

Second International Conference

European Society for Molecular Imaging

June 14-15, 2007
Naples - Italy

Royal-Continental Hotel Convention Center
Via Partenope - 38/44



European Molecular Imaging Laboratories (EMIL)
European Network of Excellence



Diagnostic Molecular Imaging (DiMI)
European Network of Excellence



Dipartimento di Scienze Biomorfologiche e Funzionali
Università degli Studi di Napoli - "Federico II"



CEA
Direction Des Sciences Du Vivant

THURSDAY JUNE 14		FRIDAY JUNE 15	
08.00-09.00 Registration		08.00-09.00 General Assembly of ESMI	
09.00-10.30 Plenary Session I <i>Molecular Imaging of Biological Processes</i> <i>Auditorium</i> Invited Lectures		09.00-10.15 Plenary Session III <i>Molecular Imaging for Drug Development</i> <i>Auditorium</i> Invited Lectures <i>Oral Presentations</i>	
10.30-11.00 Coffee Break		10.15-10.45 Coffee Break	
11.00-12.30 Concurrent session I <i>Molecular Imaging in Oncology I</i> <i>Auditorium</i> Invited Lectures <i>Oral Presentations</i>	11:00-12:30 Concurrent session II <i>Cardiovascular Imaging and Animal Models</i> <i>Sala Mirabilis</i> Invited Lectures <i>Oral Presentations</i>	10:45-12:45 Concurrent session III <i>Imaging in Neuroscience</i> <i>Auditorium</i> Invited Lectures <i>Oral Presentations</i>	10:45-12:45 Concurrent session IV <i>Nanoscience and Imaging</i> <i>Sala Mirabilis</i> Invited Lectures <i>Oral Presentations</i>
12.30-14.00 Lunch		12.45-14.15 Lunch	
14:00-15:30 Plenary session II <i>Advancements in Instrumentations</i> <i>Auditorium</i> Invited Lectures <i>Oral Presentations</i>		14:15-15:15 Plenary session IV <i>Probe Development</i> <i>Auditorium</i> Invited Lectures	
15.30-16.00 Coffee Break		15.15-15.45 Coffee Break	
16:00-17:30 Poster session <i>Castel dell'Ovo – Sala Italia</i>		15:45-17:30 Concurrent session V <i>Stem Cell Bioly and Tracking</i> <i>Auditorium</i> Invited Lectures <i>Oral Presentations</i>	15:45-17:00 Concurrent session VI <i>Infection, Inflammation and Immune System</i> <i>Sala Mirabilis</i> Invited Lectures <i>Oral Presentations</i>
17:30-18:30 GE Symposium <i>Auditorium</i>		17:00-17:45 Concurrent session VII <i>Molecular Imaging in Oncology II</i> <i>Sala Mirabilis</i> <i>Oral Presentations</i>	

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Integrated Project (MI)



The Sixth Framework Programme
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The Society
for Molecular Imaging

Honorary Chairman: **M. Salvatore**

Congress Chairman: **B. Tavitian**

Congress Co-Chairpersons: **S. Del Vecchio and A. Jacobs**

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Antonella Zannetti

SPEAKERS

W. Arap and R. Pasqualini (Houston)
J. P. Babilion (Cleveland)
R. Bjerkvig (Bergen)
K. Brindle (Cambridge)
B. Dubertret (Paris)
C. Fraefel (Zürich)
T.W.J. Gadella (Amsterdam)
R. Graf (Cologne)
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E. Holland (New York)

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GENERAL INFORMATION

Registration

Registration is at the Royal Continental Hotel Convention Center, and a secretariat desk will be open for the duration of the meeting according to the following schedule:

- Thursday, June 1408:00-18:30
- Friday, June 1508:00-18:00

Registration fee includes:

- 1 year membership to ESMI;
- attendance to the Conference sessions;
- meeting material, coffee breaks and lunches;
- visit to poster and industrial exhibition;
- free copy of Conference abstract book.

Congress Venue

Plenary sessions take place in the Auditorium and the concurrent sessions in Auditorium and Sala Mirabilis at Royal Continental Hotel.

Poster Session

Poster session is held at Castel dell'Ovo – Sala Italia – in front of Royal Continental Hotel.

Posters may be mounted from 7:00 to 12:00 of June 14.

Posters will be up for the full two days of the meeting and can be removed by 18:00 Friday 15.

Industrial Exhibition

Industrial Exhibition is held at Castel dell'Ovo – Sala Attigua – in front of Royal Continental Hotel, during the Conference and we cordially invite all the participants to visit it. Exhibit hours are as follows:

- Thursday, June 1409:00-18:30
- Friday, June 1509:00-17:00

Lunches

Lunches are served at Castel dell'Ovo, in front of Royal Continental Hotel.

