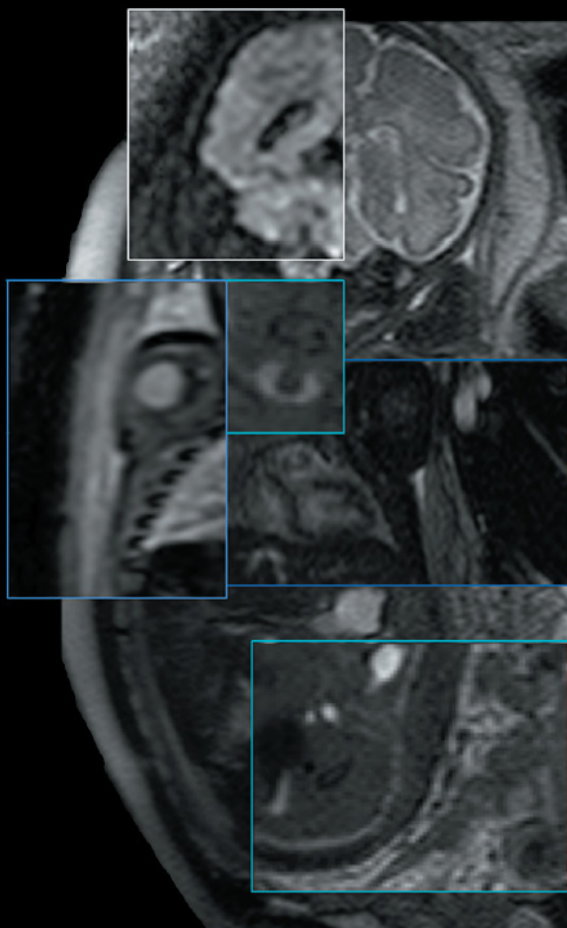


3rd Fetal MRI Course
2nd Fetal MRI Congress



Vienna
May, 15th – 17th 2008

PHILIPS



Dear Participants of the Third International Course and Second International Congress on Fetal MRI,

Most of you have now already integrated fetal MRI in your daily work or at least in your scientific projects. In contrast to former years where only very few groups have contributed to the course and scientific program there are many more at the present event. This is a great pleasure as it shows that the interest in fetal MRI of different specialities is increasing, making the method to an acknowledged tool of prenatal diagnostics.

One of our most important duties is now to develop standards for fetal MRI in order to increase the confidence in this method. Being able to get information on the fetus in all its integrity of a human being requires to deal with the development of human behavior. Thus an international society of fetal neurology will be founded. I am very happy to welcome you (again) in Vienna at the beautiful location of Palais Auersperg that will form an inspiring frame for our course and conference. Welcome to the Viennese fetal event.

Daniela Prayer

3rd Fetal MRI-Course, May 15th 2008

2nd Fetal MRI Congress, May 16th-17th 2008

Faculty:

Daniela Prayer
Peter C. Brugger
Gregor Kasprian
Elisabeth Krampfl
Ernst Horcher
Medical University Vienna, Austria

Invited Speakers:

Christa Einspieler /Heinz Prechtl/ Graz, Austria
Laura Flores-Sarnat/ Harvey Sarnat/ Calgary, Canada
Penny Gowland / Nottingham, UK
Ivica Kostovic/Milos Judas/ Zagreb, Croatia
Gustavo Malinger/ Holon, Israel
David Nyberg / Scottsdale, USA
Gianluigi Pilu/ Bologna, Italy
Jose L. Peiró / Barcelona, Spain
Orly Reiner/ Tel Aviv, Israel

Venue:

Palais Auersperg, Auerspergstraße1, 1080 Wien
Contact/Information: daniela.prayer@meduniwien.ac.at
See map last page

