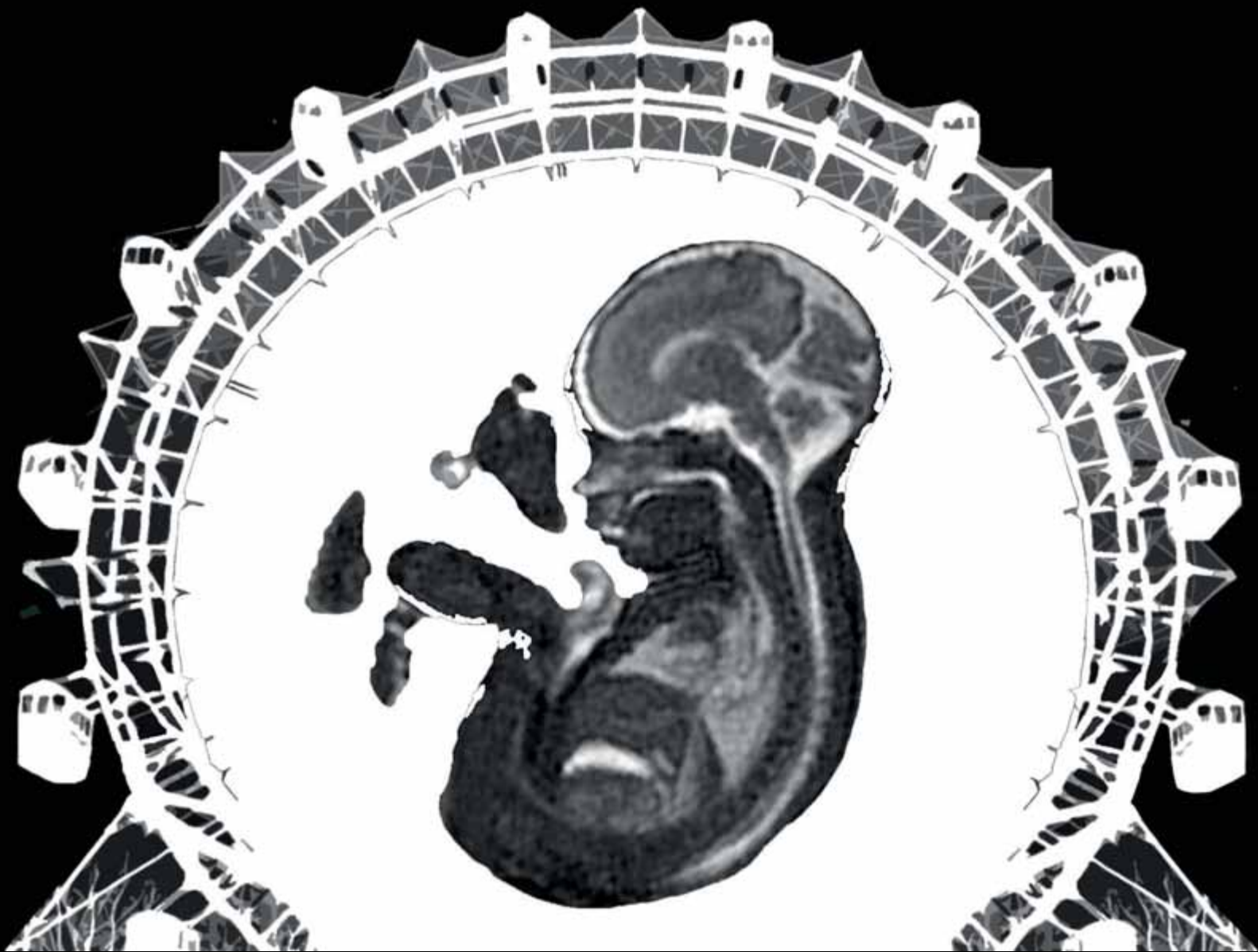


Program

4th Fetal MRI Course
3rd Fetal MRI Congress



VIENNA
May, 13th - 15th 2010

PHILIPS



Dear Friends and Colleagues,

This is now the fourth time I am happy to welcome you in Vienna at an international event on fetal MRI.

This year we dare to tackle two topics where fetal MRI is still in its infancy: skeletal and cardiac imaging.

