Stanford

Jun Hyung Park

Other Research Assistant, Radiology - Diagnostic Radiology

Bio

CURRENT ROLE AT STANFORD

I joined in Cyclotron and radiochemstry facility in 2014. I focus on routine radiopharmaceutical production, including 18F tracers (18F-Flumazenil, 18F-FTC-146, 18F-FLT, 18F Arag, 18F-FSPG etc.); 11C tracers (11C UCB-J, 11C-raclopride, 11C-PIB, 11C-methionine, 11C DPA-713 etc.); 15O-H2O and 68Ga-DOTATATE radiochemistry for clinical use and supporting various of pre-clinical studies.

Professional

PROFESSIONAL INTERESTS

Development, optimization of Radiopharmaceuticals,

Radiochemistry,

Cyclotron,

Qualtiy Control

Publications

PUBLICATIONS

- **Carbon-11 labeled BLZ945 as PET tracer for Colony Stimulating Factor 1 Receptor imaging in the brain**
  van der Wildt, B., Miao, Z., Park, J., Reyes, S., Klockow, J., Shen, B., Chin, F.
  WILEY.2019: S487–S488
- **Identifying Hypoperfusion in Moyamoya Disease With Arterial Spin Labeling and an [O-15]-Water Positron Emission Tomography/Magnetic Resonance Imaging Normative Database** *STROKE*
  Fan, A. P., Khalighi, M. M., Guo, J., Ishii, Y., Rosenberg, J., Wardak, M., Park, J., Shen, B., Holley, D., Gandhi, H., Haywood, T., Singh, P., Steinberg, et al
  2019; 50 (2): 373–80
- **Identifying Hypoperfusion in Moyamoya Disease With Arterial Spin Labeling and an [15O]-Water Positron Emission Tomography/Magnetic Resonance Imaging Normative Database.** *Stroke*
  Fan, A. P., Khalighi, M. M., Guo, J., Ishii, Y., Rosenberg, J., Wardak, M., Park, J. H., Shen, B., Holley, D., Gandhi, H., Haywood, T., Singh, P., Steinberg, et al
  2019: STROKEAHA118023426
- **Simultaneous phase-contrast MRI and PET for noninvasive quantification of cerebral blood flow and reactivity in healthy subjects and patients with cerebrovascular disease.** *Journal of magnetic resonance imaging : JMRI*
  Ishii, Y., Thamm, T., Guo, J., Khalighi, M. M., Wardak, M., Holley, D., Gandhi, H., Park, J. H., Shen, B., Steinberg, G. K., Chin, F. T., Zaharchuk, G., Fan, et al
  2019
- **Striatal dopamine deficits predict reductions in striatal functional connectivity in major depression: a concurrent C-11-raclopride positron emission tomography and functional magnetic resonance imaging investigation** *TRANSLATIONAL PSYCHIATRY*

Hamilton, J., Sacchet, M. D., Hjornevik, T., Chin, F. T., Shen, B., Kampe, R., Park, J., Knutson, B. D., Williams, L. M., Borg, N., Zaharchuk, G., Camacho, M., Mackey, et al
2018; 8

- **COMPARISON OF THREE METABOLIC PET RADIOTRACERS IN GLIOBLASTOMA: CELL CULTURE AND ANIMAL STUDIES**
  Beinat, C., Patel, C., Murty, S., Haywood, T., Park, J., Xie, Y., Gambhir, S.
  OXFORD UNIV PRESS INC.2018: 34

- **F-FTC-146 in humans.** *Journal of nuclear medicine*
  Hjørnevik, T., Cipriano, P. W., Shen, B., Hyung Park, J., Gulaka, P., Holley, D., Gandhi, H., Yoon, D., Mittra, E. S., Zaharchuk, G., Gambhir, S. S., McCurdy, C. R., Chin, et al
  2017

- **F]FTC-146.** *Molecular imaging and biology*
  Shen, B., Park, J. H., Hjørnevik, T., Cipriano, P. W., Yoon, D., Gulaka, P. K., Holly, D., Behera, D., Avery, B. A., Gambhir, S. S., McCurdy, C. R., Biswal, S., Chin, et al
  2017

- **Long-Delay Arterial Spin Labeling Provides More Accurate Cerebral Blood Flow Measurements in Moyamoya Patients: A Simultaneous Positron Emission Tomography/MRI Study.** *Stroke*
  Fan, A. P., Guo, J., Khalighi, M. M., Gulaka, P. K., Shen, B., Park, J. H., Gandhi, H., Holley, D., Rutledge, O., Singh, P., Haywood, T., Steinberg, G. K., Chin, et al
  2017; 48 (9): 2441–49

- **Image-derived input function estimation on a TOF-enabled PET/MR for cerebral blood flow mapping.** *Journal of cerebral blood flow and metabolism*
  Khalighi, M. M., Deller, T. W., Fan, A. P., Gulaka, P. K., Shen, B., Singh, P., Park, J., Chin, F. T., Zaharchuk, G.
  2017: 271678X17691784-?