Thursday, May 15th, Fetal MRI Course, Morning

07:30	Registration	
08:15	Welcome address	Husslein/Pollak/Prayer
08:30	Session I Chair: F Ebner, Graz/Austria D Prayer, Vienna/Austria	
08:30-08:50	Training in fetal MRI and ultrasound - where are we - where should we go? D Nyberg, Washington/USA	
08:50-09:10	Fetal MRI - Safety P Gowland, Nottingham/UK	
09:10-09:35	Development of cerebral connectivity I Kostovic, Zagreb/Croatia	
09:35-10:00	Transient patterns of cortical lamination M Judas, Zagreb/Croatia	
10:00-10:30	Break	
10:30	Session II Chair: M Judas, Zagreb/Croatia D Nyberg, Washington/USA	
10:30-11:00	Fetal MRI until GW 24: what can we see? PC Brugger, Vienna/Austria	
11:00-11:30	Normal CNS anatomy until GW 24: Ultrasound and MRI G Malinger, Tel Aviv/Israel G Kasprian, Vienna/Austria	
11:30-12:00	3D Ultrasound of the fetal nervous system G Pilu, Bologna/Italy	
12:00-12:30	The genetic background of lissencephalies O Reiner, Tel Aviv/Israel	
12:30- 13:30	Lunch	

Thursday, May 15th, Fetal MRI Course, Afternoon

13:30	Session III Chair: I Kostovic, Zagreb/Croatia G Pilu, Bologna/Italy	
13:30-13:55	Phylogeny and ontogeny of early human behavior H Prechtl, C Einspieler, Graz/Austria	
13:55-14:20	Fetal neurology G Malinger, Tel Aviv/Israel D Prayer, Vienna/Austria	
14:20-14:50	MRI of the normal and pathological lung G Kasprian, Vienna/Austria	
14:50-15:15	MRI of complex fetal pathologies PC Brugger, Vienna/Austria	
15:15-15:40	Break	
15:40	Session IV Chair: E Horcher, Vienna/Austria D Bettelheim, Vienna/Austria	
15:40-16:00	Ultrasound and MRI in multiples E Krampl, D Prayer, Vienna/Austria	
16:00-16:25	Fetal imaging of pathologies with intrauterine treatment options E Krampl, G Kasprian, Vienna/Austria	
16.25-16:55	Fetal surgery - experiment or treatment? JL Peiró, Barcelona/Spain	
16:55	End	
	DFP/CME credits for the course: 10	
18:00	Cocktail/Concert	

Friday, May 16th, Fetal MRI Congress, Morning

08:00	Registration	
08:25	Welcome	Arzt, Prayer
08:30	Fetal Brain I	
	Chair:	
	L Pistorius, Utrecht/Netherlands	
	F Kainer, Munich/Germany	
08:30-08:50	Fetal neurosonography in the management of high risk pregnancies	
	G Pilu, Bologna/Italy	
08:50-09:05	MRI of acute brain lesions	
	D Prayer, Vienna/Austria	
09:05-09:20	Ultrasound/ MRI of fetal infection	
	G Malinger, Tel Aviv/Israel	
09:20	Scientific Session: Fetal Brain II	
	Chair:	
	G Malinger, Tel Aviv/Israel	
	G Kasprian, Vienna/Austria	
09:20-09:30	Comparative evaluation of diagnostic value of prenatal US and MR in diagnosis of foetal central nervous system defects	
	I Herman-Sucharska, A Urbanik, M Bekiesinska-Figatowska, A Romianiuk-Doroszewska, A Duczkowska, A Mamak-Balaga, A Grzyb	
09:30-09:40	Fetal neuroradiology: value of fetal MRI	
	D Blondin, M Cohnen, U Mödder, R Hammer, M Messing-Jünger, J Schaper	
09:40-09:50	Prenatal diagnosis of central nervous system malformations with magnetic resonance imaging	
	E Bravo, G Marcelo, C Okuma, R Rodrigo, S Gabriel, B Lautaro	
09:50-10:00	The developing posterior fossa: the value of biometrical measurements in cases with pathology	
	T Lavanya, R Batty, J Eames, PD Griffiths, MN Paley, EH Whitby	
10:00-10:10	Abnormalities of the cerebellum diagnosed prior to 24 weeks	
	EH Whitby, PD Griffiths, MN Paley, M Cohen	
10:10-10:20	Normal fetal brain development: Magnetic resonance parameters in gestational weeks 19 to 24	
	R Chung, PC Brugger, G Kasprian, D Prayer	
10:30-11:00	Break	