However, at our first international course on fetal MRI the same was thought of fetal brain MRI that has become a valuable prenatal diagnostic tool in the meantime. Regarding the fetal brain ultrasound as well as MRI methods have progressed and allow in vivo insights into normal and pathological developmental changes that have to date only been known or suspected in vitro. Regarding the brain, it could be shown that hemispheric asymmetry in fetuses is the rule, and not an exception. Thus brain asymmetry has been chosen as one of the main topics.

I hope you will enjoy Vienna (again) not only the course and the scientific program, but also the city itself.

With my best wishes for your stay

Daniela Prayer

Department of Radiology
Division of Neuroradiology and
Musculoskeletal Radiology



ÖSTERREICHISCHE GESELLSCHAFT FÜR
PRÄ- UND PERINATALE MEDIZIN

4th Fetal MRI-Course, May 13th 2010

3rd Fetal MRI Congress, May 14th-15th 2010

Local Faculty:

Peter C. Brugger
Christian Czerny
Gregor Kasprian
Agnes Messerschmidt
Daniela Prayer
Max Schmid

Venue:

Börsensäule, Wipplingerstraße 34, 1010 Vienna
Contact/Information: daniela.prayer@meduniwien.ac.at

See map last page

Thursday, 13th, Morning

07:30 **Registration**

08:15 **Welcome**
Wolfgang Arzt/ Linz , Daniela Prayer/ Vienna

Chairpersons: Wolfgang Arzt/ Linz, Daniela Prayer/ Vienna

08:30 **What sequence for what purpose?**
Peter C Brugger/Vienna

09:00 **The fetal musculoskeletal system: US and MRI**
Gustavo Malinger/Holon

09:30 **MRI of the fetal abdomen- what is new?**
Peter C Brugger/Vienna

10:00 **Break**

Chairpersons: Siegfried Rothmensch/Los Angeles, Rabih Chaoui/ Berlin

10:30 **Why we MAY NOT need prenatal MRI?**
Ilan Timor-Tritsch/New York

11:00 **Why we MAY need prenatal MRI**
Daniela Prayer/Vienna

11:30 **US of the fetal heart and great vessels**
Rabih Chaoui/Berlin

11:45 **MRI of the fetal heart and great vessel/ basics**
Peter C Brugger/Vienna

12:00 **Lunch**

Thursday, 13th, Afternoon

Chairpersons: Elisabeth Krampfl-Bettelheim / Vienna, Gustavo Malinger/
Holon

13:00 **MRI of the fetal heart and great vessels/ Dynamic studies**
Vanessa Berger-Kulemann/Vienna

13:30 **Utero-placental and fetal circulation - an obstetrician's
view**

Maria Stammler-Safar, Kinga Chalubinski/Vienna

14:00 **A radiologist's view of the placenta**

Christian Nasel, Daniela Prayer/Vienna

14:30 **Anatomy of the fetal brain**

Milos Judas/Zagreb

15:00 Break

Chairpersons: Denise Pugash/ Vancouver, Gregor Kasprian/ Vienna

15:20 **Fetal brain and face anatomy US and MRI**
Gustavo Malinger/Holon, Gregor Kasprian, Maria-Theresa
Schmook, Nilouparak Hachemian, Mariella Mailath-
Pokorny/Vienna

16:20 **3D Ultrasound of the fetal brain**

Rabih Chaoui/Berlin

16:50 **Normal and pathological connectivity of the fetal Brain**

Gregor Kasprian/Vienna

17:20 Discussion

17:40 End

Friday, 14th, Morning

Chairpersons: Ulrike Salzer-Muhar/ Vienna, Sahar Saleem /Kairo

- 08:30 **Genetic skeletal dysplasias: molecular diversity and diagnostic approach**
Andrea Superti-Furga/Freiburg
- 09:00 **Brain anomalies in skeletal dysplasias: ultrasound and MRI findings**
R. Palma-Dias, A. Sampson, G. McGillivray, A.M. Fink/Melbourne
- 09:15 **Two female sibs with a severe form of Hallermann-Streiff syndrome and retrospective detection of characteristic features in fetal MRI.**
J.Vodopiutz, U. Salzer, D. Prayer, A. R. Janecke/Vienna
- 09:30 **Cardiac and extra-cardiac MRI findings in fetuses with congenital heart abnormalities**
Sahar Saleem/Cairo
- 09: 45 **Prenatal brain pathology in congenital heart disease - does oxygen saturation of cerebral blood influence its occurrence?**
E. Mlczoch, P.C Brugger, A. Hanslik, B. Ulm, U. Salzer-Muhar, A. Pollak, D. Prayer/Vienna
- 10:00 **Pseudo-gating for fetal cine cardiac MRI**
M. Seed, D. Wong, C. Macgowan, L. Grosse-Wortmann, E.R Jaeggi, S. Blaser, S. Yoo/Toronto
- 10:15 **Cardiac MR Imaging of the Fetal Heart using a novel Triggering Method: Initial Results**
J. Yamamura, R. Fischer, K. Valett, G. Adam, U. Wedegärtner/Germany
- 10:30 **Break**