Slide Center

The slide center is located on the same floor of Auditorium at Royal Continental Hotel Convention Center. Presentations have to be deposited by the speakers in the Slide Room at least 2 hours before the beginning of the talk.

Certificate of Attendance

Certificate of attendance will be released by ESMI office upon request.

Second International Conference

European
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for Molecular
Imaging

PROGRAM



14 June 2007

08:00-09:00 **Registration**

09:00-10:30 **Plenary Session I: Molecular Imaging of Biological Processes**

Chair: Bertrand Tavitian and Silvana Del Vecchio

Auditorium

09:00 **Ligand-directed targeting and molecular genetic imaging in diseases with an angiogenesis component**

Renata Pasqualini and Wadih Arap

M. D. Anderson Cancer Center, Houston, TX, USA.

09:30 **Imaging the development of lymphoid organs**

Dimitris Kioussis

National Institute for Medical Research, MRC, London, UK.

10:00 **Translational molecular imaging for oncology**

Martin G. Pomper

Johns Hopkins Medical Institutions, Baltimore, MD, USA.

10:30-11:00 Coffee Break

11:00-12:30 **Concurrent session I: Molecular Imaging in Oncology I**

Chair: Clemens Lowik and Martin G. Pomper

Auditorium

11:00 **Bioluminescence imaging of mouse models of brain tumors**

Eric Holland

Memorial Sloan-Kettering Cancer Center, New York City, NY, USA.

11:30 **Intraoperative molecular imaging**

James P. Basilion

NFCR Center for Molecular imaging, Case Western Reserve University, Cleveland, OH, USA.

12:00 **Oral Presentations**

12:00 **Radiolabeled G-protein coupled receptor antagonists may be superior to agonists for in vivo tumor targeting**

Xuejan Wang¹, Mihaela Ginj¹, Hanwen Zhang¹, Renato Cescato²,
Damian Wild¹, Judit Erchegeyi³, Jean Rivier³, Jean Claude Reubi²,
Helmut R. Maecke¹

¹ *University Hospital Basel, Switzerland.*

² *University of Berne, Switzerland.*

³ *Salk Institute, La Jolla, CA, USA.*

12:15 **Intra-individual comparison of the targeting and biodistribution of EGFR specific Nanobodies in mice using MicroSPECT-CT**

Tony Lahoutte¹, Olive Gainkam Tchouate¹, Lieven Huang²,

Vicky Caveliers¹, Cindy Peleman¹, Sophie Hernot¹, Chris Vanhove¹,

Marleen Keyaerts¹, Hilde Revets³, Patrick De Baetselier², Axel Bossuyt¹

¹ *In vivo Cellular and Molecular Imaging Laboratory,
Vrije Universiteit Brussel, Brussels, Belgium*

² Dept of Molecular and Cellular Interactions, Flanders Interuniversity Institute for Biotechnology, Vrije Universiteit Brussel, Brussels, Belgium.

³ Ablynx N.V., Zwijnaarde, Belgium.

11:00-12:30 **Concurrent Session II: Cardiovascular Imaging and Animal Models**

Chair: Markus Schwaiger and Anna Planas

Sala Mirabilis

11:00 **Diagnostic challenges in cardiovascular diseases – opportunity for molecular imaging**

Michael Schafers

Department of Nuclear Medicine,

University Hospital of Munster, Munster, Germany.

11:30 **Oral Presentations**

11:30 **Transient myocardial avb3 integrin expression in a rat model of ischemia and reperfusion evaluated by 18F-Galacto-RGD PET**

Takahiro Higuchi¹, Frank M Bengel¹, Stefan Seidel², Stephan G Nekolla¹, Marc C Huisman¹, Sybille Reder¹, Hans J Wester¹, Markus Schwaiger¹

¹ *Nuklearmedizinische Klinik und Poliklinik der Technischen*

Universität München, Klinikum rechts der Isar, Munich, Germany.

² *Institut für Allgemeine Pathologie und Pathologische Anatomie der Technischen Universität München, Klinikum rechts der Isar, Munich, Germany.*

11:45 **In vivo optical imaging of neurogenesis**

Sébastien Couillard-Despres¹, Sonja Ploetz¹, Robert Aigner¹,

Ulrich Bogdahn¹, Ludwig Aigner¹

¹ *Dept of Neurology, University of Regensburg, Germany.*

12:00 **A new non-invasive method to quantify renal function in rats and mice: high-resolution small animal PET with fluoride-18**

Uta Schnockel¹, Stefan Reuter², Klaus Schäfers¹, Gert Gabriels²,

Sven Hermann¹, Otmar Schober¹, Eberhard Schlatter², Michael Schäfers¹.