- **receptor.** *EJNMMI research*
  Palner, M., Beinat, C., Banister, S., Zanderigo, F., Park, J. H., Shen, B., Hjoernevik, T., Jung, J. H., Lee, B. C., Kim, S. E., Fung, L., Chin, F. T.
  2016; 6 (1): 80-?

- **Studying GABA Neurophysiology by Simultaneous [18F]Flumazenil-Positron Emission Tomography and Magnetic Resonance Spectroscopy**
  Fung, L., Gu, M., Leuze, C., Hjoernevik, T., Shen, B., Park, J., Flores, R., Reyes, S., Holley, D., Gandhi, H., Jung, J., Lee, B., Kim, et al
  NATURE PUBLISHING GROUP.2016: S209

- **Effects of common anesthetic agents on [F-18] flumazenil binding to the GABA(A) receptor** *EJNMMI RESEARCH*
  Palner, M., Beinat, C., Banister, S., Zanderigo, F., Park, J. H., Shen, B., Hjoernevik, T., Jung, J. H., Lee, B. C., Kim, S. E., Fung, L., Chin, F. T.
  2016; 6

- **Optimization of 15O-H2O dose for cerebral blood flow imaging on a time-of-flight PET/MR scanner**
  Deller, T., Khalighi, M., Fan, A., Singh, P., Park, J., Hoehne, A., Shen, B., Chin, F., Zaharchuk, G.
  SOC NUCLEAR MEDICINE INC.2016

- **Cerebral Blood Flow Imaging with 15O-H2O PET/MR-Review and Workflow Optimization**
  Gandhi, H., Holley, D., Fan, A., Gulaka, P., Mittra, E., Shen, B., Singh, P., Park, J., Chin, F., Zaharchuk, G.
  SOC NUCLEAR MEDICINE INC.2016

- **Image-based arterial input function estimation for cerebral blood flow measurement on a PET/MR scanner**
  Khalighi, M., Fan, A., Delso, G., Singh, P., Park, J., Hoehne, A., Shen, B., Chin, F., Zaharchuk, G.
  SOC NUCLEAR MEDICINE INC.2016

- **PET imaging of tumor glycolysis downstream of hexokinase through noninvasive measurement of pyruvate kinase M2.** *Science translational medicine*
  Witney, T. H., James, M. L., Shen, B., Chang, E., Pohling, C., Arksey, N., Hoehne, A., Shuhendler, A., Park, J., Bodapati, D., Weber, J., Gowrishankar, G., Rao, et al
  2015; 7 (310): 310ra169-?

- **PET imaging of tumor glycolysis downstream of hexokinase through noninvasive measurement of pyruvate kinase M2.** *Science translational medicine*
  Witney, T. H., James, M. L., Shen, B., Chang, E., Pohling, C., Arksey, N., Hoehne, A., Shuhendler, A., Park, J., Bodapati, D., Weber, J., Gowrishankar, G., Rao, et al
  2015; 7 (310): 310ra169-?

- **Clinical grade [F-18]FTC-146: Radiosynthesis of sigma-1 receptor ligand for human PET studies**
  Shen, B., Park, J., Arksey, N. C., McCurdy, C. R., Chin, F. T.
  WILEY-BLACKWELL.2015: S253

- **Routine Production of [F-18]Flumazenil from Iodonium Tosylate Using a Sample Pretreatment Method: a 2.5-Year Production Report** *MOLECULAR IMAGING AND BIOLOGY*
  Moon, B., Park, J., Lee, H., Lee, B., Kim, S.
  2014; 16 (5): 619–25

- **Facile aromatic radiofluorination of [F-18]flumazenil from diaryliodonium salts with evaluation of their stability and selectivity** *ORGANIC & BIOMOLECULAR CHEMISTRY*
  Moon, B., Kil, H., Park, J., Kim, J., Park, J., Chi, D., Lee, B., Kim, S.
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- **Highly efficient production of [F-18]fallypride using small amounts of base concentration** *APPLIED RADIATION AND ISOTOPES*
  Moon, B., Park, J., Lee, H., Kim, J., Kil, H., Lee, B., Chi, D., Lee, B., Kim, Y., Kim, S.
  2010; 68 (12): 2279–84

- **Intensification of the KOTRON-13 Cyclotron by Optimizing the Ion Source** *JOURNAL OF THE KOREAN PHYSICAL SOCIETY*
  Lee, B., Lee, H., Park, J., Moon, B., Kim, S., Lee, W., Jung, K., Chae, S., Km, J.
  2010; 57 (6): 1376–80