Friday, May 16th, Fetal MRI Congress, Morning

11:00	Scientific Session: Fetal Body	
	Chair:	
	C Herold, Vienna/Austria	
	PC Brugger, Vienna/Austria	
11:00-11:10	Congenital diaphragmatic hernia: Predictive value of a new MR-based lung-to-head ratio in comparison to MR fetal lung volume measurement and US-based lung-to-head ratio	
	KA Büsing, AK Kilian, T Schaible, KW Neff	
11:10-11:20	Logistic regression analysis based on MRI lung volume measurement in fetuses with CDH before and after 30 weeks' gestation: Prediction of mortality and the need for ECMO therapy	
	KA Büsing, AK Kilian, T Schaible, D Dinter, KW Neff	
11:20-11:30	Fetal lung maturity assessed by approximative T2 relaxation measurements	
	M Gatterer, G Kasprian, PC Brugger, E Krampfl, C Herold, D Prayer	
11:30-11:40	Foetal Lung volumes in MR examinations as a prognostic factor for cardiovascular and respiratory defects of neonates	
	I Herman-Sucharska, A Glen, A Urbanik, A Mamak-Balaga, D Pawlik, A Bryll, R Lauterbach	
11:40-11:50	Can we predict fetal outcome after preterm premature rupture of membranes by using fetal MRI?	
	A Messerschmidt, A Patarai, H Helmer, G Kasprian, A Sauer, PC Brugger, A Pollak, M Weber, D Prayer	
11:50-12:00	Lung development in congenital diaphragmatic hernia: Is the controlateral lung "normal"?	
	C Balassy, G Kasprian, B Csapo, PC Brugger, D Prayer	
12:00-12:10	MR in the foetal genitourinary system abnormalities	
	I Herman-Sucharska, A Urbanik, A Mamak-Balaga, A Grzyb, M Szafirska, J Tomaszczyk	
12:10-12:20	Magnetic resonance imaging (MRI) of the heart in utero using balanced Steady State Free Precession sequence along fetal body and cardiac planes: is it feasible?	
	SN Saleem	
12:20-12:30	The role of magnetic resonance imaging in prenatal diagnosis of facial clefts	
	M Mailath-Pokorny, E Krampfl, F Watzinger, PC Brugger, D Prayer	
12:30-13:30	Lunch	

Friday, May 16th, Fetal MRI Congress, Afternoon

15:20	Scientific Session: Extrafetal structures/ Free communications Chair: P Gowland, Nottingham/UK S Dekan, Vienna/Austria
15:20-15:30	The extrafetal findings in prenatal MRI: Evaluation of the placenta, cord and cervix. T Victoria, M Epelman, L States, A Johnson, B Coleman, S Mann, T Feygin
15:30-15:40	Magnetic resonance imaging of the placenta in intra-uterine growth restriction M Damodaram, L Story, G Paramasivam, S Kumar, M Rutherford
15:40-15:50	Normal values of relaxation times of human placenta at 1.5 Tesla CJ Vance, RD Newbould, E Rubesova, RA Barth, R Bammer
15:50-16:00	MRI of the placenta: pathohistological correlation N Linduska, S Dekan, PC Brugger, E Krampfl, K Calubinski, G Kasprian, D Prayer
16:00-16:10	Multislice CINE sequence to assess patterns of fetal behaviour T Hayat, J Allsop, J Hajnal, M Rutherford
16:10-16:20	Fetal MRI using open machines: preliminar results F Zennaro, G Pelizzo, G d'Ottavio
16:20-16:30	Actual imaging time in fetal MRI PC Brugger, D Prayer
16:30-16:40	Psychological experience of fetal magnetic resonance imaging K Leithner, S Pörnbacher, E Assem-Hilger, E Krampfl, E Ponocny-Seliger, D Prayer
16:40	End
17:30	Foundation Session Society of Fetal Neurology
19:30	Dinner

