility study for image guided surgery: From direct beta minus detection to Cerenkov luminescence imaging

(2016) *Journal of Instrumentation*, 11 (7), art. no. P07021

Spinelli, A.E., Boschi, F.

Bremsstrahlung radiation detection for small animal imaging using a CCD detector (2016) *Physica Medica*, 32 (5), pp. 706-708.

Migliavacca, J., Percio, S., Valsecchi, R., Ferrero, E., Spinelli, A., Ponzoni, M., Tresoldi, C., Pattini, L.,

Bernardi, R., Coltella, N.

Hypoxia inducible factor-1 $\beta$  regulates a pro-invasive phenotype in acute monocytic leukemia  
(2016) *Oncotarget*, 7 (33), pp. 53540-53557.

Spinelli, A.E., Schiariti, M.P., Grana, C.M., Ferrari, M., Cremonesi, M., Boschi, F.

Cerenkov and radioluminescence imaging of brain tumor specimens during neurosurgery  
(2016) *Journal of Biomedical Optics*, 21 (5), art. no. 050502.

Boschi, F., Pagliazzi, M., Spinelli, A.E.

Cerenkov luminescence imaging of human breast cancer: A Monte Carlo simulations study  
(2016) *Journal of Instrumentation*, 11 (3), art. no. C03032.

Cappato, S., Tonachini, L., Giacomelli, F., Tirone, M., Galiotta, L.J.V., Sormani, M., Giovenzana, A., Spinelli, A.E., Canciani, B., Brunelli, S., Ravazzolo, R., Bocciardi, R.

High-throughput screening for modulators of ACVR1 transcription: Discovery of potential therapeutics for fibrodysplasia ossificans progressiva  
(2016) *DMM Disease Models and Mechanisms*, 9 (6), pp. 685-696.

Altabella, L., Boschi, F., Spinelli, A.E.

Pixel-based parametric source depth map for Cerenkov luminescence imaging  
(2016) *Journal of Instrumentation*, 11 (1), art. no. C01048.

Mezzapelle, R., Rrapaj, E., Gatti, E., Ceriotti, C., De Marchis, F., Preti, A., Spinelli, A.E., Perani, L., Venturini, M., Valtorta, S., Moresco, R.M., Pecciarini, L., Doglioni, C., Frenquelli, M., Crippa, L., Recordati, C., Scanziani, E., De Vries, H., Berns, A., Frapolli, R., Boldorini, R., D'Incalci, M., Bianchi, M.E., Crippa, M.P.

Human malignant mesothelioma is recapitulated in immunocompetent BALB/c mice injected with murine AB cells  
(2016) *Scientific Reports*, 6, art. no. 22850.

Altabella, L., Gigliotti, C.R., Perani, L., Crippa, M.P., Boschi, F., Spinelli, A.E.

High resolution in vitro bioluminescence imaging using a multimodal optical system  
(2016) *Journal of Instrumentation*, 11 (1), art. no. C01035.

Spinelli, A.E., Gigliotti, C.R., Boschi, F.

Unified approach for bioluminescence, Cerenkov,  $\beta$ ,  $\alpha$  and  $\gamma$  rays imaging  
(2015) *Biomedical Optics Express*, 6 (6), pp. 2168-2180.

Spinelli, A.E., Boschi, F.

Novel biomedical applications of Cerenkov radiation and radioluminescence imaging  
(2015) *Physica Medica*, 31 (2), pp. 120-129.

Spinelli, A.E., Pagliazzi, M., Boschi, F.

Design of a multimodal fibers optic system for small animal optical imaging  
(2015) *Physica Medica*, 31 (1), pp. 108-111.

Spinelli, A.E., Boschi, F.

Human cerenkov imaging using  $^{18}\text{F}$ -FDG  
(2014) *Journal of Nuclear Medicine*, 55 (3), p. 523.

Boschi F, Spinelli A E Cerenkov Luminescence Imaging at a glance.

*Curr Mol Imm* (2014).

Pagliazzi, M., Boschi, F., Spinelli, A.E.

Imaging of luminescence induced by beta and gamma emitters in conventional non-scintillating materials  
(2014) *RSC Advances*, 4 (26), pp. 13687-13692.

Crippa, S., Salgarello, M., Laiti, S., Partelli, S., Castelli, P., Spinelli, A.E., Tamburrino, D., Zamboni, G., Falconi, M.

