

Oncoinvent AS
Gullhaugveien 7
N-0484 Oslo, Norway

Tlf: (+47) 22 18 33 05
oncoinvent@oncoinvent.com
Org. nr. 995764458
www.oncoinvent.com

Oncoinvent: A novel method for making ^{212}Pb -labeled monoclonal antibodies using a novel ^{224}Ra -based generator solution

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Press Release 05.2017: Oncoinvent researchers collaborate to develop a system to generate alpha-particle releasing radioimmunoconjugates that may be simpler and less time-consuming compared with current established methods used in clinical trials.

Oslo 16. May 2017

Oncoinvent is pleased to announce today that the results of a collaboration between Oncoinvent and Sciencons researchers have been published in the Journal of Nuclear Medicine and Biology.

Alpha-particles have the potential to kill tumor cells very effectively and selectively. The radioisotope ^{212}Pb , which causes the release of alpha-particle, has a half-life of 10.6 h which imposes time constraints to its practical application as a radioimmunoconjugate for cancer therapy. The focus of the published research was to determine whether a rapid, efficient, and reliable production and purification procedure for generating a ^{212}Pb based radioimmunoconjugate could be developed.

Key Conclusion:

The current work demonstrates the feasibility of using a ^{224}Ra solution as a shippable generator solution for producing ^{212}Pb -based radioimmunoconjugates, which may be easier to execute and less time-consuming for the end user in comparison with existing ion exchange based methods.

A free access copy of the article can be obtained through the online version of the journal: <http://www.sciencedirect.com/science/journal/09698051>

About Oncoinvent

Oncoinvent AS is a privately held Norwegian company based in Oslo, Norway. The company is committed to developing new innovative products to provide better treatment options to cancer patients.

The company's founders started Oncoinvent in 2010 with a view to designing better cancer treatments by applying known physical and chemical principles of selected novel materials in new ways to maximize their medical benefit while minimizing potential safety concerns. This approach has allowed the company to develop a rich development pipeline and to explore multiple technological avenues before selecting a lead product candidate for preclinical testing.

The company is currently in late stage preclinical testing with its lead product candidate Radspherin®.

For further information, please contact:

Jan A. Alfheim, Chief Executive Officer

Cell: +47 46 44 00 45

Email: alfheim@oncoinvent.com

IR enquiries:

Ole Peter Nordby, Chief Financial Officer

Cell: +47 41 28 71 79

Email: nordby@oncoinvent.com