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# Pacificchem 2021

The International Chemical Congress of  
**PACIFIC BASIN SOCIETIES 2021**

Honolulu, Hawaii, USA; December 16 – 21, 2021



*A Creative Vision for the Future*

## Innovative Technologies for Production, Purification, Analysis and in Vitro Evaluation of Radiopharmaceuticals (#195)


Symposium Organizers: Dr. R. Michael van Dam, [mvandam@mednet.ucla.edu](mailto:mvandam@mednet.ucla.edu); Dr. Giancarlo Pascali, [gianp@ansto.gov.au](mailto:gianp@ansto.gov.au); Dr. Yuji Kuge, [kuge@ric.hokudai.ac.jp](mailto:kuge@ric.hokudai.ac.jp)

Preparation of short-lived radiopharmaceuticals for imaging or therapy requires significant automation. As demand and variety of radiopharmaceuticals in use continue to increase, there is renewed interest in improving the technologies used for their production.

For example, microfluidics and flow chemistry offer many advantages that can improve the yields and decrease the cost of producing radiopharmaceuticals. Recently, research in this area has been expanding to include upstream (e.g. radioisotope separation and concentration) and downstream processes (e.g. purification, formulation, analysis). Other recent innovations include automated QC testing and modular systems that increase equipment versatility. Evaluation of pharmacologic properties of radiopharmaceuticals in cell cultures or single cells via microfluidic radioassays is also now possible.

This symposium will highlight the progress made in radiochemistry technology innovations and the challenges to be addressed to bring these concepts into mainstream use.

**PACIFICHEM 2020: → 2021:**  
**A CREATIVE VISION FOR THE FUTURE**



For the safety of our attendees and the surrounding community, the Pacificchem 2020 Congress has been rescheduled as the **Pacificchem 2021**. Please join us Dec. 16-21, 2021 in Honolulu, Hawaii, USA.