BIOGRAPHICAL SKETCH

NAME: Melemenidis, Stavros

eRA COMMONS USER NAME (credential, e.g., agency login):

POSITION TITLE: Postdoctroral Scholar

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	Completion Date	FIELD OF STUDY
University of Liverpool, UK	B.Sc	06/2008	Physics: Medical Applications
University of Liverpool, UK	M.Sc	06/2009	Physics: Radiometrics
Oxford University, UK	M.Sc	07/2010	Radiation Biology
Oxford University, UK	D.Phil	12/2014	Radiation Biology
Oxford University, UK	Postdoctoral	1/2016	Molecular Imaging
Stanford University, USA	Postdoctoral	Currently	Molecular Imaging

A. Personal Statement

As a post-doctorate fellow at the Department of Radiation Oncology, Stanford University, I have dedicated my work on the development of primary and metastatic tumor mouse models for the purpose of investigating immune cell migration, early detection of disease, and clinically relevant therapy combining radiation with novel drugs. My training as a doctorate candidate and during my brief post-doctorate appointment in the Department of Radiation Oncology, Oxford University UK has equipped me with deep understanding of the molecularly targeted in vivo imaging with the use of contrast agents for early detection of metastasis. As a physics undergraduate and graduate student at the Department of Physics, Liverpool University UK, I have developed deep knowledge in all types of radiation and their implication in the entire spectrum of imaging modalities and medical radiation treatment.

B. Positions and Honors

Positions and Employment

2015 - 2016 Postdoctoral Scholar, Radiobiology Research Institute, Oxford University

2016 - to date Postdoctoral Scholar, School of Medicine, Radiation Oncology, Stanford University

Awards and Honors

2013 Invited presentation - Oxford Cancer Imaging Center retreat

2014 Poster prize and student bursary - Aegean Conferences

2014 Invited presentation - Oxford Cancer Imaging Center retreat

2014 Invited presentation - Oxford Institute Metastasis symposium

2019 Recognition of excellent research – Aegean Conferences

C. Selected Peer-reviewed Publications

1) **Melemenidis S.**, Jefferson A., Ruparelia N., Akhtar A.M., Xie J., Allen D., Hamilton A., Larkin J.R., Perez-Balderas F., Smart S.C., Muschel R.J., Chen X., Sibson N.R. Choudhury R.P. (2015) Quantitative molecular magnetic resonance imaging of angiogenesis *in vivo* using polyvalent cyclic RGD-iron oxide microparticle conjugates. *Theranostics* (Pubmed ID: 25767618).

2) Olcina M.M., Kim R.K., **Melemenidis S.**, Graves E.E., Giaccia A.J. (2018) The tumour microenvironment links complement system dysregulation and hypoxic signaling. *British Journal of Radiology* (Pubmed ID: 29544344).

3) Rafat M, Aguilera TA, Vilalta M, Bronsart LL, Soto LA, von Eyben R, Golla MA, Ahrari Y, **Melemenidis S**, Afghahi A, Jenkins MJ, Kurian AW, Horst KC, Giaccia AJ, Graves EE. (2018) Macrophages Promote Circulating Tumor Cell-Mediated Local Recurrence following Radiotherapy in Immunosuppressed Patients. *Cancer Res* (PMID: 29880480).

4) Wu W and Klockow JL, Mohanty S, Ku KS, Aghighi M, **Melemenidis S**, Chen Z, Li K, Morais GR, Zhao N, Schlegel J, Graves EE, Rao J, Loadman PM, Falconer RA, Mukherjee S, Chin FT, Daldrup-Link HE. (2019) Theranostic nanoparticles enhance the response of glioblastomas to radiation. *Nanotheranostics* (doi:10.7150/ntno.35342).

5) Ye J, Thompson C, Li A, Ducker G, Li Y, Seoane J, Xiao Y, **Melemenidis S**, Zhou Y, Liu L, Rabinowitz J, Vanharanta S, Graves E, Rankin E, Curtis C, and Massague J. (2019) Metabolic profiling reveals a dependency of human metastatic breast cancer on mitochondrial serine and one-carbon unit metabolism. *Mol Cancer Res* (In revision: MCR-19-0606-ATR).

6) **Melemenidis S.** Knight JC, Kersemans V, Perez-Balderas F, Zarghami N, Sarmiento Soto M, Bart Cornelissen B, Muschel RJ, Sibson NR. (2019) In vivo PET detection of lung micrometastasis by targeting endothelial VCAM-1. *EJNMMI* (In revision: EJNM-D-19-01107).