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A Creative Vision for the Future

Advancements in the Chemistry of Targeted Alpha Therapy

Symposium Organizers: Dr. D. Scott Wilbur, dswilbur@uw.edu; Dr. Paul Schaffer, pschaffer@triumf.ca; and Dr. Shigeki Watanabe, watanabe.shigeki@gst.go.jp

The focus of this symposium is on advancements in chemistry associated with targeted alpha therapy (TAT) for treatment of human diseases. Targeted alpha therapy holds great potential for treatment of disseminated cancers, chemoresistant bacterial infections and viral infections. In this promising treatment approach, alpha-emitting radionuclides are combined with targeting agents to selectively kill targeted cells in patients.

The overall objective of the symposium is to have presentations and discussions on recent chemical advancements in the development of TAT agents. Presentations will highlight advances in: (a) production of alpha-emitting radionuclides that have properties suitable for in vivo use, (b) chemical processes that provide efficient isolation and purification of alpha-emitting radionuclides from natural or man-made sources, including automated processes, (c) chemical studies of efficient and stable bonding or chelation of alpha-emitting radionuclides to targeting agents, and (d) preclinical evaluations of alpha-emitters coupled to targeting agents to demonstrate in vivo stability, targeting efficiency and therapeutic efficacy.