Friday, May 16th, Fetal MRI Congress, Afternoon

Parallel: Hands On Workshop at DZU

13:30	Scientific Session: Fetal Therapy/ Free Communications Chair: EH Whitby, Sheffield/UK A Lee, Brisbane, Australia
13:30-13:40	Percutaneous fetoscopic patch coverage of spina bifida aperta in the human A Heep, A Müller, AR Franz, P Bartmann, U Gembruch, T Kohl
13:40-13:50	Fetal magnetic resonance imaging: a resume after 139 surgical cases U Tonnhofer, D Prayer, G Kasprian, PC Brugger, E Horcher
13:50-14:00	Inter-observer variation in evaluation of ultrasound and MRI imaging of the fetal brain. LR Pistorius, JIP de Vries, F Vandebussche, F Slaghekke
14:00-14:10	Prenatal brain pathology in congenital heart disease E Maschke-Mlczoch, PC Brugger, A Hanslik, B Ulm, U Salzer-Muhar, D Prayer
14:10-14:20	Prenatal ultrasound findings leading to fetal MRI diagnosis of lissencephaly M Schmid, E Krampfl, W Arzt, PC Brugger, W Blaicher, D Prayer
14:20-14:30	Functional MR imaging (fMRI) of the sensorimotor system in preterm infants A Heep, L Scheef, J Jankowski, M Born, N Zimmermann, P Bartmann, H Schild, H Boecker
14:30-14:40	Fetal demise in mono chorionic twins: US versus MRI A Lee, C Portmann, S Sinnott, G Duncombe
14:40-14:50	Magnetic resonance imaging of the fetal efferent lacrimal pathways PC Brugger, D Prayer
15:00-15:20	Break

Friday, May 16th, Fetal MRI Congress, Afternoon

Hands-on workshop on Friday 16th in 2 groups, assignment to your group at registration!

Group I 13:30-14:30
Group II 14:30-15:30

DFP/CME credits for the workshop: 6

Venue:

Diagnosezentrum Urania (DZU), Laurenzerberg 2, 1010 Wien



How to get there:

Bus 2A: stop: Volkstheater to stop: Schwedenplatz (10-15 minutes).

Saturday, May 17th, Fetal MRI Congress, Morning

08:00	Registration
08:30	Fetal Brain III Chair: H Prechtl, Graz/Austria D Prayer, Vienna/Austria
08:30-09:05	Axes and gradients of the neural tube and induction H Sarnat, Calgary/Canada
09:05-09:45	Fetal ventriculomegaly L Flores-Sarnat, Calgary/Canada
09:45	Scientific Session: CNS Chair: O Reiner, Tel Aviv/Israel H Sarnat, Calgary/Canada
09:45-09:55	Quantification of human fetal brain development in utero using multislice snapshot MRI with 3D volume reconstruction T Hayat, S Jiang, J Allsop, J Hajnal, M Rutherford
09:55-10:05	Magnetic resonance spectroscopy: is this a useful non invasive tool to detect lactate?- The results of a small pilot study EH Whitby, A Chetwood, A Oates, T Farrell, PD Griffiths, MN Paley, R Fraser
10:05-10:15	Proton magnetic resonance spectroscopy and the fetal brain in normally grown and growth restricted fetuses L Story, M Damodaram, M Wylezinska-Arridge, S Kumar, M Rutherford
10:15-10:25	Fetal MRI in the evaluation of fetuses referred for sonographically-suspected neural tube defects (NTDs): Impact on diagnosis and management decision SN Saleem, MS Zaki, K Gaber, M Shokry
10:25-10:35	The superiority of magnetic resonance imaging (MRI) over sonography in the evaluation of the fetal vertebral canal contents. A Duczkowska, M Bekiesinska-Figatowska, I Herman-Sucharska, M Duczkowski, A Romaniuk-Doroszewska, A Urbanik, A Dubis
10:35-10:45	Prenatal ultrasound and MRI findings in closed spinal dysraphism D Pugash, B Irwin, K Lim, P Thiessen, K Poskitt, D Cochrane
10:45-11:00	Break

Saturday, May 17th, Fetal MRI Congress, Morning

11:00	Award of best posters	Poster Comittee: S Blaser G Pilu H Imhof D Nyberg
11:10-11:20	Poster 3 rd prize	
11:20-11:30	Poster 2 nd prize	
11:30-11:40	Poster 1 st prize	
12:00	Farewell and Boxlunch	

DFP/CME credits for the congress: 13

Social program

(please register on-site)

Thursday 15th May, 17:00-18:00: Cocktail at Palais Auersperg (included)

Thursday 15th May, 18:00-19:30: Concert (30 €)

Friday 16th May, 19:30: Dinner at Justizpalast (50 €)