¹ *Dept. of Nuclear Medicine, University Hospital Münster, Germany.*

² *Dept. of Internal Medicine D, University Hospital Münster, Germany.*

12:15 **Assessment of the imaging capability of the YAP-(S)PET small animal scanner in a rat model of ischemia and reperfusion**

Antonietta Bartoli¹, Vincenzo Lionetti², Paola Anna Erba³,

Serena Fabbri¹, Nicola Belcari¹, Alberto Del Guerra¹, Fabio Recchia⁴,

Giuliano Mariani³, Piero Salvadori⁵

¹ *Department of Physics “E. Fermi” and Center of Excellence*

“AmbiSEN”, University of Pisa, and INFN, Sezione di Pisa, Pisa, Italy.

² *Scuola Superiore Sant’Anna, Institute of Clinical Physiology-CNR., Pisa, Italy.*

³ *Nuclear Medicine Section, University of Pisa, Pisa, Italy.*

⁴ *Scuola Superiore Sant’Anna, Institute of Clinical Physiology-CNR, Pisa, Italy, Department of Physiology, New York Medical College, Vahlalla, USA*

⁵ *Positron Emission Tomography and Radiopharm. Chem. Dept.
CNR Institute of Clinical Physiology, Pisa, Italy.*

12:30-14:00 Lunch

14:00-15:30 **Plenary Session II: Advancements in Instrumentations**

Chair: John Clark and Arturo Brunetti

Auditorium

14:00 **PET instrumentation in molecular imaging : from single modality to multimodality and beyond**

Bernd J Pichler

Laboratory for Preclinical Imaging and Imaging Technology, Department of Radiology, University of Tuebingen.

14:30 **The role of ultrasound and MR in local drug delivery and activation**

Chrit Moonen

Université Bordeaux II, Bordeaux, France.

15:00 **Oral Presentations**

15:00 **Persistent luminescent nanoparticles: a new tool for biologists?**

Quentin Le Manse De Chermont¹, Johanne Seguin¹, Corinne Chaneac²,
Fabienne Pellé², Serge Maitrejean³, Jean-Pierre Jolivet²,
Michel Bessodes¹, Didier Gourier², Daniel Scherman¹

¹ *Inserm, U640; CNRS, UMR8151; Université Paris Descartes – ENSCP.*

² *CNRS, UMR 7574 ; Université Pierre et Marie Curie – ENSCP.*

³ *BiospaceLab.*

15:15 **INTEGRIM: a visualization, matching and interpretation tool for fused micro-CT and multi-view BLI imaging**

Martin Baiker¹, Julien Milles¹, Albert M Vossepoel², Ivo Que³,
Eric L Kaijzel³, Clemens W Lowik³, Johan H Reiber¹,
Boudewijn P Lelieveldt¹, Jouke Dijkstra¹

¹ *Division of Image Processing Department of Radiology Leiden
University Medical Center, The Netherlands.*

² *Quantitative Imaging Group Delft
University of Technology The Netherlands.*

³ *Department of Endocrinology Leiden
University Medical Center, The Netherlands.*

15:30-16:00 Coffee Break

16:00-17:30 **Poster Session**

Sala Italia Castel dell'Ovo

Animal models P45-P64

Moderators: Clemens Lowik and Anna Planas

Cancer I P65-P86

Moderators: Bertrand Tavitian and Martin G. Pomper

Cancer II P87-P107

Moderators: Silvana Del Vecchio and Helmut Maecke

Cardiovascular Imaging P108-P113

Others P160- P170

Moderators: Michael Schafers and Chrit Moonen

Chemistry P114-P140

Moderators: Silvio Aime and Denis Guilloteau

Neuroscience P141-P159

Moderators: Annemie Van der Linden and Andreas Jacobs

Technology P171-P196

Moderators: John Clark and Arturo Brunetti

17:30-18:30 **GE Symposium**

Chair: Annemie Van Der Linden and Bernd J. Pichler

Auditorium

17:30 **Healthcare Re-Imagined: a critical step**

Jean Luc Vanderheyden

GE Healthcare.

17:45 **Examples of descriptive and quantitative studies using microCT**

Philippe Choquet

MCU-PH; Biophysique & Medecine Nucleaire;

CHU Hautepierre - HUS; Strasbourg.

18:00 **Small animal PET and PET-CT applications - a multimodality approach**

Valentina Ambrosini

Nuclear Medicine Dept. Azienda Ospedaliero-Universitaria di Bologna

Policlinico S.Orsola-Malpighi.