Friday, 14th, Morning

Chairpersons: Monika Bekiesinska-Figatowska/Warsaw, Max Schmid/Vienna

- 11:00 **Prenatal prediction of chronic lung disease based on fetal MR lung volumetry in survivors with congenital diaphragmatic hernia**
A. Debus, C. Hagelstein, A.K. Kilian, K.A. Büsing, T. Schaible, S.O. Schoenberg, K.W. Neff/Germany
- 11:15 **Repetitive MRI measurements of lung volume in fetuses with CDH to investigate the serial time course of pulmonary hypoplasia during gestation**
A.K. Kilian, K.A. Büsing, A. Bauer, T. Schaible, S.O. Schönberg, K.W. Neff/Germany
- 11:30 **Logistic regression analysis for prenatal prediction of survival and need for extracorporeal membrane oxygenation in fetuses with congenital diaphragmatic hernia based on the observed to expected fetal lung volume**
K.W. Neff, A.K. Kilian, A. Debus, T. Schaible, S.O. Schoenberg, K.A. Büsing/Germany
- 11:45 **MRI investigation of the effect of antenatal corticosteroid treatment on fetal lung maturation**
M. Schmid, G. Kasprian, L. Kuessel, A. Messerschmidt, M. Langer, P. C. Brugger, D. Prayer/Vienna
- 12:00 **Congenital tumors diagnosed on prenatal MRI**
M. Bekiesinska-Figatowska, M. Duczkowski, A. Duczkowska, A. Romaniuk-Doroszewska, H. Brsgoszewska, Maria Uliasz, E. Jurkiewicz/Warsaw
- 12:15 **Lunch and Lunchsymposium:
Höchste Bildqualität - Geringe Dosis: Die neuesten Entwicklungen in der Kinderradiologie zur Dosisreduzierung**
Arnd Hejny/ Agfa Healthcare

Friday, 14th, Afternoon

Parallel: Hands-on Workshop at DZU

Chairpersons: Eugen Boltshauser/Zürich, Ritsuko Pooh/Japan

- 13:15 **Vascular supply of the fetal brain on Ultrasound**
Ritsuko Pooh/Osaka
- 13:45 **PVL and plasticity: lessons from prenatal brain development**
Ivica Kostovic/Zagreb
- 14:15 **Fetal studies- the statisticians point of view**
Michael Weber/Vienna
- 14:25 **Diffusion weighted imaging in routine fetal brain MRI**
U. A. Ozcan, U. Isik, A. Dincer, A. Damlacik, C. Erzen/Istanbul
- 14:40 **SNAPIR, an optimised T1-weighted sequence. Advancing fetal brain imaging in a predominantly T2 weighted field.**
A K McGuinness, C. Malamateniou, D.P.O. Regan, P. Patkee, J.M. Allsop, M.A. Rutherford, J. V. Hajnal/London
- 14:55 **Abnormal brain microstructure and metabolism in small for gestational age term fetuses with normal umbilical artery Doppler.**
M. Sanz-Cortes, F. Figueras, N. Bargalló, N. Padilla, I. Amat, E. Gratacós/Barcelona
- 15:10 **Morphological brain development of very low birth weight infants measured by 3D-ultrasound (3D-US) and its correlation to neurodevelopmental outcome**
K.Klebermaß, S.Mörth, K.Vergesslich, A.Pollak, N.Haiden/Vienna
- 15:25 **Break**

Friday, May 14th, Afternoon

Hands-on workshop on Friday 14th in 3 groups, assignment to your group at registration!

