PERSONAL INFORMATION

SURNAME: PAPADAKIS
NAME: GEORGIOS
FATHERNAME: ZACHARIAS
DATE OF BIRTH: 19TH FEBRUARY 1982
PLACE OF RESIDENCE: HERAKLION (CRETE)
COUNTRY OF BIRTH: GREECE
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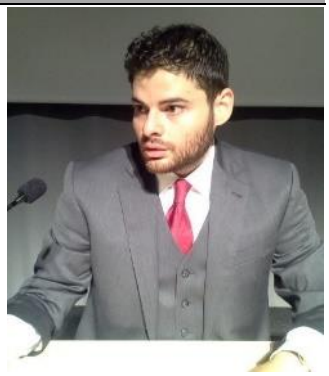

SHORT BIOSKETCH

- Dr Georgios Z. Papadakis is a Nuclear Medicine Physician, with expertise on the clinical and pre-clinical applications of Positron Emission Tomography (PET) imaging. His research activities are focused on the interdisciplinary area of Nuclear Medicine and Molecular Imaging, with innovative PET-radiopharmaceuticals. Currently, he is the scientific director of the Hybrid Molecular Imaging Unit (HMIU) at the Foundation for Research and Technology Hellas (FORTH) https://www.ics.forth.gr/hmiu/ which hosts a cutting-edge pre-clinical PET/MRI scanner that enables simultaneous PET and MRI acquisition (**4th scanner world-wide providing this capability**).

- Furthermore, HMIU hosts a radiochemistry lab, providing the capability of radiolabeling appropriately modified vectors (e.g., antibodies, peptides, peptidomimetics or small organic molecules) or multipotent carriers (e.g., nanoparticles or polymers) with all existing PET-isotopes.

- HMIU's mission is the development and translation of novel in-vivo molecular imaging PET-agents, that can be employed as diagnostic and/or therapeutic vectors targeting disease, with high specificity.

- The results of Dr Papadakis' research work have been published in top scientific journals and have been presented in top international meetings and conferences, receiving several honors and awards. His scientific vision focuses on the combination of competing fields of science at the crossroads of diagnosis and individualized treatment, which offer rich research opportunities, promising both immediate and long-term benefits to patients as well as cutting costs and improving efficacy.

CURRENT POSITIONS

2021 - ongoing	**Principal Researcher (Associate Professor level)** **Scientific Director** Hybrid Molecular Imaging Unit, at the Foundation for Research and Technology Hellas (FORTH).

2016 - ongoing	**Research Associate** National Institute of Dental and Craniofacial Research (NIDCR), National Institutes of Health (NIH), Bethesda, MD, USA.

PREVIOUS POSITIONS

2016 - 2021	**Deputy Manager** of the Hybrid Molecular Imaging Program, at the Foundation for Research and Technology Hellas (FORTH).
2018 – 2019 & **2019 – 2021**	**Adjunct Lecturer School of Medicine, University of Crete** Project Title: "Molecular Imaging Techniques**"**
2016 – 2017	**Visiting Assistant Research Professor** Center for Computational Biomedicine Imaging and Modeling (CBIM), Rutgers University, The state university of New Jersey, USA
2014 - 2016	**Research Fellowship (Imaging Sciences Training Program; ISTP)** Radiology & Imaging Sciences Department, Clinical Center (CC), National Institutes of Health (NIH), Bethesda, MD, USA.
2016 - 2017 & **2013 – 2014**	**Research Associate** National Institute of Child Health and Human Development (NICHD),National Institutes of Health (NIH), Bethesda, MD, USA.
2006 – 2011	**Resident in Nuclear Medicine** University Hospital of Heraklion, Crete, Greece.