18:15 **Evaluation of novel tumor therapies by near infrared imaging and flat-panel volume computed tomography**

Frauke Alves

University Hospital Gottingen.

15 June 2007

08:00-09:00 **General Assembly of ESMI**

09:00-10:15 **Plenary Session III: Molecular Imaging for Drug Development**

Chair: Andreas Jacobs and Alberto Cuocolo

Auditorium

09:00 **Near-Infrared fluorescence imaging of single-walled carbon nanotubes in biological systems**

Bruce Weisman

Rice University, Houston, TX, USA.

09:30 **Imaging receptor function and pathway activity in the rodent brain**

Markus Rudin

Institute for Biomedical Engineering UZH/ETH Zürich and Institute for Pharmacology and Toxicology, UZH, Zürich, Switzerland.

10:00 **Oral Presentation**

10:00 **Molecular Imaging methods for the study of the pharmacokinetics, distribution and in vivo activity of small interfering RNA**

Thomas Viel¹, Raphaël Boisgard¹, Benoit Jego¹, Karine Siquier¹, Françoise Hinnen², Frédéric Dollé², Bertrand Tavitian¹, Bertrand Kuhnast¹

¹ *Inserm U803 and*

² *Groupe de radiochimie et radio-pharmacie, both at Laboratoire d'Imagerie Moléculaire Expérimentale, CEA, DSV, I2BM, SHFJ, Orsay, France.*

10:15-10:45 Coffee Break

10:45-12:45 **Concurrent Session III: Imaging in Neuroscience**

Chair: Rolf Bjerkvig and Markus Rudin

Auditorium

10:45 **Multi-center, multi-tracer and high resolution PET in dementia**

Karl Herholz

Wolfson Molecular Imaging Centre, University of Manchester Manchester, UK.

11:15 **Merging structural and functional information in neuroimaging: quantitative approaches**

Mario Quarantelli

Institute of Biostructures and Bioimages, CNR, Naples, Italy.

11:45 **Imaging the dynamics of spreading depression in the ischemic penumbra**

Rudolf Graf

Max-Planck-Institute for Neurological Research Cologne, Germany.

12:15 **Oral Presentations**

12:15 Multimodality study of a rat model for Huntington diseases: can we bridge different techniques?

Nadja Van Camp¹, Ines Blockx², Cindy Casteels³, Lluisa Camon⁴, Nuria de Vera⁴, Marleen Verhoye², Karolien Goffin³, Emili Martinez⁴, Guy Bormans⁵, Anna Planas⁴, Koen Van Laere³, Annemie Van der Linden²

¹ CEA, DSV, I2BM, SHFJ, Laboratoire d'Imagerie Moléculaire Expérimentale, Orsay, France.

² Bio-Imaging Lab, University of Antwerp, Groenenborgerlaan 171 B-2020 Antwerp Belgium

³ Division of Nuclear Medicine University Hospital Gasthuisberg and K.U.Leuven.

⁴ Institute for Biomedical Research (IIBB-CSIC), IDIBAPS, Spain.

⁵ Laboratory for Radiopharmacy, K.U.Leuven, Belgium.

12:30 Imaging inducible gene expression in an intracranial glioma model in vivo

Alexandra Winkeler¹, Leonie E.M. Paulis², Yannic Waerzeggers¹, Miguel Sena-Estevés³, Hongfeng Li¹, Andreas H. Jacobs¹

¹ Laboratory for Gene Therapy and Molecular Imaging at the Max-Planck Institute for Neurological Research with Klaus-Joachim-Zülch Laboratories of the Max Planck Society and the Faculty of Medicine of the University of Cologne and Departments of Neurology, University of Cologne and Klinikum Fulda.

² Department of Biomedical Engineering Eindhoven University of Technology, Eindhoven, The Netherlands.

³ Departments of Neurology and Neuroscience, Massachusetts General Hospital and Harvard Medical School, Charlestown, MA, USA.

10:45-12:45 Concurrent Session IV: Nanoscience and Imaging

Chair: Bruce Weisman and TBC

Sala Mirabilis

10:45 Quantum dots for in vivo imaging

Benoît Dubertret
ESPCI, Laboratoire d'Optique Physique, Paris, France.

11:15 Innovative nanosized MR imaging probes

Enzo Terreno
Center for Molecular Imaging, Università di Torino, Torino, Italy.

11:45 Oral Presentations

11:45 Collagen binding MR-detectable liposomes

Erik Sanders¹, Sanne Reulen², Monica Breurken², Willem Mulder³, Anita Mol⁴, Maarten Merckx², Gustav Strijkers¹, Klaas Nicolay¹.

