

# 1<sup>ST</sup> RESIDENTIAL TRAINING COURSE

of the **ESNCH** 

European Society of Neurosonology  
and Cerebral Hemodynamics



**Bertinoro (Italy)**  
**September 7-12, 2008**

*Preliminary Program*

---

## ORGANIZING COMMITTEE

**C. Baracchini • M. Del Sette • P. Limoni • G. Meneghetti**

*claudiobaracchini@tin.it • mdelsette@neurologia.unige.it • paololimoni@yahoo.it • giorgio.meneghetti@unipd.it*

---

## EXECUTIVE COMMITTEE OF THE ESNCH

**C. Baracchini**, *Italy*

**E. Bartels**, *Germany*

**N. Bornstein**, *Israel*

**L. Csiba**, *Hungary*

**M. Del Sette**, *Italy*

**J. Klingelhoef**, *Germany*

**C. Molina**, *Spain*

**K. Niederkorn**, *Austria*

**E.B. Ringelstein**, *Germany*

**D. Russell**, *Norway*

**M. Sturzenegger**, *Switzerland*

---

## SCIENTIFIC COMMITTEE

**R. Aaslid**, *Switzerland*

**A. Amato**, *Italy*

**F. Annoni**, *Italy*

**L. Antignani**, *Italy*

**G.P. Anzola**, *Italy*

**C. Baracchini**, *Italy*

**E. Bartels**, *Germany*

**N. Bornstein**, *Israel*

**N. Carraro**, *Italy*

**S. Castellani**, *Italy*

**P. Ciliberto**, *Italy*

**L. Csiba**, *Hungary*

**M. Del Sette**, *Italy*

**Z. Garamy**, *USA*

**M. Kaps**, *Germany*

**J. Klingelhoef**, *Germany*

**W. Liboni**, *Italy*

**P. Limoni**, *Italy*

**L. Lusiani**, *Italy*

**G. Malferrari**, *Italy*

**M. Marinoni**, *Italy*

**G. Meneghetti**, *Italy*

**C. Molina**, *Spain*

**K. Niederkorn**, *Austria*

**R. Novario**, *Italy*

**F. Rasulo**, *Italy*

**D. Righi**, *Italy*

**E.B. Ringelstein**, *Germany*

**D. Russell**, *Norway*

**G. Seidel**, *Germany*

**M. Siebler**, *Germany*

**L.G. Spagnoli**, *Italy*

**E. Stolz**, *Germany*

**M. Sturzenegger**, *Switzerland*

**P.J. Touboul**, *France*

**G.M. von Reutern**, *Germany*

**U. Walter**, *Germany*

---

## INVITED SPEAKERS AND CHAIRMEN

**R. Aaslid**, *Seattle, Usa*

**A. Amato**, *Bologna, Italy*

**F. Annoni**, *Milano, Italy*

**L. Antignani**, *Roma, Italy*

**G.P. Anzola**, *Brescia, Italy*

**C. Baracchini**, *Padova, Italy*

**E. Bartels**, *Göttingen, Germany*

**N. Bornstein**, *Tel Aviv, Israel*

**N. Carraro**, *Trieste, Italy*

**S. Castellani**, *Firenze, Italy*

**P. Ciliberto**, *Milano, Italy*

**L. Csiba**, *Debrecen, