

CURRICULUM VITAE

NAME: Eva M. Serrão

OFFICE ADDRESS Cancer Research UK Cambridge Institute,
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PLACE OF BIRTH/ NATIONALITY Funchal, Portugal / Portuguese

DATE OF BIRTH 27th October 1982

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EDUCATION

2011-to-date: **Doctorate student in Biochemistry** / Cambridge Research
Institute, University of Cambridge, Cambridge, United Kingdom

2008-to-date: Speciality Training in Radiology, Hospital Fernando Fonseca,
Lisbon, Portugal

2007: General Internship, Hospital de Santo António dos Capuchos,
Lisbon, Portugal (Foundation year 2)

2006: **Medical Degree** (and Foundation Year 1), **Faculty of Medicine**
of the University of Coimbra, Portugal

SCIENTIFIC, EDUCATIONAL AND ACADEMIC ACTIVITIES

Teaching:

2013-to date: Anatomy Demonstrator in the Medical degree of the University of
Cambridge, Cambridge, United Kingdom

2009-2010: Invited lecturer of the 'Imaging applied to oncology' subject, in
the Radiology degree of the Atlantica University, Lisbon, Portugal

Invited Talks / Conferences Moderation / Organisation

- 2013:** Invited speaker in the Cambridge research centre meeting for clinical researchers in training – Cambridge Research Centre, Cancer Research UK - Cambridge Institute, Cambridge, United Kingdom
- 2013:** Co-Moderator of the session “Clinical & Translational Multimodal MR in Cancer” at the ISMRM workshop, Valencia, Spain
- 2003:** Main organiser of the XIII National Meeting of Medical Students, Madeira, Portugal

Peer Review Activities - Journal Reviewer:

- 2011:** Scientific reviewer for the *Journal of Radiology Case Reports*

Additional Employment / Work Experience:

- 2013-to-date:** Clinical fellow on the Urology Department of the Addenbrooke’s Hospital, Cambridge, United Kingdom
- 2011-to-date:** Clinical attachment to the Radiology Department of the Addenbrooke’s Hospital, Cambridge, United Kingdom
- 2010:** Radiology rotation on MRI applied to pancreatic cancer, at the Erasmus Hospital, Brussels, Belgium
- 2007:** Biomedical Laboratory Research Internship at Instituto de Tecnologia Química e Biológica (ITQB), Oeiras (Lisbon), Portugal
- 2003:** Selected student for Summer Surgery Rotation, Tunis, Tunisia

Audits:

- 2013:** Responsible for a radiology-urology audit on false negative rate on pre-biopsy prostate MRI, Addenbrooke’s Hospital, University of Cambridge, Cambridge, United Kingdom
- 2010:** Responsible for a radiology audit on anxiety levels in patients undergoing CT scan, Hospital Fernando Fonseca, Lisbon, Portugal

AWARDS, PRIZES AND FELLOWSHIPS

- 2013:** First Prize: Best poster Award - CRUK Symposium 2013
- 2013:** World Molecular Imaging Student Prize
- 2013:** Fitzwilliam College, University of Cambridge, Research support
- 2013:** British Chapter of International Society of Magnetic Resonance in Medicine travel award
- 2013:** Isotec Student Award
- 2012:** Young Investigator award in Molecular imaging from the Radiology Society of North America
- 2012:** British Chapter of International Society of Magnetic Resonance in Medicine travel award
- 2011:** Marie Curie Initial Training Network Fellowship – Metaflux project, 7th EU Framework (FP7-ITN)
- 2010:** Gulbenkian and Champalimaud Foundation studentship (5 students per year awarded nationally in Portugal).
- 2009:** Merit Award – Jornadas do Hospital Fernando Fonseca

PUBLICATIONS

Primary research

Rodrigues, Tiago B; **Serrão, Eva M.**; Kennedy, Brett WC; Hu, De-en; Kettunen, Mikko I; Brindle, Kevin M. "Magnetic resonance imaging of tumor glycolysis using hyperpolarized ¹³C-labeled glucose", *Nat Med* 2014 20(1):93-7

Marco-Rius, Irene; Tayler, Michael C. D.; Kettunen, Mikko I.; Larkin, Timothy J.; Timm, Kerstin N.; **Serrão, Eva M.**; Rodrigues, Tiago B.; Pileio, Giuseppe; Ardenkjaer-Larsen, Jan Henrik; Levitt, Malcolm H.; Brindle, Kevin M.; "Hyperpolarized singlet lifetimes of pyruvate in human blood and in mouse", *NMR in Biomedicine* 2013 Aug; Epub

Schmidt, Rita; Laustsen, Christoffer; Dumez, Jean-Nicolas; Kettunen, Mikko I.; **Serrão, Eva M.**; Marco-Ruis, Irene; Brindle, Kevin M.; Ardenkjaer-Larsen, Jan Henrik; Frydman, Lucio; "In vivo single-shot ¹³C spectroscopic imaging of hyperpolarized metabolites by spatiotemporal encoding", *Journal of Magnetic Resonance* 2014 Jan: Epub

Patrick PS; Tee S; Rodrigues TB; **Serrão Eva M.**; Timm K; Kettunen MI; Brindle KM; Detection of transgene expression using hyperpolarized ¹³C urea and diffusion-weighted MRS (submitted to *MRM*)

Dzien, P; Kettunen, MI; Marco - Rius, I; **Serrão, Eva M.**; Rodrigues, TB; Larkin, TJ; Timm, KT; Brindle, KM; ¹³C magnetic resonance spectroscopic imaging of hyperpolarized [1-¹³C, U-²H₅] ethanol oxidation in vivo can be used to assess aldehyde dehydrogenase activity (submitted to *MRM*)

Kuru, TH; Kastner, C; Saeb-Parsy, K; Cantiani, A; Frey. J; Lombardo, R; **Serrão, Eva**; et al. Repeat prostate biopsy after initial benign standard biopsy- Evaluation of the use of extensive transrectal, transperineal and MRI-targeted TRUS fusion transperineal prostate biopsies in a UK cancer centre (submitted to *BJU International*)

Case reports

Serrão, Eva; Santos, Alexandra; Gaivão, Ana; Tavares, Ana; Ferreira, Sérgio; Congenital esophageal stenosis: a rare case of dysphagia; *Journal of Radiology Case Reports* 2010 Jun; 4 (6): 8-14.

Almeida, Jaime; **Serrão, Eva M.**; Almeida, André; Afonso, Joana; Effective treatment with clozapine and valproate for refractory schizophrenia-like psychosis after cerebellar haemorrhage; *Clin Neuropharmacol.* 2011 May-Jun;34(3):131-2

Reviews

Matos, Celso; **Serrão, Eva**; Bali, Maria; Biliary malignancies; *Magnetic Resonance Imaging Clinics North America* 2010 Aug;18(3):477-96

Book chapters

Serrão, Eva M.; Thakor, Avnesh S; Goh, Vicky; Gallagher, Ferdia A; Functional and molecular imaging in Oncology: the era of personalized medicine in Oncology, Grainger & Allison's Diagnostic Radiology, 6th edition (*in press*)

Abstracts – Selected list of communications from a total of 40

1. **Eva Serrão**; Kettunen; Rodrigues; Gallagher; Tuveson ; Kevin Brindle: Non invasive detection of early precursor lesions of pancreatic cancer using HP[1-¹³C]pyruvate(oral) – Euromar, 30 June–5 July 2013, Crete, Greece