Group I 14:30-15:30 workshop I
Group II 15:30-16:30 workshop II
Group III 16:30-17:30 workshop III

Venue:

Diagnosezentrum Urania (DZU), Laurenzerberg 2, 1010 Wien



How to get there:

Tram 1 stop Schwedenplatz (3 stops from Börsensäule)

Friday, 14th, Afternoon

Chairpersons: Ricardo Palma-Dias/ Melbourne, Rainer Seidl/ Vienna

- 15:45 **Fetal cerebellar pathology- what is the outcome?**
Eugen Boltshauser/Zurich
- 16:15 **Measurements of the posterior fossa on fetal MRI in differentiating between open and closed neural tube defects**
R. Woitek, M. Weber, D. Bettelheim, T. Czech, P.C. Brugger, D. Prayer/Vienna
- 16:30 **Holocarboxylase synthetase deficiency – in utero imaging, postnatal course and management**
D. Pugash, Y. Lillquist, P. Waters, H. Osiovich, S. Stöckler/Canada
- 16:45 **Cerebellar cysts associated with multiple carboxylase deficiency: A case report.**
Y. Tsutsumi, A. Oka, Y. Itoh, H. Sago, M. Miyasaka, S. Nosaka, H. Masaki/Tokyo
- 17:00 **Presence or absence of TTTS in twin pregnancies: Are there differences in placental pathologies seen by fetal MRI?**
N. Linduska, A. Messerschmidt, S. Dekan, P. Brugger, A. Pollak, D. Prayer/Vienna
- 17:15 **Vascular Placental Pathologies on Fetal MRI and Neonatal Outcome**
Agnes Messerschmidt, Nina Linduska, Gregor Kasprian, Peter C Brugger, Antonia Bauer, Michael Weber, Daniela Prayer/Vienna
- 17:30 **End**

Saturday, 15th

Chairpersons: Hanneke de Vries/ Amsterdam, Daniela Prayer/ Vienna

- 08:30 **Early MR diagnosis of Lissencephaly**
Christian Mitter/Vienna
- 09:00 **In utero tractography of abnormal white matter connectivity in callosal agenesis**
G. Kasprian, C. Mitter, P.C. Brugger, M. Schmid, F. Stuhr, R. Wasicky, D. Prayer/Vienna
- 09:15 **Prenatal environmental influence on postnatal laterality in twins**
J.I. de Vries^{*}, S.A. van Gellekom, C.E. van Beijsterveldt, M. Bartels, G.J. Savelsbergh, D.I. Boomsma/UK
- 09:30 **Break**
- 09:50 **poster prize**
- 10:30 **Laterality of the brain**
Lukas Pezawas/Vienna
- 11:00 **Molecular Studies of Human Cerebral Asymmetry: An Axis to Grind**
Daniel Geschwind/LosAngeles/London
- 11:30 **Asymmetry in fetal brain development**
Gregor Kasprian/Vienna
- 11:55 **farewell**
- 12:00 **End**

Saturday, 15th

11:00	Award of best posters	Poster Comittee: Susan Blaser/Toronto Ivica Kostovic/Zagreb Rainer Seidl/ Vienna Vasiliki Dermentoglou/Athens Wolfgang Arzt/Linz
09:50 - 10:00	Poster 3 rd prize	
10:00 - 10:10	Poster 2 nd prize	
10:10 - 10:20	Poster 1 st prize	

12:00 **Farewell and Boxlunch**

DFP/CME credits for the congress: 21

Social program
(please register on-site)

Thursday 13th May, 17:40-19:30: Cocktail at Börsensäle (included)

Sponsor:  **MeMed**
MENEGES MEDICAL

Friday 14th May, 19:30: Dinner at summer stage U4 Rossauer Lände (50 €)