¹ Biomedical NMR, Department of Biomedical Engineering, Eindhoven University of Technology, Eindhoven, Netherlands

² *Laboratory of Macromolecular and Organic Chemistry,
Department of Biomedical Engineering, Eindhoven University
of Technology, Eindhoven, Netherlands.*

³ *Department of Radiology, Mount Sinai School of Medicine,
New York, New York, United States.*

⁴ *Laboratory for Cell and Tissue Engineering,
Department of Biomedical Engineering,
Eindhoven University of Technology, Eindhoven, Netherlands.*

12:00 **Development of lanthanide luminescent complexes
for cellular imaging**

Filip Kielar¹, David Parker¹

¹ *Durham University, Durham, UK.*

12:15 **[18F]FPyKYNE, a fluoropyridine-based alkyne reagent for the
fluorine-18-labelling of macromolecules using click-chemistry**

Bertrand Kuhnast¹, Françoise Hinnen¹, Bertrand Tavitian¹, Frederic Dolle¹

¹ *CEA/I2BM/SHFJ/LIME, Service Hospitalier Frédéric Joliot
Institut d'Imagerie BioMédicale, Orsay, France.*

12:30 **Use of highly sensitive dual probes Gd-liposome
and Gd-loaded apoferritin for targeting tumor angiogenesis
for MR-visualization and drug delivery**

Simonetta Geninatti-Crich¹, Benedetta Bussolati¹, Lorenzo Tei¹, Giovanna
Esposito¹, Cristina Grange¹, Stefania Lanzardo¹,
Giovanni Camussi¹, Silvio Aime¹

¹ *University of Torino, Torino, Italy.*

12:45-14:15 Lunch

14:15-15:15 **Plenary Session IV: Probe Development**

Chair: Silvio Aime and Helmut R Maecke

Auditorium

14:15 **Detecting early tumour responses to therapy using magnetic resonance
imaging and spectroscopy**

Kevin Brindle

University of Cambridge, Cambridge, UK.

14:45 **Multiparameter imaging of signaling across the plasmamembrane**

Theodorus W.J. Gadella Jr

University of Amsterdam, Amsterdam, The Netherlands.

15:15-15:45 Coffee Break

15:45-17:45 **Concurrent Session V: Stem Cell Biology and Tracking**

Chair: James P. Bavailon and Alexandra Winkeler

Auditorium

15:45 **Cancer and cancer initiating cells**

Rolf Bjerkvig
University of Bergen, Bergen, Norway.

16:15 **Understanding stem cell-mediated brain repair using cellular MRI**

Michel Modo
Centre for the Cellular Basis of Behaviour, Kings College, London, UK.

16:45 **Oral Presentations**

16:45 **Magnetic resonance imaging reveals hematopoietic stem/progenitor cells homing to the brain of mice affected by Metachromatic Leukodystrophy**

Letterio Politi¹, Alessia Capotondo², Angela Gritti², Angelo Quattrini³, Giuseppe Scotti¹, Luigi Naldini², Alessandra Biffi²

¹ *Neuroradiology Unit, San Raffaele Scientific Institute, Milano.*

² *San Raffaele Telethon Institute for Gene Therapy (HSR-TIGET)
San Raffaele Scientific Institute, Milano, Italy.*

³ *Neurology Unit, San Raffaele Scientific Institute, Milano.*

17:00 **Imaging Bone Marrow-Derived Tumour Infiltrating Progenitor Cell-Therapy of Gliomas**

Hrvoje Miletic¹, Yvonne Fischer², Sara Litwak³, Tsanan Giorglou², Yannic Waerzeggers⁴, Alexandra Winkeler⁴, Hongfeng Li⁴, Uwe Himmelreich⁵, Claudia Lange⁶, Werner Stenzel¹, Martina Deckert¹, Harald Neumann³, Andreas H. Jacobs⁴, Dorothee von Laer²

¹ *Abteilung für Neuropathologie, Universität zu Köln, German.*

² *Georg-Speyer-Haus, Frankfurt am Main, Germany.*

³ *Neural Regeneration Unit, Institute of Reconstructive Neurobiology,
University Bonn LIFE & BRAIN Center and Hertie Foundation, Germany.*

⁴ *Labor für Gentherapie und Molekulares Imaging, Max-Planck-Institut
für Neurologische Forschung, Universität zu Köln, Germany.*

⁵ *In-vivo NMR Laboratory, Max-Planck-Institute for Neurological Research
with Klaus-Joachim-Zülch-Laboratories of the Max Planck Society
and the Faculty of Medicine of the University of Cologne, Germany.*