The role of  $^{18}\text{F}$ -fluorodeoxyglucose positron emission tomography/computed tomography in resectable pancreatic cancer

(2014) Digestive and Liver Disease, 46 (8), pp. 744-749.

Spinelli, A.E., Ferdeghini, M., Cavedon, C., Zivelonghi, E., Calandrino, R., Fenzi, A., Sbarbati, A., Boschi, F.

First human cerenkography

(2013) Journal of Biomedical Optics, 18 (2), art. no. 020502.

Boschi, F., Pagliazzi, M., Rossi, B., Cecchini, M.P., Gorgoni, G., Salgarello, M., Spinelli, A.E.

Small-animal radionuclide luminescence imaging of thyroid and salivary glands with Tc99m-pertechnetate

(2013) Journal of Biomedical Optics, 18 (7), art. no. 076005.

D'Ambrosio, D., Zagni, F., Spinelli, A.E., Marengo, M.

Attenuation correction for small animal PET images: A comparison of two methods

(2013) Computational and Mathematical Methods in Medicine, 2013, art. no. 103476.

Zagni, F., D'Ambrosio, D., Spinelli, A.E., Cicoria, G., Fanti, S., Marengo, M.

Accurate modeling of a DOI capable small animal PET scanner using GATE

(2013) Applied Radiation and Isotopes, 75, pp. 105-114.

Calandrino, R., Ardu, V., Corletto, D., Del Vecchio, A., Origgi, D., Signorotto, P., Spinelli, A., Tosi, G., Bolognesi, A., Cariatì, M., Kluzer, A., Muscarella, S.

Evaluation of second cancer induction risk by CT follow-up in oncological long-surviving patients

(2013) Health Physics, 104 (1), pp. 1-8.

Boschi, F., Spinelli, A.E.

Quantum dots excitation using pure beta minus radioisotopes emitting Cerenkov radiation

(2012) RSC Advances, 2 (29), pp. 11049-11052.

Carillo, V., Cozzarini, C., Perna, L., Calandra, M., Gianolini, S., Rancati, T., Spinelli, A.E., Vavassori, V., Villa, S., Valdagni, R., Fiorino, C.

Contouring variability of the penile bulb on CT images: Quantitative assessment using a generalized concordance index

(2012) International Journal of Radiation Oncology Biology Physics, 84 (3), pp. 841-846.

Spinelli, A.E., Marengo, M., Calandrino, R., Sbarbati, A., Boschi, F.

Optical imaging of radioisotopes: A novel multimodal approach to molecular imaging

(2012) Quarterly Journal of Nuclear Medicine and Molecular Imaging, 56 (3), pp. 280-290.

Spinelli, A.E., Boschi, F.

Optimizing in vivo small animal Cerenkov luminescence imaging

(2012) Journal of Biomedical Optics, 17 (4), art. no. 040506.

Spinelli, A.E., Boschi, F.

Unsupervised analysis of small animal dynamic cerenkov luminescence imaging

(2011) Journal of Biomedical Optics, 16 (12), art. no. 120507.

Boschi, F., Meo, S.L., Rossi, P.L., Calandrino, R., Sbarbati, A., Spinelli, A.E.

Optical imaging of alpha emitters: Simulations, phantom, and in vivo results

(2011) Journal of Biomedical Optics, 16 (12), art. no. 126011.

Spinelli, A.E., Meo, S.L., Calandrino, R., Sbarbati, A., Federico, B.

Optical imaging of tc-99m-based tracers: In vitro and in vivo results

(2011) Journal of Biomedical Optics, 16 (11), art. no. 116023.

Spinelli, A.E., Boschi, F., D'Ambrosio, D., Calderan, L., Marengo, M., Fenzi, A., Menegazzi, M., Sbarbati, A., Del Vecchio, A., Calandrino, R.

Cherenkov radiation imaging of beta emitters: In vitro and in vivo results

(2011) Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 648 (SUPPL. 1).

Spinelli, A.E., Kuo, C., Rice, B.W., Calandrino, R., Marzola, P., Sbarbati, A., Boschi, F.



Multispectral Cerenkov luminescence tomography for small animal optical imaging  
(2011) *Optics Express*, 19 (13), pp. 12605-12618.

