

## 教員プロフィール

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専門分野：医学物理学

研究テーマ：PET システムとその付随技術

- 業績：・ Satoshi Iguchi, Tetsuaki Moriguchi, Makoto Yamazaki, Yuki Hori, Kazuhiro Koshino, Kazunori Toyoda, Jarmo Teuho, Saeka Shimochi, Yusuke Terakawa, Tetsuya Fukuda, Jun C. Takahashi, Jyoji Nakagawara, Shigehiko Kanaya and Hidehiro Iida: “System evaluation of automated production and inhalation of  $^{15}\text{O}$ -labeled gaseous radiopharmaceuticals for the rapid  $^{15}\text{O}$ -oxygen PET examinations”, *EJNMMI Physics*, 5:37, 2018
- ・ Temma, T., Kawashima, H., Kondo, N., Yamazaki, M., Koshino, K., & Iida, H.: “One-pot enzymatic synthesis of l-[3- $^{11}\text{C}$ ] lactate for pharmacokinetic analysis of lactate metabolism in rat brain”, *Nuclear medicine and biology*, 64, 28-33, 2018
- ・ Temma, T., Yamazaki, M., Miyanochara, J., Shirakawa, H., Kondo, N., Koshino, K., ... & Iida, H.: “Sequential PET estimation of cerebral oxygen metabolism with spontaneous respiration of  $^{15}\text{O}$ -gas in mice with bilateral common carotid artery stenosis”, *Journal of Cerebral Blood Flow & Metabolism*, 2017
- ・ Hashimoto, T., Yokota, C., Koshino, K., Temma, T., Yamazaki, M., Iguchi, S., ... & Minematsu, K.: “Binding of  $^{11}\text{C}$ -Pittsburgh compound-B correlated with white matter injury in hypertensive small vessel disease”, *Annals of Nuclear Medicine*, 31(3), 227-234, 2017
- ・ Makoto Yamazaki, Tohru Takeshita and Yoji Hasegawa: “Analysis of MPPCs with LFS and its applications for PET system”, *Journal of Instrumentation* 8, p.2018
- ・ Makoto Yamazaki, Tohru Takeshita, Yoji Hasegawa: “Next-Generation PET capability with Lutetium Fine Silicate and Multi-Pixel Photon Counter”, *Journal of Instrumentation* 7, p.10014

その他複数。

在学生にひとこと：医療だけでなく日常生活の中には多くの物理現象が隠れています。それをヒントにしながら楽しく物理学を学んでください。