EDUCATION

2014- 2016	Fellowship in Advanced Imaging Techniques, Clinical Center (CC), National Institutes of Health (NIH), Bethesda, MD, USA.
2011- 2017	PhD Degree, School of Medicine, University of Crete, Greece.
2006 - 2011	Medical Specialty in Nuclear Medicine, University Hospital of Heraklion, Crete, Greece.
2005 - 2007	Master's Degree in Public Health and Health Administration (MPH), School of Medicine, University of Crete, Greece.
1999 - 2005	Medical Degree (MD), School of Medicine, University of Crete, Greece.

PUBLICATIONS & INVITED LECTURES

- 88 Scientific articles in journals indexed in Pubmed.
- 60 Scientific presentations in top international Radiology & Nuclear Medicine meetings.
- 38 Invited lectures in international and national conferences.
- 1 Book chapter in scientific textbook with international circulation.

RESEARCH IMPACT

Google Scholar Metrics*

	ALL	Since 2016
citations	2038	1882
h-index	22	21
i10-index	51	46

**Google Scholar Metrics in November 2022*

HIGHLIGHTED PUBLICATIONS

- Iris R Hartley , Carole B Miller, **Georgios Z. Papadakis** , Clemens Bergwitz , Jaydira Del Rivero, Jenny E Blau, Pablo Florenzano, Jason A Berglund, Jing Tassone, Kelly L Roszko, Susan Moran, Rachel I Gafni, Randi Isaacs, Michael T Collins
  "Targeted FGFR Blockade for the Treatment of Tumor-Induced Osteomalacia."
  The New England Journal of Medicine ***(Impact Factor:91.245)***
  https://doi.org/10.1056/NEJMc2020399
- Amit Tirosh, **Georgios Z Papadakis**, Corina Millo, Dima Hammoud, Samira M Sadowski, Peter Herscovitch, Karel Pacak, Stephen J Marx, Lily Yang, Pavel Nockel, Jasmine Shell, Patience Green, Xavier M Keutgen , Dhaval Patel , Naris Nilubol , Electron Kebebew
  "Prognostic Utility of Total ^{68} Ga-DOTATATE-Avid Tumor Volume in Patients With Neuroendocrine Tumors."
  Gastroenterology ***(Impact Factor:22.682)***
  https://doi.org/10.1053/j.gastro.2017.11.008
- Dima A Hammoud, Afroditi Boulougoura, **Georgios Z Papadakis**, Jing Wang, Lori E Dodd, Adam Rupert, Jeanette Higgins, Gregg Roby, Dorinda Metzger, Elizabeth Laidlaw, JoAnn M Mican, Alice Pau, Silvia Lage, Chun-Shu Wong, Andrea Lisco, Maura Manion, Virginia Sheikh, Corina Millo, Irini Sereti.
  "Increased Metabolic Activity on ^{18}F-Fluorodeoxyglucose Positron Emission Tomography-Computed Tomography in Human Immunodeficiency Virus-Associated Immune Reconstitution Inflammatory Syndrome."
  Clinical and Infectious Diseases. ***(Impact Factor:9.079)***
  https://pubmed.ncbi.nlm.nih.gov/30215671/
- Sanhita Sinharay, Tsang-Wei Tu, Zsofia I Kovacs, William Schreiber-Stainthorp, Maggie Sundby, Xiang Zhang, **Georgios Z. Papadakis**, William C Reid, Joseph A Frank, Dima A Hammoud.
  "In vivo imaging of sterile microglial activation in rat brain after disrupting the blood-brain barrier with pulsed focused ultrasound: [^{18}F]DPA-714 PET study."
  Journal of Neuroinflammation ***(Impact Factor:8.322)***
  https://doi.org/10.1186/s12974-019-1543-z
- Skand Shekhar , Ninet Sinaii, Jorge A Irizarry-Caro, William A Gahl, Juvianee I Estrada-Veras, Rahul Dave, **Georgios Z. Papadakis**, Amit Tirosh, Brent S Abel, Joanna Klubo-Gwiezdzinska, Monica C Skarulis , Bernadette R Gochuico, Kevin O'Brien, Fady Hannah-Shmouni.
  "Prevalence of Hypothyroidism in Patients With Erdheim-Chester Disease."