Alongi, F., Russo, G., Spinelli, A., Borasi, G., Scorsetti, M., Gilardi, M.C., Messa, C.  
Can magnetic resonance image-guided focused ultrasound surgery replace local oncology treatments? A review  
(2011) *Tumori*, 97 (3), pp. 259-264.

Spinelli, A.E., Boschi, F.  
Unsupervised analysis of small animal dynamic Cerenkov luminescence imaging  
(2011) *Journal of Biomedical Optics*, 16 (12), art. no. 120507.

Boschi, F., Calderan, L., D'Ambrosio, D., Marengo, M., Fenzi, A., Calandrino, R., Sbarbati, A., Spinelli, A.E.  
In vivo 18F-FDG tumour uptake measurements in small animals using Cerenkov radiation  
(2011) *European Journal of Nuclear Medicine and Molecular Imaging*, 38 (1), pp. 120-127.

Spinelli, A.E., D'Ambrosio, D., Calderan, L., Marengo, M., Sbarbati, A., Boschi, F.  
Reply to 'comments on "cerenkov radiation allows in vivo optical imaging of positron emitting radiotracers"'  
(2010) *Physics in Medicine and Biology*, 55 (18).

D'Ambrosio, D., Fiacchi, G., Marengo, M., Boschi, S., Fanti, S., Spinelli, A.E.  
Reconstruction of dynamic pet images using accurate system point spread function modeling: Effects on parametric images  
(2010) *Journal of Mechanics in Medicine and Biology*, 10 (1), pp. 73-94.

Spinelli, A.E., D'Ambrosio, D., Calderan, L., Marengo, M., Sbarbati, A., Boschi, F.  
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(2010) *Physics in Medicine and Biology*, 55 (2), pp. 483-495.

Boschi, F., Spinelli, A.E., D'Ambrosio, D., Calderan, L., Marengo, M., Sbarbati, A.  
Combined optical and single photon emission imaging: preliminary results.  
(2009) *Physics in medicine and biology*, 54 (23).

Farace, P., D'Ambrosio, D., Merigo, F., Galiè, M., Nanni, C., Spinelli, A., Fanti, S., Degraffi, A., Sbarbati, A., Rubello, D., Marzola, P.  
Cancer-associated stroma affects FDG uptake in experimental carcinomas. Implications for FDG-PET delineation of radiotherapy target  
(2009) *European Journal of Nuclear Medicine and Molecular Imaging*, 36 (4), pp. 616-623.

Farace, P., Galiè, M., Nanni, C., Spinelli, A., Fanti, S.  
Contouring Carcinomas by FDG-PET: Is the Role of Tumor Biology Underestimated?: In Regard to MacManus et al. (*Int J Radiat Oncol Biol Phys* 2008;71:2-4)  
(2008) *International Journal of Radiation Oncology Biology Physics*, 72 (1), pp. 303-304.

Galiè, M., Farace, P., Nanni, C., Spinelli, A., Nicolato, E., Boschi, F., Magnani, P., Trespidi, S., Ambrosini, V., Fanti, S., Merigo, F., Osculati, F., Marzola, P., Sbarbati, A.  
Epithelial and mesenchymal tumor compartments exhibit in vivo complementary patterns of vascular perfusion and glucose metabolism  
(2007) *Neoplasia*, 9 (11), pp. 900-908.

Ambrosini, V., Nanni, C., Pettinato, C., Fini, M., D'Errico, A., Trepidì, S., Spinelli, A., Al-Nahhas, A., Rubello, D., Zompatori, M., Fabbri, M., Franchi, R., Fanti, S.  
Assessment of a chemically induced model of lung squamous cell carcinoma in mice by 18F-FDG small-animal PET  
(2007) *Nuclear Medicine Communications*, 28 (8), pp. 647-652.

Nanni, C., Pettinato, C., Ambrosini, V., Spinelli, A., Trespidi, S., Rubello, D., Al-Nahhas, A., Franchi, R., Alavi, A., Fanti, S.  
Retro-orbital injection is an effective route for radiopharmaceutical administration in mice during small-animal PET studies  
(2007) *Nuclear Medicine Communications*, 28 (7), pp. 547-553.

Nanni, C., Di Leo, K., Tonelli, R., Pettinato, C., Rubello, D., Spinelli, A., Trespidi, S., Ambrosini, V., Castellucci, P., Farsad, M., Franchi, R., Pession, A., Fanti, S.  
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