

NKRV Newsletter

December 2022



Dear NKRV members,

In this newsletter we will inform you about the upcoming NKRV activities and other topics that might be of interest. If you have items to be listed in the next newsletter or on our website, please contact us via info@nkrv.nl. Your input and ideas will be appreciated.

NKRV Workshop 2023

Save the date! The upcoming NKRV workshop will be 20th of January 2023 at the Amsterdam UMC Imaging Center. The programme is attached to this newsletter. To register, please click [here](#). We are looking forward and hope to see you all in Amsterdam!



Look back to the NKRV Workshop June 2022 in Groningen

After 2 years, it was finally possible again! This time the NKRV meeting was held in Groningen in Paleis-Lab-050, the former chemistry laboratory. Approximately 100 participants attended the meeting, from all corners from the Netherlands and different disciplines, like chemistry, biology, pharmacy.

After the introduction by the chairman of the NKRV board, there was Educational Session on alpha-emitters, by Dr. Erik de Blois. Then there were three round the table discussions; New F-18 chemistry- Dr. Gert Luurtsema, Radiochemistry and practical aspects of alpha-emitters- Dr. Erik de Blois and Practical aspects of clinical translation of new radiopharmaceuticals- Dr. Danielle Vugts.

After lunch, there was an interesting lecture by Dr Bart Cornelissen on “Targeting DNA Damage”, followed by the most interactive part of the day, short pitches of researchers and a poster walk. The meeting was closed with drinks and a delicious BBQ in the garden



The best pitch and poster presentations were awarded with an Elysia travel grant. The 2022 winners were:

Jury prize: Frank van der Aa, research technician, Amsterdam UMC (500 Euro)

Audience awards: Chantal Kwizera, research technician UMCG (200 Euro) and Merel Hendriks, Master student, Radboudumc (100 Euro). Because of a very close finish, Caroline Ntihakosa got the third audience award (box of chocolates).



Awarded Travel funding 2022

In 2022, the NKRV supported ten young scientists to present their research at international conferences:

Eline Hooijman, ErasmusMC, EANM;

- *Quality control of therapeutic radiopharmaceuticals: a radio-TLC and HPLC analysis comparison, exemplified by clinical implementation of [¹⁷⁷Lu]Lu-PSMA*
- *Practical aspects of the (clinical) implementation of Ac-225 labelled radiopharmaceuticals*

Circe van der Heide, ErasmusMC, EANM;

- *Novel fibroblast activation protein targeting radioligands for improved theranostic application*

Gerwin Sandker, Radboudumc, EANM;

- *Pharmacokinetic imaging and therapeutic efficacy of the bispecific CD3xTRP-1 antibody in syngeneic mouse tumor models*
- *Head-to-head comparison of nuclear imaging approaches to quantify tumor CD8+ T-cell infiltration*

Simone Kleinendorst, Radboudumc, EANM;

- *Preclinical evaluation of targeted radionuclide therapy combined with immune checkpoint inhibition*

Tyrrillshall Damiana, ErasmusMC, EANM;

- *Preclinical comparison of NeoB and RM2: Which GRPR-targeting radiotracer is most optimal for targeted radionuclide therapy?*
- *Doxorubicin pre-treatment alters radiosensitivity and GRPR radiotracer uptake of breast cancers cells*



Erika Murce Silva, ErasmusMC, EANM;

- *Radiochemical and preliminary biological comparison of a 3p-C-NETA-PSMA and a DOTA-GA-PSMA derivative*

Maria Johanna Klomp, ErasmusMC, EANM;

- *Modulating the Epigenetic Machinery for Increased SSTR2 Expression in Small-Cell Lung Cancer Cell*

Pascal Mossel, GroningenUMC, EANM;

- *Investigation of an Image Derived Input Function to measure P-glycoprotein function at the human blood-brain barrier using [¹⁸F]MC225 and PET*

Chantal Kwizera, GroningenUMC, EANM;

- *Simplified [¹⁸F]fluorodestannylation Approach For The One-pot Production Of 6-L-[¹⁸F]FDOPA With the Synthera Module*

Marjolein Verhoeven, ErasmusMC, WMIC;

- *Full Preclinical Characterization of a Novel Bimodal Probe for Image-guided Surgery of GRPR-positive Cancer*

New NKRV board member

In 2023, we are looking for a new enthusiastic NKRV board member. If you are interested to join us, this is the moment! Please send a short motivation letter and two letters of support from NKRV members to info@nkrv.nl. If you have questions, do not hesitate to contact us via e-mail or during the upcoming NKRV workshop. Deadline for application is 15th of February 2023.

Summary and impressions of the ¹⁸F chemistry course

The ¹⁸F chemistry course, given by Prof. P.H. Elsinga and Prof. A.D. Windhorst, provides a good overview of the basics of radioactive fluor chemistry, and is both informative and fun. The theoretical part of the course covers ¹⁸F production, reactivity, as well as precursor design, while also discussing practical aspects like handling, automation and work up of ¹⁸ reactions. The practical part provides a hands-on experience for beginning ¹⁸F chemists with a manual synthesis and analysis of an ¹⁸F-labelled small molecule, with a thorough group discussion afterwards. All in all, I can highly recommend this course to anyone interested in doing ¹⁸F chemistry themselves or those that seek to further expand their knowledge of the radiochemistry field. *Bram Weijers-Verduin (course participant)*





New opportunities for travel funding 2023

Travel funding is available for NKRV members to attend (inter)national conferences to showcase your research! You are member of NKRV when you have attended at least one of the NKRV workshops in the past year.

We are happy to inform you that the NKRV has reserved 5,000 Euro to sponsor the attendance of PhD students, post-docs, and technicians to present their research at radiochemistry conferences in 2023. A maximal amount of 500 euro can be requested per applicant per year. To apply, please visit our [website](#).



Meetings and workshops in 2023

There are a lot of opportunities to participate in interesting symposia, these include:

- 27th February – 2nd March: Targeted Alpha Therapy Meeting (TAT), Cape Town, South Africa ([more info](#))
- 13th – 14th March: International workshop on Radiobiology of Molecular Radiotherapy (**MRT**), London, UK ([more info](#))
- 14th – 17th March: European Molecular Imaging Meeting (**EMIM**) in Salzburg, Austria ([more info](#))
- 7th-12th May: International Conference on Radioanalytical and Nuclear Chemistry, Budapest, Hungary ([more info](#))
- 22nd – 26th May: International Symposium on Radiopharmaceutical Chemistry (**iSRS**), Honolulu, Hawaii ([more info](#))
- 24th – 27th June: Society of Nuclear Medicine and Molecular Imaging Annual Meeting (**SNMMI**), Chicago, USA ([more info](#))
- 5th – 9th September: World Molecular Imaging Conference (**WMIC**), Prague, Czech Republic
- 9th – 13th September: European Nuclear Medicine Meeting Annual Meeting (**EANM**), Vienna, Austria ([more info](#))

Open positions

Are you looking for a new colleague? We can post your vacancy on our website. For more information, please contact info@nkrv.nl. Are you looking for a new position yourself, please have a look [here](#).

NKRV sponsors 2022



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