20th Meeting of the International Research group in Immuno-Scintigraphy and Therapy

7-10 April 2010
Groningen, The Netherlands

FINAL PROGRAM
Welcome

We are very happy that you will take part in the 20th International Congress of IRIST. IRIST (the International Research group in Immuno-Scintigraphy and Therapy) is a non-profit association of scientists of all disciplines in the area of diagnosis and therapy of malignancies by means of radiopharmaceuticals and related topics. The aim of the association is to promote research in this field, to offer opportunities to young researchers, to resolve controversial issues and to exchange findings worldwide. IRIST was founded in 1986 by different European leading groups. Nowadays IRIST has more than 350 members from the United States, Canada, South America, Japan, Europe, Asia and Australia.

In the past IRIST has hosted many remarkable conferences, of which the last one in Krakow is still fresh in our memory. This time the meeting will be held in the city of Groningen (180,000 inhabitants) in the North-East of The Netherlands. Although the city is already over 900 years old, it has a young and vibrant atmosphere, due to the presence of different institutions for higher education, including a university dating back to 1614 (which is by the way the second oldest in the country). The motto of the city is “Groningen, City of Talent”.

The meeting itself will take place in the University Medical Center (UMCG), the largest hospital in The Netherlands with over 1300 beds and almost 10000 personnel. Apart from the high scientific standards, the UMCG has a remarkable modern architecture. The architecture reflects its philosophy that a patient through illness and hospitalization is hampered in participating in society. The hospital should therefore be open to the outer world and inviting. Indeed, the hospital has been proclaimed the most beautiful hospital in the world.

During the meeting invited lectures will be presented in the field of immunoscintigraphy and nuclear medicine therapy by experts in the field. In addition young researchers will present the fruit of their labors as an oral presentation or a poster.

We are confident that Groningen will again be a ‘city of talent’ during this IRIST meeting.

Prof. R.A.J.O. Dierckx

Organising Committee

Prof. Rudi A.J.O. Dierckx, Congress President
Prof. Philip H. Elsinga
Dr Marjolijn N. Lub-de Hooge
Dr Jan Pruim

Dr Adrienne H. Brouwers
Ms Ineke ten Have
Prof. Anne M.J. Paans
Mr Klaas-Willem Sietsma
### Venue

The congress will be held in the University Medical Center Groningen (UMCG) in the Red Hall (Rode Zaal), which is located centrally in the hospital on the 2nd floor. Drinks and lunches, including the welcome reception on Wednesday, will be served in the Fountain Patio. Here also the industrial exhibition is situated.

University Medical Center Groningen  
Hanzeplein 1  
9713 GZ Groningen  
Tel: +31 (0)50 361 22 05  
e-mail: info@irist.umcg.nl

### Who should attend?

The meeting has special relevance for nuclear medicine physicians, oncologists, pharmacists, radiochemists and basic scientists, but it is useful for all who are involved in diagnosis and therapy of malignancies by means of radiopharmaceuticals and related topics.

### Objectives

After attending the meeting, participants will have:

- Knowledge on molecular imaging techniques
- Enough background to estimate the role of radiopharmaceuticals in diagnosis and treatment of cancer
- Recognition of the current and future directions of the field.

### IRIST Board

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
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<tbody>
<tr>
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<td>IRIST President</td>
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<tr>
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<td>IRIST Secretary</td>
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<td>Editor IRIST section of QJNM</td>
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<td>Marjolijn N. Lub-de Hooge</td>
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### Program

#### Wednesday, April 7, 2010

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>16.00</td>
<td>Congress registration</td>
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| 16.45 | Welcome: Prof. R.A.J.O. Dierckx, Congress President  
Opening: Prof. F. Kuipers, dean UMCG (to be confirmed) |

#### Session 1: Opening session

**Moderator: Prof. R.A.J.O. Dierckx**

<table>
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<tr>
<th>Time</th>
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<tr>
<td>17.00</td>
<td>Inaugural IRIST lecture: Adrenal gland tumours and paragangliomas: currently available radionuclide therapy and potential targets. Prof. A. Hubalewska-Dydejczyk, Krakow, president of IRIST</td>
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<tr>
<td>18.00</td>
<td>Welcome reception, Fountain Patio</td>
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<tr>
<td>18.30</td>
<td>During the reception there will be a concert by young talent from Groningen.</td>
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#### Thursday, April 8, 2010