⁶ *Bone Marrow Transplant Center University Hospital Hamburg-Eppendorf, Germany.*

17:15 **Quantitative bioluminescence imaging of the migration of lentiviral vector-labeled endogenous neural stem cells in mouse brain**

Veerle Reumers¹, Christophe Michel Deroose², Rik Gijsbers³, Olga Krylychkina³, Martine Geraerts³, Luc Mortelmans², Zeger Debysers³, Veerle Baekelandt¹

¹ *Laboratory for Neurobiology and Gene Therapy, Katholieke
Universiteit Leuven, Leuven, Belgium.*

² *Nuclear Medicine, Katholieke Universiteit Leuven, Leuven, Belgium.*

³ *Laboratory for Molecular Virology and Gene Therapy, Katholieke Universiteit
Leuven, Leuven, Belgium.*

15:45-17:00 **Concurrent Session VI: Infection, Inflammation and Immune System**

Chair: Eric Holland and Sabina Pappatà

Sala Mirabilis

15:45 **Multifluorescence live visualization of virus replication by Confocal Laser Scanning Microscopy.**

Cornel Fraefel

University of Zürich, Zürich, Switzerland.

16:15 **Oral Presentations**

16:15 **DPA compounds: promising radioligands for neuroinflammation imaging**

Fabien Chauveau¹, Hervé Boutin², Nadja Van Camp¹,
Cyrille Thominaux¹, Roger Fulton³, Michelle James⁴, Anna Creelman⁴,
Silvia Selleri⁵, Frédéric Dollé¹, Bertrand Tavitian¹, Michael Kassiou⁶

¹ *CEA, Institut d'Imagerie Biomédicale, Service hospitalier Frédéric Joliot, Laboratoire d'Imagerie Moléculaire Expérimentale, Orsay, France.*

² *Faculty of Life Sciences, Neurobiology Group University of Manchester, UK.*

³ *Department of PET and Nuclear Medicine, RPAH, NSW 2050 Australia.*

⁴ *Department of Pharmacology, University of Sydney, NSW 2006 Australia.*

⁵ *Dipartimento di Scienze Farmaceutiche, Università di Firenze, 50121 Firenze, Italy.*

⁶ *School of Medical Radiation Sciences and School of Chemistry, and Ramaciotti Centre for Brain Imaging, Brain and Mind Research Institute, University of Sydney, Australia.*

16:30 **Following the shaping of the peripheral T cell repertoire in newborn mice by Fluorescence Molecular Tomography**

Anikitos Garofalakis¹, Ana Sarasa², Giannis Zacharakis²,
Clio Mamalaki³, Jorge. Ripoll²

¹ *FO.R.T.H.-I.E.S.L., Iraklio, Crete, Greece.*

² *FO.R.T.H.-I.E.S.L., Iraklio, Crete, Greece.*

³ *FO.R.T.H.-I.M.B.B., Iraklio, Crete, Greece.*

16:45 **Translational research from mice to man: molecular imaging of intestinal graft-versus-host-disease activity with PET**

Sven Hermann¹, Matthias Stelljes², Jörn Albring², Christopher Poremba³,
Gabriele Köhler⁴, Christoph Bremer⁵, Thorsten Kucharzik⁶, Gerda Silling²,
Wolfgang E. Berdel², Otmar Schober¹, Joachim Kienast², Michael Schäfers¹

¹ *Department of Nuclear Medicine, University Hospital Münster, Germany.*

² *Department of Medicine/Hematology and Oncology, University Hospital Münster, Germany.*

³ *Department of Pathology, University of Duesseldorf, Germany.*

⁴ *Institute of Pathology, University Hospital Münster, Germany.*

⁵ *Department of Clinical Radiology, University Hospital Münster Germany.*

⁶ *Department of Medicine B, University Hospital Münster, Germany.*

17:00-17:45 **Concurrent Session VII: Molecular Imaging in Oncology II**

Chair: Eric Holland and Sabina Pappatà

Sala Mirabilis

17:00 **Oral Presentations**

17:00 **Imaging BMP-7 induced cell cycle arrest in experimental gliomas**

Anke Klose¹, Yannic Waerzeggers¹, Parisa Monfared¹, Alexandra Winkeler¹, S. Vukicevic², E. Kaijzel³, Clemens W. G. M. Löwik³, Andreas H. Jacobs¹