2. **Eva Serrão**; Ferdia A Gallagher; Mikko I Kettunen; Tiago B Rodrigues; Helen Sladen; Kevin M Brindle: “Hyperpolarized ^{13}C magnetic resonance spectroscopy: imaging the metabolic phenotype of tumors” – RSNA, 25-30 Nov 2012, Chicago, USA
3. **Eva Serrão**, Tiago Rodrigues, Mikko I. Kettunen, Ferdia A. Gallagher, Brett W.C. Kennedy, De-en Hu, Keith Burling, Joan Boren, Helen Sladen, Kevin M. Brindle; “Reproducibility study of ^{13}C magnetic resonance spectroscopy using hyperpolarized [$1\text{-}^{13}\text{C}$] pyruvate” – WMIC, 5-7 September 2012, Dublin, Ireland
4. **Eva Serrão**, Helena Isabel, Ana Germano: “The Role of Doppler Sonography in a Pediatric Intensive Care Unit” - RSNA, 28 Nov – 3 Dec 2010, Chicago, USA
5. **Eva Serrão**, Ana Germano, Andreia Nascimento, Rita Manso, Inês Sapinho, Manuela Baptista, “ US features of thyroid malignancy” - European Congress Radiology, 4 – 8 Mar 2010, Vienna, Austria
6. **Eva Serrão**, Hálío Duarte, Ana Costa: “Revisiting the Gastroesophageal Junction Abnormalities in Barium Studies” - RSNA, 30 Nov-4 Dec 2009, Chicago, USA

POST GRADUATE / ADVANCE COURSES

- 2014:** Fundamentals of Clinical Trials – Harvard University - HarvardX
- 2013:** Advanced Life Support – Resuscitation Council – United Kingdom
- 2013:** Multiparametric MRI of the prostate, standardized reporting & MRI-targeted transperineal prostate biopsies, Madingley Hall, Cambridge, United Kingdom
- 2011:** Introductory Statistics and Research Methods by the Centre for Applied Medical Statistics Department of Public Health and Primary Care Institute of Public Health, University of Cambridge, Cambridge, United Kingdom
- 2009:** Certification in Osteodensitometry by the International Society of Clinical Osteodensitometry, Chicago, USA
- 2008:** Multifactorial Statistical Analysis in Epidemiology, Instituto de Formação Avançada da Faculdade de Medicina da Universidade de Lisboa, Lisbon, Portugal

CLINICAL TRIAL INVOLVEMENT

2013-to date: “Development of hyperpolarised ¹³C magnetic resonance imaging as an imaging tool for patients with cancer”

Principal Investigator: Dr Ferdia Gallagher

Funding: Wellcome Trust and Cancer Research UK

2009-2011: “Evaluation of endothelial dysfunction in cardiovascular disease”

Principal Investigator: Victor Gil

Funding: Health Ministry Research Fund - Portugal

2009: “Save Hip 2: A multinational, multicenter, randomized, double-blind study comparing the efficacy and safety of AVE5026 with enoxaparin for the prevention of venous thromboembolism in patients undergoing hip fracture surgery”

Local PI for Portugal: Jacinto Monteiro

Funding: Sanofi Aventis Research Grant (EFC 10343)

MEMBERSHIP OF SCIENTIFIC SOCIETIES

International Society for Magnetic Resonance in Medicine (ISMRM); World Molecular Imaging Society; Radiology Society of North America; European Society of Radiology; European Society of Molecular and Functional Imaging in Radiology; European Association for Cancer Research; Portuguese Society of Radiology and Nuclear Medicine.

ADDITIONAL SKILLS/ QUALIFICATIONS/ INFORMATIONS

Leadership/Management:

- Member of the 2013-2014 Committee of CUPortSS (Cambridge University Portuguese Speakers Society);
- Active member and coordinator of the Culture section of the Student Academic Association of the University of Coimbra, Coimbra, Portugal (2004-2005)
- Active member of the Pedagogic Council at the Medical Faculty of the University of Coimbra, Coimbra, Portugal (2004-2005)
- Writer of the cultural section of the Journal “Anemia” - journal from the Faculty of Medicine of the University of Coimbra (2002)

Animal Experimentation: UK Personal License Holder.

Languages: Portuguese (native language), English (proficient), French (basic).

Hobbies: Travel, music, reading, gardening, windsurfing and cycling.