#### Session 2: Peptide receptor imaging

**Moderator: Prof. C. van der Wiele**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>09.00</td>
<td>Invited: Preclinical comparison of 12 CCK-gastrin analogs for imaging and radionuclide therapy of CCK-2 expressing tumours. Prof. Marion de Jong, Rotterdam</td>
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<td>09.25</td>
<td>Invited: Folic acid conjugates for folate receptor targeted radioimaging and potential radionuclide therapy, Dr C. Müller, Villigen</td>
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<td>09.50</td>
<td>Invited: Optical imaging of folate receptor, Dr G. van Dam, Groningen</td>
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<tr>
<td>10.10</td>
<td>Invited: Peptide receptor imaging of prostate cancer with radiolabelled bombesin analogues, Dr I.J. de Jong, Groningen</td>
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<tr>
<td>10.30</td>
<td>Coffee break</td>
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</table>
Session 3: Radionuclide therapy and Immunotherapy  
Moderator: Prof. Marion de Jong

11.00 Invited: Receptor imaging and therapy in prostate cancer, Prof. S.J. Goldsmidt, New York
11.25 Invited: Microspheres, Prof. C. van der Wiele, Ghent
11.50 Invited: Fighting Cancer and Heart Disease in the 21st Century: new LEU cyclotron production pathways for HSA Mo-99 and other radionuclides, Dr M. Oliver, West Richland

12.30 - 13.30 Lunch and poster viewing

Session 4: Radionuclide therapy and Immunotherapy  
Moderator: Prof. W.J.G. Oyen

13.30 Invited: Targeted radiotherapy of HER2 expressing malignancies with alpha emitters, Prof. M. Zalutsky, Durham
14.00 Invited: Individual biological effective dose estimates - influences of parameter variations, Dr P. Bernardt, Göteborg
15.00 Invited: Clinical Trial Evaluation of Combination ChemoRadionuclide Therapy, Prof. H. Turner, Freemantle

15.30 - 16.25 Coffee break

Session 5: Immunoscintigraphy of inflammatory and autoimmune diseases  
Moderator: Dr E.F.J. de Vries

16.25 Invited: Imaging autoimmune diseases with peptides and antibodies, deeper and deeper. Prof. A. Signore, Rome
16.50 Invited: PET/CT imaging in HIV/Tuberculosis. Prof. M. Sathekge, Pretoria

18.00 - 19.00 IRIST General Member’s Assembly

Friday, April 9, 2010

Session 6: Hot topic: Diagnosis and therapy in Thyroid Cancer  
Moderator: Dr A.H. Brouwers

09.00 Invited: Diagnostic and therapeutic and dilemmas in thyroid cancer, Prof. T.P. Links
09.25 Invited: The role of 124I-PET in diagnosis and treatment of thyroid carcinoma, Dr B. Brans, Maastricht
09.50 Oral presentation: F. Galli, G. Malviya, G. Curiotto, A. Signore, Rome: 99mTc labelling of a new superagonist of hTSH to image thyroid cancer metastases

10.20 - 11.00 Coffee break and poster viewing

Session 7: Poster discussion session  
Moderators: Prof. C. van der Wiele, Prof. A. Signore, Prof. S.J. Goldsmidt

11.00 Authors are kindly requested to be at their posters for discussion

12.30 Lunch

Session 8: Immunoscintigraphy and ImmunoPET (preclinical)  
Moderator: Dr J.G.W. Kosterink

14.00 Invited: ImmunoPET: shedding light on clinical antibody therapy, Prof. G.A.M.S. van Dongen, Amsterdam
14.25 Invited: 89Zr-labeled monoclonal antibodies for evaluation of targeted anti-angiogenic drugs. Dr M.N. Lub-de Hooge, Groningen
14.50 Sub-half-mm Resolution Single Photon Emission Tomography of Molecules and Organs in Action. Prof.F. Beekman, Delft

15.30 Coffee break and poster viewing
Session 9: ImmunoPET (clinical) Towards individualised targeted therapy
Moderator: Prof. S.J. Goldsmidt

16.00 Invited: ImmunoPET for clinical decision making in oncology, Dr C.P. Schröder, Groningen
16.25 Invited: Bordet experience with ⁸⁹Zr-rituximab in lymphoma patients, Dr K. Muylle, Brussels
16.50 Invited: Quantitative PET imaging with I-124 and Zr-89 for targeted cancer therapy, Dr M. Lubberink, Amsterdam

