

## BIOGRAPHICAL SKETCH

NAME: Antero José Pena Afonso de Abrunhosa

---

PHONE: 239 488 515 / 917 669 889

---

EMAIL: antero@pet.uc.pt

---

POSITION TITLE: Head of Radiochemistry Lab, ICNAS/UC

Member of the Research Team, IBILI/FMUC

Production Manager, ICNAS-P/UC

## A. Education

**Academic Degrees** (Year/ academic degree/ field of study/ institution) \*  
in inverse chronological order

---

2002	PhD	Biomedical Sciences	FMUC
1996	MSc	Biomedical Engineering	FCTUC/FMUC
1992	BSc	Biochemistry	FCTUC

## B. Positions and Honors

**Positions and Employment:** in inverse chronological order

---

2009	Production director	ICNAS-Produção, UC
2009	Head of Radiochemistry Lab	ICNAS/UC
1999	Member of the research team	IBILI/FMUC
1996	PhD Student	Hammersmith Hospital, London, UK

## Honors and Awards:

---

“Prémio Robalo Cordeiro - AER/GSK”. *Nanoradioliposomes molecularly modulated to study the lung deep lymphatic drainage*. M Filomena Botelho, M Alcide Marques, Célia Gomes, Augusto Silva, Vasco Bairos, M Santos Rosa, Antero Abrunhosa and JJ Pedroso de Lima. Coimbra, 2007.

“Young Investigator Award”. Future Directions in Nuclear Medicine Physics and Engineering Symposium. March 19-21, 1999. Chicago, USA.

“Prémio Nycomed-Amersham para a melhor comunicação oral”. VII Congresso Nacional de Medicina Nuclear. Novembro de 1998. Sintra, Portugal.

“Honourable mention of the Scientific Committee”. III International Conference on Quantification of Brain Function with PET. June 20-22, 1997. Bethesda. USA.

C. Research
-------------

## Areas of Research

---

Radiopharmaceutical development. Radioisotopes for medical imaging. Radiopharmacy and quality control. Molecular Modelling. Structure-activity studies.

## Peer-reviewed publications in the last 5 years in inverse chronological order with indication of impact factor and nº of citations

---

Sara R Martins-Neves, Aurio O Lopes, Anália Do Carmo, Artur A Paiva, Paulo C Simões, Antero J Abrunhosa, Célia M F Gomes. Therapeutic implications of an enriched cancer stem-like cell population in a human osteosarcoma cell line. *BMC Cancer*. (2012). *In press*. (Impact factor: 3.15)

Fernandes E, Barbosa Z, Clemente G, Alves F, Abrunhosa AJ. Positron emitting tracers in pre-clinical drug development. *Curr Radiopharm*. (2012) Apr 1;5(2):90-8.

Célia Gomes, Antero J. Abrunhosa, Pedro Ramos, Ernest K.J. Pauwels. Molecular imaging with SPECT as a tool for drug development. *Advanced Drug Delivery Reviews*, (2011), 63(7): 547-554. (Impact factor: 13.57; nº of citations: 2)

Abrunhosa, A.J., Prata, M.I. (2010). “Radiopharmaceuticals: Development and Main Applications”. In *Nuclear Medicine Physics*. Joao Jose de Lima (Editor). CRC Press. 2010

Célia M.F. Gomes, Antero J. Abrunhosa, Ernest K.J. Pauwels. Molecular Imaging with SPECT and PET in Exploratory Investigational New Drug Studies. *Drugs of the Future* (2011), 36(1): 69-77. (Impact factor: 0.548; nº of citations: 1)

C.M.F. Gomes, A.J. Abrunhosa, E.K.J Pauwels, M.F. Botelho. P-glycoprotein vs. MRP1 on transport kinetics of cationic lipophilic substrates: a comparative study using [99mTc]Sestamibi

and [99mTc]Tetrofosmin. *Cancer Biotherapy & Radiopharmaceutical*, (2009) 24(2):215-227. (Impact factor: 1.873; nº of citations: 7)

Célia MF Gomes, Mick Welling, Ivo Que, Niek V. Henriquez, Gabri van der Pluijm, Salvatore Romeo, Antero J Abrunhosa, M Filomena Botelho, Pancras CW Hogendoorn, Ernest Pauwels, Anne Marie Cleton-Jansen. *Functional Imaging of Multidrug Resistance in an Orthotopic Model of Osteosarcoma using 99mTc-Sestamibi*. *Eur J Nuc Med and Mol Imaging* (2007) 34(11):1793-1803. (Impact factor: 4.665; nº of citations: 10)

#### D. Research Supervision

##### **PhD Students including field of study**

---

Ana Vanessa Simões (FCT funded, ongoing). Radiopharmaceutical development.

##### **Master Students**

---

Gonçalo Clemente (MSc, ongoing).

Vítor Hugo Pereira Alves (MSc, ongoing).

Sara Cristina Inocência Neves (MSc, ongoing).

Nuno Paulo Ferreira Gonçalves. (MSc, completed 2010).

Ricardo Faustino (MSc, completed 2010).

#### E. Research Support (Completed Research Grants)

##### **As team member:**

---

PTDC/QUI/70063/2006 Targeted Nanoconstructs for Multimodal Medical Molecular Imaging (global budget 150,600.00 €).

III/UC (2005). Development of an ultra-high resolution mouse brain PET

POCTI/SAU-OBS/61642/2004 Affordable, very-high sensitivity human PET: feasibility studies

AdI/POSI (2003) PET - Mammography Consortium. Development of Positron Emission Mammography.

POCTI/QUI/47005/2002 Targeted Contrast Agents for Magnetic Resonance Imaging (MRI) and Nuclear

Ongoing Research Grants (funding on 2012)
---

**As team member:**

---

TDC/QUI-QUI/102049/2008 Radiolabeled Benzazole Derivatives for In Vivo Imaging of Amyloid Aggregation. (Start date Jan. 2010, global budget 197,596.00€).

PTDC/SAU-BEB/104630/2008 RPC-PET - A novel technology for single-bed whole-body human molecular imaging with higher sensitivity and resolution (start date Jan. 2010, global budget 199,824.00 €).