Posters

- 01 MRI of Fetal Intracerebral Hemorrhage**
U. Asenbaum, A. Benco, K. Klebermass, G. Kasprian, P.C. Brugger, B.Ulm, D. Prayer
- 02 When can the Hippocampus be evaluated on fetal MRI?**
D. Bajic, N. Canto Moreira, J. Wikström, R. Raininko
- 03 Metabolism and fetal body surface - Quantification of the subcutaneous fat layer with MRI in normally developed fetuses and in fetuses of diabetic and adipose mothers**
V. Berger-Kulemann, P. C. Brugger, M. Reissegger, K. Klein, N. Hachemian, C. Koelblinger, M. Weber; D. Prayer
- 04 Chemical shift imaging of the fetal liver**
D. Berzaczy, G. Kasprian, X. Lii, M. Weber, A. Ba-Ssalamah, D. Prayer
- 05 Prenatal diagnosis of facial clefts by the combination of two-dimensional and three-dimensional ultrasound and fetal magnetic resonance**
V. Frisova, M. Kyncl, B. Prosova, L. Mrazkova, M. Rocek
- 06 Vena-Cava-Inferior-Compression-Syndrom in pregnant women-a fairy tale?**
D. Kienzl, G. Kasprian, V. Berger-Kulemann, P.Brugger, M. Weber, E Krampl-Bettelheim, D. Prayer
- 07 Magnetic resonance imaging of fetal alveolar process and teeth sockets**
M. Mailath-Pokorny, C. Worda, M. Weber, C. Czerny,G. Kasprian, P.C. Brugger, D. Prayer
- 08 Can syndromic macrocephaly be diagnosed in utero?**
G. Malinger, D. Lev, L. Ben-Sira, C. Hoffmann, M. Herrera, F. Viñals, H. Vinkler, S. Ginath, D. Kidron, T. Lerman-Sagie
- 09 Fetal MRI of the Pena-Shokeir Phenotype**
U. Nemec, S.F. Nemec, P.C. Brugger, D. Bettelheim, D. Prayer
- 10 Tumors in Utero: Spectrum of Findings on Fetal MRI**
U. Nemec, S.F. Nemec, G. Kasprian, P.C. Brugger, E. Horcher, D. Prayer
- 11 Does in-utero MRI aid in diagnosing syndromes with bilateral cystic dysplastic kidneys associated with brain anomalies?**
Sahar N Saleem
- 12 Fetal MRI on 1.5T and 3T in comparison: advantages and disadvantages.**
S. Savelli, M. Di Maurizio, C. Fonda
- 13 A well-documented multimodality imaging approach to fetus in fetu: from prenatal to postnatal imaging features.**
S. Savelli, M. Di Maurizio, C. Fonda
- 14 Impact of maternal smoking on fetal lung development – an in utero MRI investigation**
M. Schmid, N. Hachemian, A. Posch, C. Balassy, G. Kasprian, D. Prayer
- 15 Quantification of lung volumes in fetuses with tetralogy of Fallot using fetal MRI**
D. Sternal, E. Mlczoch, B. Ulm, V. Berger-Kulemann, D. Prayer, U. Salzer-Muhar
- 16 Fetal teratoma and the role of Fetal MRI to plan the management of the patient**
E.H. Whitby, F. Roberts, N. Bateman, J. Walker, A. Gibson, N. Pereira, S.V. Gandhi

Invited speakers and Chairpersons

Invited speakers and Chairpersons

Wolfgang Arzt, Maternity and Children's Hospital Linz, Institute of Prenatal Medicine, Linz, Austria

Monika Bekiesinska-Figatowska, Department of Diagnostic Imaging of the Institute of Mother and Child in Warsaw, Poland

Vanessa Berger-Kulemann, Medical University of Vienna, Department of Radiology, Vienna, Austria

Susan Blaser, Department of Diagnostic Imaging, the Hospital for Sick Children, University of Toronto, Toronto, Ontario, Canada

Eugen Boltshauser, Children's Hospital Zürich, Division of Neuropädiatrie, Zürich, Schweiz

Peter Brugger, Medical University of Vienna, Center of Anatomy and Cell Biology, Vienna, Austria

Rabih Chaoui, Center of Prenatal Diagnosis and Human Genetics, Berlin, Germany

Hanneke de Vries, VU University, Department of Obstetrics and Gynaecology, Amsterdam, The Netherlands

Daniel Geschwind, Department of Neurology, Psychiatry and Human Genetics, UCLA, Los Angeles, USA

Nilouparak Hachemian, Medical University of Vienna, Department of Obstetrics and Gynaecology, Vienna, Austria

Milos Judas, Section for Developmental Neuroscience, Croatian Institute for Brain Research, Zagreb, Croatia

Gregor Kasprjan, Medical University of Vienna, Department of Radiology, Vienna, Austria

Ivica Kostovic, Section for Developmental Neuroscience, Croatian Institute for Brain Research, Zagreb, Croatia

Elisabeth Krampfl-Bettelheim, Department of Obstetrics and feto-maternal Medicine Vienna, Austria

Gustavo Malinger, Department of Obstetrics and Gynaecology, Fetal Neurology Clinic, Wolfson Medical Center, Holon, Tel-Aviv University, Tel-Aviv, Israel

Christian Mitter, Medical University of Vienna, Department of Radiology, Vienna, Austria