Saturday April 10, 2010

Session 10: Peptide-receptor radionuclide scintigraphy and therapy
Moderator: Prof. A. Hubalewska-Dydejczyk

09.00 Invited: Peptide-receptor radionuclide therapy for endocrine tumours, Dr D.J. Kwekkeboom, Rotterdam
09.25 Invited: Receptor PET/CT imaging of neuroendocrine tumours using Ga-68 labelled peptides - current state and future perspectives, Dr V. Prasad, Bad Berka
09.50 Invited: Designing scaffold-based proteins for radionuclide diagnostics and therapy: influence of size, affinity and labelling chemistry on tumour targeting using Affibody molecules. Dr V. Tolmachev, Uppsala
10.30 Closing lecture: Prof. G.A. Wiseman, Rochester, Minnesota, USA
11.00 Closing ceremony and prize giving
11.30 Farewell lunch

Invited Speakers

Prof. Freek Beekman, Milabs BV/Delft University of Technology, The Netherlands
Dr Peter Bernardt, University of Gothenburg, Sahlgrenska University Hospital, Göteborg, Sweden
Dr Boudewijn Brans, Department of Nuclear Medicine, University Hospital Maastricht, Maastricht, The Netherlands
Dr John Buscombe, Department of Nuclear Medicine, Royal Free Hospital, London, United Kingdom
Dr Go M. van Dam, Department of Surgery/BioOptical Imaging Center Groningen, University Medical Center Groningen, Groningen, The Netherlands
Prof. Rudi A.J.O. Dierckx, Chairman Department of Nuclear Medicine and Molecular Imaging, University Medical Center Groningen, Groningen, The Netherlands
Prof. Guus A.M.S. van Dongen, Department of Otolaryngology/Head and Neck Surgery, VU Medical Center, Amsterdam, The Netherlands
Prof. Stanley J. Goldsmidt, Department of Nuclear Medicine, New York Presbyterian Hospital/Weill Cornell Medical Center, New York - USA
Prof. Alicja Hubalewska-Dydejczyk, Jagiellonian University, Medical College, Krakow, Poland
Dr Igle Jan de Jong, Department of Urology, University Medical Center Groningen, The Netherlands
Prof. Marion de Jong, Department of Nuclear Medicine, Erasmus Medical Center, Rotterdam, The Netherlands
Prof. Folkert Kuipers, Dean, University Medical Center Groningen, The Netherlands
Dr Dik J. Kwekkeboom, Department of Nuclear Medicine, Erasmus Medical Center, Rotterdam, The Netherlands
Prof. Thera P. Links, Department of Endocrinology, University Medical Center Groningen, The Netherlands
Reception Concert

We pride ourselves to have been able to invite 2 young talents from the Groningen conservatoire to play for us during the Reception on Wednesday. Both soloists will be accompanied by Irina Osetskaya, piano.

Liesbeth Bosboom, cello (1995)
Liesbeth plays the cello from the age of 7 with Corine ‘t Hoen as her teacher. At the moment she is in the Young Talents Class of the Prince Claus Conservatoire in Groningen. In addition she has had master classes from Jiri Prchal, Michel Strauss, Richard Aaron and Jan-Ype Nota. Liesbeth likes to play chamber music and as a member of a junior string quartet she had a master class from the renowned Bennewitz Quartet. Since 2008 she plays in the Haydn Youth String Orchestra in Groningen.

When she was 9 years old Liesbeth both won First Prize and the Audience Award at the Haydn Music Festival. At the age of 12 she won the Peter the Great Award. As a result she participated in the Peter the Great Festival, both as a soloist and as a member of a piano trio. In 2009 Liesbeth won Second Price as a soloist during the Regional Finals of the Princess Christina Contest. In 2010 she participated again, winning First Price. As a result she will play in the National Finals on April 10, 2010.

Marijke Hester Mulder, violin (1991)
Marijke Hester plays the violin since she was 6 years old. Initially she was taught by Hanneke van Ulsen. From the age of 14 she was accepted in the Young Talents Class of the Groningen Prince Claus Conservatoire and was taught by Liesbeth Ackermans. At the moment she is following a training by Sonja van Beek to join the Prince Claus Conservatoire. In addition she has followed master classes from Thomas Klug and Emmy Verhey.