Posters

- 01** **Infarction of the middle cerebral artery in the late 2nd trimester leads to disorders of cortical migration**
PC Brugger, G Kasprian, E Hafner, D Prayer
- 02** **Transient CSF-like cystic lesion of the foetal brain: MRI and Ultrasound**
M Caulo, C Celentano, M Liberati, D Giancristofaro, C Briganti, A Tartaro
- 03** **Bladder extrophy and prenatal diagnosis using 3-D ultrasound and fetal MRI**
C Celentano, M Caulo, T Cardellini, B Matarrelli, G Lisi, P Lelli Chiesa, A Tartaro, M Liberati
- 04** **Fetal MRI reveals a kindred with progressive expression of posterior fossa anomalies**
AM Fink, G Mc Gillivray, R Palma Dias
- 05** **Prenatal diagnosis of giant multiloculated arachnoid cyst: Ultrasound and Ultrafast Magnetic resonance imaging study**
IA Hosny, MM Momtaz, MAM.Issa
- 06** **Prenatal diagnosis of diastematomyelia associated with myelocystocele and Chiari 2 malformation: Ultrasound and MRI study**
IA Hosny, EE Alaa, AM Issa
- 07** **Congenital diaphragmatic eventration**
E Karpf, M Häusler, D Schlembach, PC Brugger
- 08** **Assessment and imaging features of lymphangiomas in fetal MR**
C Koelblinger, PC Brugger, S Nemeč, A Koller, J Burtscher, D Bettelheim, CJ Herold, D Prayer
- 09** **The upper extremity in fetal MRI: preliminary experience**
SF Nemeč, PC Brugger, D Prayer
- 10** **Prenatal diagnosis of left lung agenesis. MRI advantages on early diagnosis and prognosis**
G Pelizzo, G d'Ottavio, F Zennaro
- 11** **Comparison of neonatal MRI examinations with and without an MR-compatible incubator: advantages in examination feasibility and clinical decision-making**
Z Rona, K Klebermass, F Cardona, PC Brugger, M Weninger, A Pollak, D Prayer
- 12** **Forebrain development in fetal MRI: Detectability before gestational week 27.**
MT Schmook, PC Brugger, M Weber, G Kasprian, D Prayer
- 13** **Fetal cerebral ventriculomegaly - prenatal diagnosis, associated malformations and postpartal outcome**
V Tauscher, M Mailath-Pokorny, E Krampfl, PC Brugger, A Messerschmidt, D Prayer

Invited speakers and Chairpersons

Wolfgang Arzt, Maternity and Children's Hospital Linz, Institute of Prenatal Medicine, Linz, Austria
Dieter Bettelheim, Department of Obstetrics and Feto-Maternal Medicine, Medical University of Vienna, Vienna, Austria
Susan Blaser, Department of Diagnostic Imaging, The Hospital for Sick Children, University of Toronto, Toronto, Ontario, Canada
Sabine Dekan, Clinical Institute of Pathology, Medical University of Vienna, Vienna, Austria
Franz Ebner, Division of Neuroradiology, Department of Radiology, Medical University of Graz, Graz, Austria
Christa Einspieler, Section Developmental Physiology and Developmental Neurology, Institute of Physiology, Center for Physiological Medicine, Medical University of Graz, Austria
Laura Flores-Sarnat, Division of Pediatric Neurology, Alberta Children's Hospital, Calgary, Alberta, Canada
Penny Gowland, Sir Peter Mansfield Magnetic Resonance Centre, School of Physics and Astronomy, University of Nottingham, Nottingham, UK
Christian Herold, University Clinics of Radiodiagnostics, Medical University of Vienna, Vienna, Austria
Ernst Horcher, Department of Pediatric Surgery, Medical University of Vienna, Vienna, Austria
Peter Husslein, Department of Obstetrics and Gynecology, Medical University of Vienna, Vienna, Austria
Herwig Imhof, University Clinics of Radiodiagnostics, Medical University of Vienna, Vienna, Austria
Milos Judas, Section for Developmental Neuroscience, Croatian Institute for Brain Research, Zagreb, Croatia
Franz Kainer, Department of Obstetrics and Gynecology, Prenatal Medicine Unit, Ludwig-Maximilians University Munich, Germany
Ivica Kostovic, Section for Developmental Neuroscience, Croatian Institute for Brain Research, Zagreb, Croatia
Andreas Lee, Royal Womens Hospital, Herston, Australia
Gustavo Malinger, Department of Obstetrics and Gynecology, Fetal Neurology Clinic, Wolfson Medical Center, Holon, Tel-Aviv University, Tel-Aviv, Israel
David Nyberg, Fetal and Women's Center of Arizona, Scottsdale, AZ, USA
Jose L. Peiró, Fetal and Neonatal Surgery Unit and Pediatric Orthopedics Unit, Pediatric Surgery Department, Vall d'Hebron University Hospital, Barcelona, Spain
Gianluigi Pilu, Department of Obstetrics and Gynecology, Policlinico S. Orsola-Malpighi, Bologna, Italy
Lou Pistorius, Department Obstetrics, University Medical Centre Utrecht, Utrecht, Netherlands
Arnold Pollak, Department of Neonatology and Paediatric Intensive Care, University Children's Hospital, Medical University of Vienna, Vienna, Austria
Heinz Prechtel, Section Developmental Physiology and Developmental Neurology, Institute of Physiology, Center for Physiological Medicine, Medical University of Graz, Austria
Orly Reiner, Department of Molecular Genetics, The Weizmann Institute of Science, Rehovot, Israel
Harvey Sarnat, Department of Paediatrics, University of Calgary Faculty of Medicine and Alberta Children's Hospital, Calgary, Alberta, Canada
Elsbeth Whitby, Section of Academic Radiology, University of Sheffield, Royal Hallamshire Hospital, Sheffield, UK

