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Office of Technology Management

NEW PARP-1 INHIBITORS FOR IMAGING PARP-1 EXPRESSION IN VIVO

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T-018730

[^{18}F]WC-DZ-F is a derivative of [^{18}F]FluorThanatrace and a radiotherapeutic agent. [^{18}F]WC-DZ-F has suitable biodistribution profile, favourable logP and super metabolic stability in vivo. We have demonstrated that [^{18}F]WC-DZ-F is capable of imaging PARP-1 expression in PC-3 prostate cancer xenograft tumor in small animal. [^{18}F]WC-DZ-F can be a replacement of [^{18}F]FluorThanatrace in the imaging of PARP-1 expression.