Stanford



Rim Malek

Postdoctoral Scholar, Molecular Imaging Program at Stanford

Bio

HONORS AND AWARDS

- U54 Brain MetNet Seed Grant, Stanford Brain Metastasis Consortium (SBMC) (2022)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Universite Franche-Comte Besancon (2019)
- PhD, University of Burgundy Franche-Comté (France), University of Sfax (Tunisia) , Medicinal Chemistry (2019)
- Master of Science, University of Reims Champagne-Ardenne (France) , Chemistry of Natural Substances and Medicines (2015)
- Engineer, National Institute of Applied Sciences and Technology (Tunisia) , Industrial Chemistry (2014)

STANFORD ADVISORS

- Corinne Beinat, Postdoctoral Faculty Sponsor
- Corinne Beinat, Postdoctoral Research Mentor

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My work is focused on the development of small molecules radiotracers for cancer imaging, and small molecules and peptides theranostics for cancer detection, targeted radionuclide therapy, and monitoring of tumor response to therapy.

Publications

PUBLICATIONS

- **Radiolabeling and Preclinical Evaluation of [⁷⁷Br]hGTS13, an xCT-Targeted Small Molecule** *ACS OMEGA*
  Malek, R., Cheung, P., Moses, A., Landry, M., Beinat, C.
  2026
- **Illuminating proinflammatory myeloid cells with PET tracers targeting GPR84.** *Proceedings of the National Academy of Sciences of the United States of America*
  Kalita, M., Kuo, R. C., Straniero, V., Reyes, S. T., Pandrala, M., Lanzini, A., Marsango, S., D'Moore, D., Mahn, P., Setiadi, A., Sundar, M., Mak, S., Nagy, et al
  2026; 123 (21): e2536372123
- **MUC1-targeting small peptide radiopharmaceuticals for breast cancer.** *EJNMMI radiopharmacy and chemistry*
  Malek, R., Landry, M., Cheung, P., Beinat, C.
  2026

- **¹⁸F-MGX-110S detects proinflammatory innate immune responses in human cells and Alzheimer's disease mice with high sensitivity**
  Kalita, M., Kuo, R., Reyes, S., Straniero, V., Nagy, S., D'Moore, D., Sundar, M., Setiadi, A., Mak, S., Tuffley, G., Pandrala, M., Marsango, S., Alam, et al
  ELSEVIER SCIENCE INC.2025

- **Participant metabolic state impacts glioma PET imaging: Translational insights from [18F]DASA-10 and FDG**
  Abdi, S., Moses, A., Malek, R., Cheung, P., Landry, M., Recht, L., Beinat, C.
  OXFORD UNIV PRESS INC.2025: v440

- **Monitoring of cancer ferroptosis with [18F]hGTS13, a system xc- specific radiotracer.** *Theranostics*
  Moses, A., Malek, R., Kendirli, M. T., Cheung, P., Landry, M., Herrera-Barrera, M., Khojasteh, A., Granucci, M., Bukhari, S. A., Hooper, J. E., Hayden-Gephart, M., Dixon, S. J., Recht, et al
  2025; 15 (3): 836-849

- **Synthesis and preclinical evaluation of [¹⁸F]DASA-10 a second generation PKM2 specific radiotracer**
  Beinat, C., Malek, R., Kendrili, M., Acosta, C., Habte, F., Recht, L.
  ELSEVIER SCIENCE INC.2023: S35

- **PET imaging of focused-ultrasound enhanced delivery of AAVs into the murine brain.** *Theranostics*
  Ajenjo, J., Seo, J. W., Foiret, J., Wu, B., Raie, M. N., Wang, J., Fite, B. Z., Zhang, N., Malek, R., Beinat, C., Malik, N., Anders, D. A., Ferrara, et al
  2023; 13 (15): 5151-5169

- **Development of [18F]DASA-10 for enhanced imaging of pyruvate kinase M2.** *Nuclear medicine and biology*
  Kendirli, M. T., Malek, R., Silveira, M. B., Acosta, C., Zhang, S., Azevedo, C., Nagy, S. C., Habte, F., James, M. L., Recht, L. D., Beinat, C.
  2023; 124-125: 108382

- **Biginelli Reaction Synthesis of Novel Multitarget-Directed Ligands with Ca2+ Channel Blocking Ability, Cholinesterase Inhibition, Antioxidant Capacity, and Nrf2 Activation** *MOLECULES*
  Malek, R., Simakov, A., Davis, A., Maj, M., Bernard, P. J., Wnorowski, A., Martin, H., Marco-Contelles, J., Chabchoub, F., Dallemagne, P., Rochais, C., Jozwiak, K., Ismaili, et al
  2023; 28 (1)

- **New Dual Small Molecules for Alzheimer's Disease Therapy Combining Histamine H-3 Receptor (H3R) Antagonism and Calcium Channels Blockade with Additional Cholinesterase Inhibition** *JOURNAL OF MEDICINAL CHEMISTRY*
  Malek, R., Arribas, R. L., Palomino-Antolin, A., Totoson, P., Demougeot, C., Kobrlova, T., Soukup, O., Iriepa, I., Moraleda, I., Diez-Iriepa, D., Godyn, J., Panek, D., Malawska, et al
  2019; 62 (24): 11416-11422

- **Multi-target 1,4-dihydropyridines showing calcium channel blockade and antioxidant capacity for Alzheimer's disease therapy** *BIOORGANIC CHEMISTRY*
  Malek, R., Maj, M., Wnorowski, A., Jozwiak, K., Martin, H., Iriepa, I., Moraleda, I., Chabchoub, F., Marco-Contelles, J., Ismaili, L.
  2019; 91: 103205

- **Synthesis and Biological Evaluation of Novel Chromone plus Donepezil Hybrids for Alzheimer's Disease Therapy** *CURRENT ALZHEIMER RESEARCH*
  Malek, R., Refouvelet, B., Benchelcroun, M., Iriepa, I., Moraleda, I., Andrys, R., Musilek, K., Marco-Contelles, J., Ismaili, L.
  2019; 16 (9): 815-820

- **Synthesis and biological assessment of KojoTacrines as new agents for Alzheimer's disease therapy** *JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY*
  Dgachi, Y., Martin, H., Malek, R., Jun, D., Janockova, J., Sepsova, V., Soukup, O., Iriepa, I., Moraleda, I., Maalej, E., Carmo Carreiras, M., Refouvelet, B., Chabchoub, et al
  2019; 34 (1): 163-170