Marijke Hester participated in the Peter the Great Festivals of 2006 and 2008, and in the 2008 Orlando Festival. She also participated in the Haydn Festival and reached to the finals. In addition she won several prizes at the Princess Christina Contest, both as a soloist and as a member of an chamber ensemble. Marijke Hester is a member of the Haydn Youth String Orchestra since the age of 11. The last 2 years she is the acting concertmaster and soloist. Marijke Hester plays a Postacchini/Pacherel violin, in free loan from the National Musical Instruments Fund.
Information and Registration
The registration desk will be situated in the Fountain Patio of the UMCG. The desk will be manned from 08.30 – 10.30 and during program breaks.

Getting to Groningen
By air
Fly to Amsterdam Airport Schiphol, Eindhoven Airport, or City Airport Bremen (Germany). From Amsterdam trains depart directly from the airport. The trip takes approximately 2.5 hrs. From Eindhoven there is a regular bus service to the Groningen Central Railway Station. Traveling time is just over 3 hrs. From Bremen there is a regular bus service to the Groningen Central Railway Station. Traveling time is just over 3 hrs. From Amsterdam trains depart directly from the airport. The trip takes approximately 2.5 hrs. From Eindhoven there is a regular bus service to the Groningen Central Railway Station. Traveling time is just over 3 hrs. From Bremen there is a regular bus service to the Groningen Central Railway Station. Traveling time is just over 3 hrs. From Amsterdam trains depart directly from the airport. The trip takes approximately 2.5 hrs. From Eindhoven there is a regular bus service to the Groningen Central Railway Station. Traveling time is just over 3 hrs. From Bremen there is a regular bus service to the Groningen Central Railway Station. Traveling time is just over 3 hrs.

By train
Getting to Groningen via the A28. From the first traffic lights (Julianaplein) follow the signs UMCG. When approaching the UMCG follow the signs ‘UMCG Noord’ for parking. Outside the parking garage the location of the symposium is signposted.

Accommodation
Hotel accommodation should be organized by the participants themselves. For information see: www.bookings.nl or www.hotels.nl.

Accreditation
Accreditation has been granted from the Dutch Society of Nuclear Medicine. Certificates of attendance will be e-mailed to registered delegates afterwards.

Computer presentation check-in
Presenters must check in their presentation well in time. It may be brought on CD or memory stick. There is a laptop provided; this will be equipped with PowerPoint 2003. If bringing a presentation with video clips please make sure they run in PowerPoint 2003 before bringing the presentation. Do not forget to bring the video clip along with the Powerpoint presentation. You may bring the presentation on your own laptop, but if you do we recommend you to bring a copy

From the east you will also enter Groningen via the A7. First follow the direction of “Drachten”. Shortly thereafter the UMCG is signposted.

By car
Coming from the west you will enter Groningen via the A7. From the south you will enter via the A28. From the first traffic lights (Julianaplein) follow the signs UMCG.
on CD or memory stick in case there are problems. Staff will be on hand for technical assistance. Please note that there will be no facilities for overhead/transparency projection or 35 mm slide presentations.

**Posters**
Poster boards will be located in the Fountain Patio. Posters should be mounted on Wednesday April 7 before 19.00 hrs. Size of the poster boards is 100x120 cm. Posters should be removed on Friday between 15.00 and 17.00 hrs. Posters that have not been removed by 17.00 hrs will be discarded.

**Language**
The official language of the congress is English. No simultaneous translation will be provided.

**Symposium dinner**
Included in the Registration fee is the symposium dinner at Ni Hao Chinese Restaurant at the Kattendiep on Friday, April 9, which is within walking distance of the hospital. A walking party will leave from the Main entrance of the UMCG at 19.00 hrs sharp.

**Insurance**
The congress organization and IRIST cannot accept any liability for personal injuries or loss or damage or damage to property belonging to delegates, or as a result of the meeting. Please, check the validity of your own personal insurance.

**Luggage**
On Saturday luggage can be deposited at the Registration Desk for secure storage.

**Cloak Room**
A cloak room is situated in the Fountain Patio and near the Red Hall. Note: these locations are unguarded. Storage of coats, luggage and other personal belongings is strictly on your own risk.

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