JAMA Network Open ***(Impact Factor:8.48)***
https://doi.org/10.1001/jamanetworkopen.2020.19169

- Sarfaraz Hussein, Aileen Green, Arjun Watane, David Reiter, Xinjian Chen, **Georgios Z Papadakis**, Bradford Wood, Aaron Cypess, Medhat Osman, Ulas Bagci
  "Automatic Segmentation and Quantification of White and Brown Adipose Tissues from PET/CT Scans."
  IEEE Transactions on Medical Imaging. (2017) 36:734-744. ***(Impact Factor: 10.048)***
  https://pubmed.ncbi.nlm.nih.gov/28114010/
- Ziyue Xu, Mingchen Gao, **Georgios Z Papadakis**, Brian Luna, Sanjay Jain, Daniel J Mollura, Ulas Bagci.
  "*Joint solution for PET image segmentation, denoising, and partial volume correction."*
  Medical Image Analysis. (2018) 46:229-243. ***(Impact Factor:8.545)***
  https://pubmed.ncbi.nlm.nih.gov/29627687/
- **Georgios Z. Papadakis**, Georgios C Manikis, Apostolos H Karantanas, Pablo Florenzano, Ulas Bagci, Kostas Marias, Michael T. Collins, Alison M Boyce.
  "^{18}F-NaF PET/CT imaging in fibrous dysplasia of bone."
  Journal of Bone and Mineral Research. ***(Impact Factor:6.741)***
  https://pubmed.ncbi.nlm.nih.gov/31116487/
- Awais Mansoor, Ulas Bagci, Brent Foster, Ziyue Xu, **Georgios Z Papadakis**, Les R Folio, Jayaram K Udupa, Daniel J Mollura.
  "Segmentation and image analysis of abnormal lungs at CT: current approaches, challenges, and future trends."
  Radiographics. ***(Impact Factor:5.333)***
  https://pubmed.ncbi.nlm.nih.gov/26172351/
- Diala El-Maouche, Samira M Sadowski, **Georgios Z Papadakis**, Lori Guthrie, Candice Cottle-Delisle, Roxanne Merkel, Corina Millo, Clara C Chen, Electron Kebebew, Michael T Collins.
  "^{68}Ga-DOTATATE for tumor localization in tumor-induced osteomalacia."
  Journal of Clinical Endocrinology and Metabolism. ***(Impact Factor:5.958)***
  https://pubmed.ncbi.nlm.nih.gov/27533306/
- Ziyue Xu, Ulas Bagci, Awais Mansoor, Gabriela Kramer-Marek, Brian Luna, Andre Kubler, Bappaditya Dey, Brent Foster, **Georgios Z Papadakis**, Jeremy V Camp, Colleen B Jonsson, William R Bishai, Sanjay Jain, Jayaram K Udupa, Daniel J Mollura.
  "Computer-aided pulmonary image analysis in small animal models."
  Medical Physics. ***(Impact Factor:4.071)***
  https://pubmed.ncbi.nlm.nih.gov/26133591/
- Alexander S Karageorgiadis, **Georgios Z Papadakis**, Juliana Biro, Meg F Keil, Charalampos Lyssikatos, Martha M Quezado, Maria Merino, David S Schrump, Electron Kebebew, Nicholas J Patronas, Maya K Hunter, Mouhammad R Alwazeer, Lefkothea P Karaviti, Andrea E Balazs, Maya B Lodish, Constantine A Stratakis
  "Ectopic adrenocorticotropic hormone and corticotropin-releasing hormone co-secreting tumors in children and adolescents causing Cushing syndrome: a diagnostic dilemma and how to solve it."
  Journal of Clinical Endocrinology and Metabolism. ***(Impact Factor:5.958)***
  https://pubmed.ncbi.nlm.nih.gov/25291050/
- Tsang-Wei Tu, Zsofia I Kovacs, Maggie Sundby, Jaclyn A Witko, **Georgios Z. Papadakis** , William C Reid, Dima A Hammoud, Joseph A Frank.
  "Diffusion tensor imaging and chemical exchange saturation transfer MRI evaluation on the long-term effects of pulsed focused ultrasound and microbubbles blood brain barrier opening in the rat."
  Frontiers in Neuroscience ***(Impact Factor:3.566)***
  https://doi.org/10.3389/fnins.2020.00908.