Registration

Fees/arrangement:

	MD, PhD	Technologist
1. Course without Hands-on workshop		
Before March 15 th 2008	€ 200	€ 150
After March 15 th 2008	€ 250	€ 200
2. Course with Hands-on workshop		
Before March 15 th 2008	€ 250	€ 200
After March 15 th 2008	€ 300	€ 250
3. Congress without Hands-on workshop		
Before March 15 th 2008	€ 200	€ 150
After March 15 th 2008	€ 250	€ 200
4. Congress with Hands-on workshop		
Before March 15 th 2008	€ 250	€ 200
After March 15 th 2008	€ 300	€ 250
5. Course & Congress without Hands-on workshop		
Before March 15 th 2008	€ 300	€ 250
After March 15 th 2008	€ 350	€ 300
6. Course and Congress with Hands-on workshop		
Before March 15 th 2008	€ 350	€ 300
After March 15 th 2008	€ 400	€ 350
7. Hands-on workshop only		
Before March 15 th 2008	€ 100	€ 50
After March 15 th 2008	€ 150	€ 70

Members of the Austrian Society of Perinatology pay €40 less of all fees
 Payments to: "Fetal MRI 2008" BAWAG BLZ: 14000
 Account number: 01310-047-240, IBAN: AT111400001310047240
 SWIFT: BAWAATWW

Please indicate the number of your arrangement (1-7) on the paycheck
 Fees include Abstracts, Coffee breaks, Lunches
 Please understand that registration will be only valid after full payment is received

Hotel reservation:

Eurotours – Eva-Maria Adler
 Phone: 0043-1-205606-52, Fax: 0043-1-205606-77
 E-Mail: eva.maria.adler@eurotours.at

We wish to thank the following sponsors:

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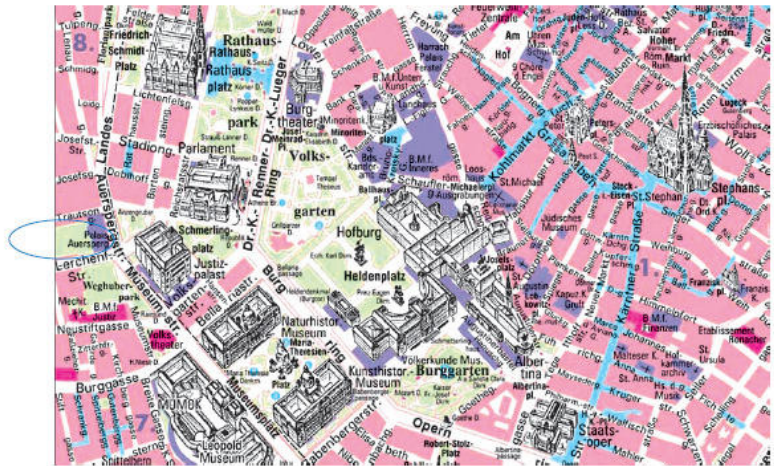
Guerbet GesmbH

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Location

Palais Auersperg
AuerspergstraÙel
1080 Wien



Quelle: Freytag & Berndt