Franklin Moser, Clinical Neuroradiology and Interventional Neuroradiology for Radiology Research FACR is S. Mark Taper Foundation Imaging Center/Cedars-Sinai Medical Center. Los Angeles, USA

Christian Našel, Landeskrankenhaus, Donauregion, Tulln, Department of Radiology, Tulln, Austria

Nilouparak Hachemian, Department of Obstetrics and feto-maternal Medicine Vienna, Austria

Ricardo Palma-Dias, Fetal Management Unit, Royal Women's Hospital, Melbourne, Australia

Lukas Pezawas, Medical University of Vienna, Department of Psychiatry and Psychotherapy, Vienna, Austria

Mariella Mailath-Pokorny, Department of Obstetrics and feto-maternal Medicine Vienna, Austria

Ritsuko Pooh, Clinical Research Institute of Fetal Medicine PMC, Osaka, Japan

Daniela Prayer, Medical University of Vienna, Division of Neuroradiology and Musculoskeletal Radiology, Vienna, Austria

Denise Pugash, Ultrasound 1 T48, BC Women's and Children's Hospital/ University of British Columbia, Canada

Siegfried Rothmensch, David Geffen School of Medicine, UCLA, Department of Obstetrics & Gynaecology, Cedars-Sinai Medical Center, Los Angeles, USA

Sahar Saleem, University Hospital Cairo, Egypt

Ulrike Salzer-Muhar, Medical University of Vienna, Department of Pediatrics and Adolescent Medicine Vienna, Austria

Rainer Seidl, Medical University of Vienna, Childrens Department, Vienna, Austria

Maria Stammler-Safar, Medical University of Vienna, Department of Obstetrics and Gyneology, Vienna, Austria

Andrea Superti-Furga, University of Freiburg Department of Pediatrics, Freiburg, Gemany

Max Schmid, Department of Obstetrics and feto-maternal Medicine Vienna, Austria

Maria-Theresa Schmook, Medical University of Vienna, Division of Neuroradiology and Musculoskeletal Radiology, Vienna, Austria

Ilan Timor-Tritsch, New York University Medical Center, Department of Obstetrics & Gynecology, New York

Michael Weber, Medical University of Vienna, Department of Radiology, Vienna, Austria

Registration

Arrangement* / Fees	Category	Before November 30, 2009 (Early bird fee)	From December 1, 2009 until March 31, 2010 (Standard fee)	From March 31, 2010 and On Site (Late fee)
1. Course without Hands-on workshop	MD, PhD	€ 240,-	€ 270,-	€ 320,-
	Technologist	€ 190,-	€ 220,-	€ 270,-
2. Course with Hands-on workshop	MD, PhD	€ 290,-	€ 320,-	€ 370,-
	Technologist	€ 240,-	€ 270,-	€ 320,-
3. Congress without Hands-on workshop	MD, PhD	€ 250,-	€ 290,-	€ 340,-
	Technologist	€ 200,-	€ 240,-	€ 290,-
4. Congress with Hands-on workshop	MD, PhD	€ 290,-	€ 330,-	€ 380,-
	Technologist	€ 250,-	€ 290,-	€ 330,-
5. Course & Congress without Hands-on workshop	MD, PhD	€ 330,-	€ 370,-	€ 420,-
	Technologist	€ 290,-	€ 330,-	€ 380,-
6. Course and Congress with Hands-on workshop	MD, PhD	€ 390,-	€ 430,-	€ 490,-
	Technologist	€ 330,-	€ 370,-	€ 420,-
7. Hands-on workshop only	MD, PhD	€ 110,-	€ 130,-	€ 150,-
	Technologist	€ 80,-	€ 100,-	€ 130,-

Members of the Austrian Society of Perinatology pay 40 less of all fees
 Payments to:
 "Fetal MRI 2010" Bank Austria BLZ: 12000 Account number 50457 181 802
 IBAN: AT69 1200 0504 5718 1802 BIC: BKAUATWW Payment to: Guido Holznecht Verein

Fees include Abstracts, Coffee breaks, Lunches, Cocktail.
 Please understand that registration will be only valid after full payment is received.