- William C Reid, Rafael Casas, **Georgios Z Papadakis**, Siva Muthusamy, Dianne E Lee, Wael G Ibrahim, Anand Nair, Deloris Koziol, Dragan Maric, Dima A Hammoud.
  "Neurobehavioral abnormalities in the HIV-1 transgenic rat do not correspond to neuronal hypometabolism on ^{18}F-FDG-PET."
  PLoS One. ***(Impact Factor:3.240)***
  https://pubmed.ncbi.nlm.nih.gov/27010205/

For full publication list please visit the following links:
https://pubmed.ncbi.nlm.nih.gov/?term=papadakis+gz&sort=date
https://scholar.google.com/citations?user=Hes5vroAAAAJ&hl=el

HONORS & AWARDS

2022 **Platinum & Gold Healthcare Business Awards 2022**
For "Innovative Research Infrastructure" regarding the Hybrid Molecular Imaging Unit at FORTH, which is directed by Dr. GZ Papadakis.

2022 **SNMMI 2022 Highlights**
"Quantitative evaluation of Denosumab treatment in fibrous Dysplasia using ^{18}F-NaF PET/CT"
Selected for the highlights of the Society of Nuclear Medicine and Molecular Imaging meeting that took place in Vancouver Canada, June 11-14, 2022.

2021 **International Best Abstract Award**
"Increased metabolic activity of the adrenal glands assessed by ^{18}F-FDG PET/CT in patients with Erdheim-Chester disease associated with the BRAF V600E disease causing variant", Society of Nuclear Medicine and Molecular Imaging (SNMMI) meeting, June 2021.

2020 **Gold Healthcare Business Award 2020**
For the development of Artificial Intelligence framework for the diagnosis of COVID-19 infection
"Advancing COVID-19 differentiation with a robust preprocessing and integration of multi-institutional open-repository computer tomography datasets for deep learning analysis.",
https://www.healthcareawards.gr/

2019 **International Best Abstract Award**
"Positive Association between Fibrous Dysplasia (FD) related ^{18}F-NaF activity and Bone Turnover Markers (BTMs)." Society of Nuclear Medicine and Molecular Imaging (SNMMI) meeting, June 2019.

2019 **HORONARY LECTURE** at the 52nd Panhellenic Opthalmology Conference, Athens, Greece, June 6-8, 2019.

2018 Shortlisted in the **top three e-poster presentations** at the 51st Panhellenic Opthalmology Conference, Thessaloniki, June 2nd 2018.
"Applications of novel hybrid molecular imaging technoques using PET/CT and PET/MR in Opthalmic Oncology".

2015 Publication highlighted by the editor and chosen for **the Cover of the Radiographics Journal, 2015 July-August issue.**
http://pubs.rsna.org/doi/10.1148/rg.2015140232

2014 Selected for the **Cover of the 2014 annual report** of the division of intramural research of the ***Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD),*** Bethesda, MD, USA.
https://annualreport.nichd.nih.gov/2014/

2014 **Certificate of Merit** – *"The State-of -the-Art and Recent Advances in Pulmonary Image Analysis Techniques.",* Radiological Society of North America (RSNA) meeting, December 2014.

2014 **Certificate of Merit** – *"Computerized Detect ion and Classification of Pulmonary Pathologies from CT Images: Current Approaches, Challenges, and Future Trends.",* Radiological Society of North America (RSNA) meeting, December 2014.