¹ *Laboratory for Gene Therapy and Molecular Imaging at the Max Planck Institute for Neurological Research with Klaus-Joachim-Zülch-Laboratories of the Max Planck Society and the Faculty of Medicine of the University of Cologne, Gleuelerstrasse 50, 50931 Cologne, Center of Molecular Medicine Cologne (CMMC), Departments of Neurology at the University of Cologne and Klinikum Fulda, Germany.*

² *Laboratory of Mineralized Tissues, School of Medicine, University of Zagreb, Salata 11, 10 000 Zagreb, Croatia.*

³ *Department of Endocrinology, Leiden University Medical Center, Albinusdreef 2, 2333 ZA Leiden, The Netherlands.*

17:15 **A fDOT instrument for in-vivo mice lung tumors follow-up**

Anne Koenig¹, Lionel Hervé¹, Anabela Da Silva¹, Jean-Marc Dinten¹, Jérôme Boutet¹, Michel Berger¹, Véronique Josserand², Jean-Luc Coll³, Philippe Peltié¹, Philippe Rizo¹

¹ *CEA-LETI Minatec, 2 Animage, 3 Inserm U578 IAB.*

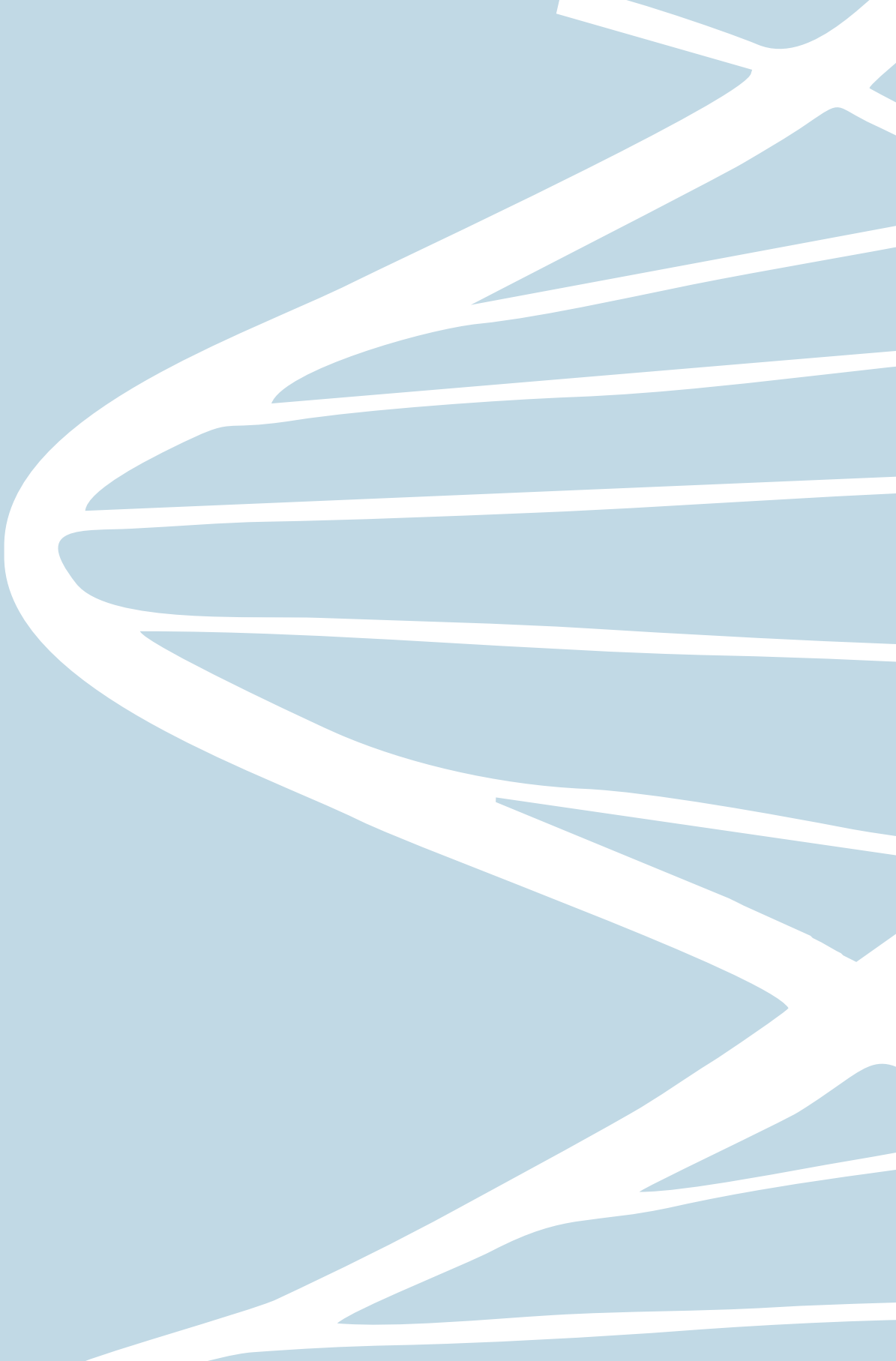
17:30 **Reflectance spectrophotometry as intraoperative assessment of mucosal perfusion in oesophageal anastomosis (ReSpect-study)**