Hotel reservation:
 Cornelia Enzfelder
 E-mail: cornelia.enzfelder@eurotours.at
 Phone: +43 (1) 20560626
 Fax: +43 (1) 20560699

We wish to thank the following sponsors:



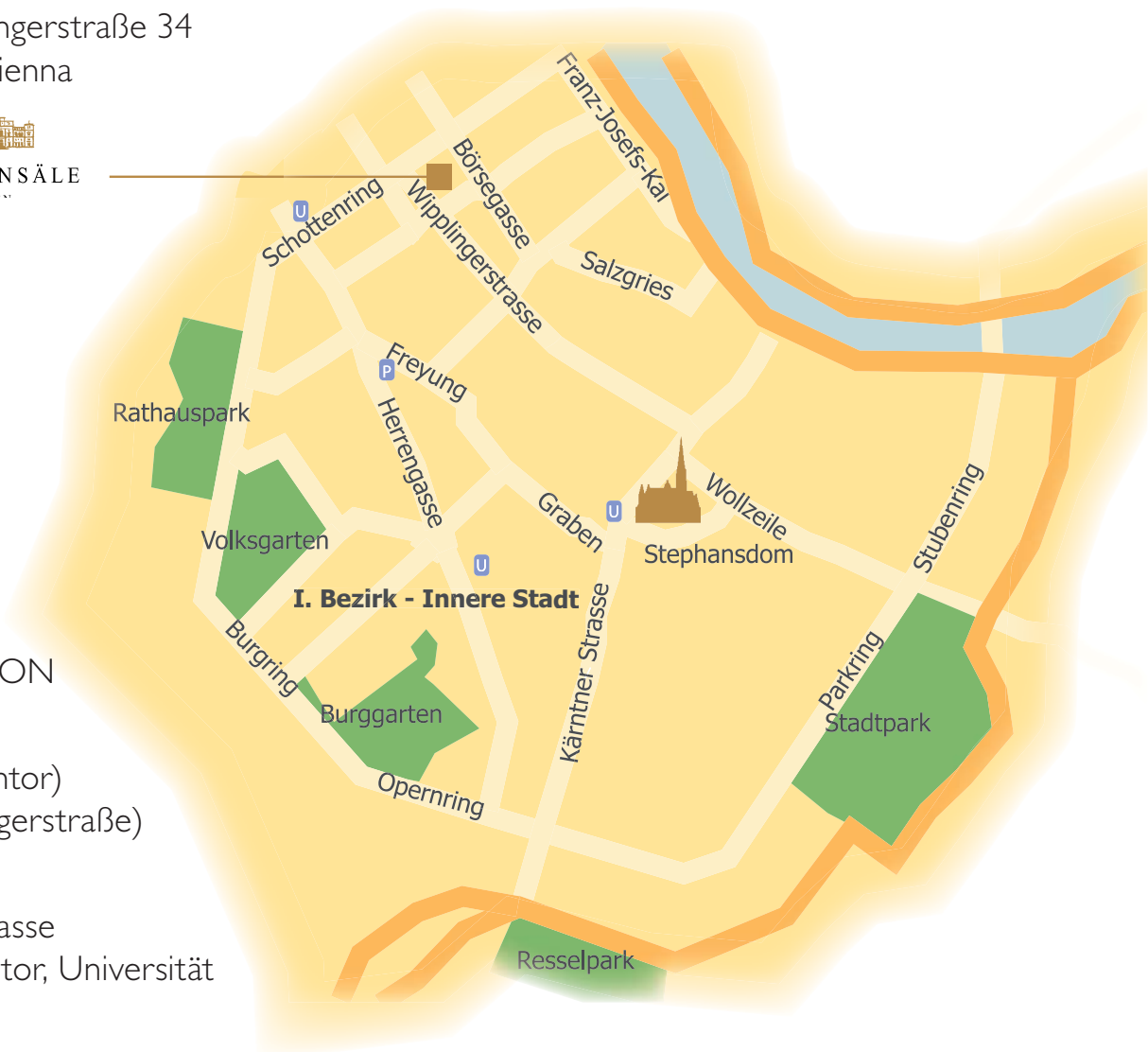
GE Healthcare



PHILIPS

SIEMENS

Location: Wiener Börsensäle
Wipplingerstraße 34
1010 Vienna



BY PUBLIC
TRANSPORTATION

Bus

1A (stop Schottentor)

3A (stop Wipplingerstraße)

Underground

U3-stop Herrengasse

U2-stop Schottentor, Universität

Tram

D, 1 - in front of the building

38, 39, 40, 41, 42, 43 and 44 – stop Schottentor, 3 min to go