

Australia's Telix spins off Rhine Pharma to expand global access to radiopharmaceuticals

23 October 2024 | News

Rhine Pharma formed following a collaboration between Telix and Heidelberg University Hospital



Australia-based Telix Pharmaceuticals has announced the spin-off of Rhine Pharma, which has the mission of expanding global access to innovative radiopharmaceuticals for cancer imaging and treatment using two generator-produced isotopes, technetium-99m (99mTc) and rhenium-188 (¹⁸⁸Re).

Rhine Pharma was formed following a collaboration between Telix and Heidelberg University Hospital (UKHD), which aimed to develop a PSMA-targeting small molecule that could be labelled with either 99mTc for SPECT imaging, or ¹⁸⁸Re for radioligand therapy.

The collaboration successfully created a potential next-generation theranostic compound, RHN001, which Rhine Pharma is now advancing into a novel Phase I/IIa theranostic clinical study (the 'RHINO Trial'), exploring the safety profile and efficacy of both 99mTc-RHN001 and ¹⁸⁸Re-RHN001 in patients with advanced prostate cancer.

Because 99mTc and ¹⁸⁸Re can each be produced using on-site generators, they enable a highly-differentiated solution for regions with limited radiopharmaceutical manufacturing infrastructure or dispersed populations. 99mTc enables imaging of patients with widely available SPECT scanners, while ¹⁸⁸Re has demonstrated potential as a therapeutic isotope, thanks to its high-energy beta emission that maximises damage to tumour cells. Its short half-life (16.9 hours) also has the potential to simplify patient workflows in busy treatment centres with high patient demand or limited nuclear waste management capabilities.