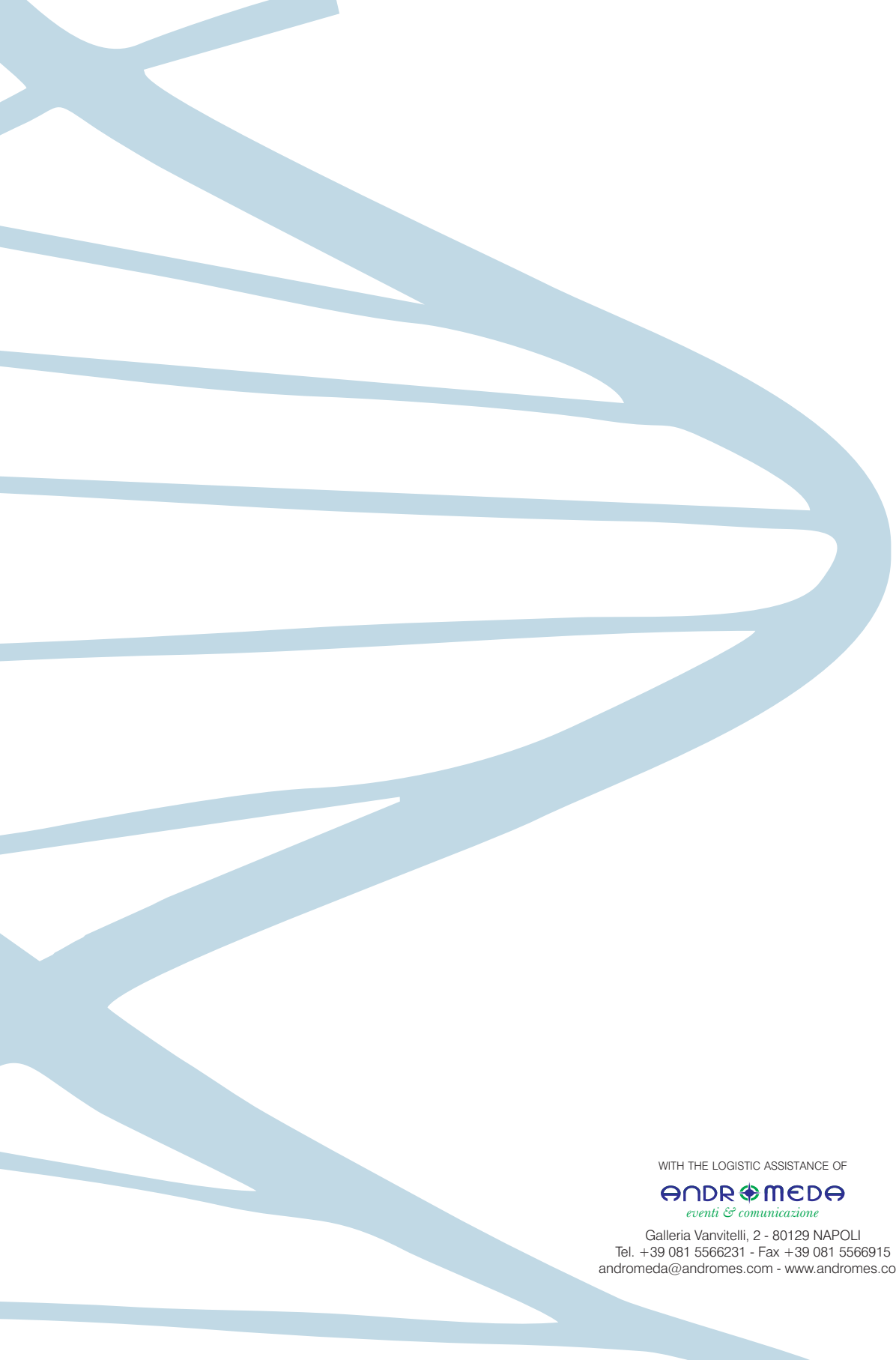
Anne Karliczek¹, David A Benaron², Anne van der Stoep³, Peter C Baas³, Theo Wiggers¹, John Th Plukker¹, Gooitzen M van Dam¹

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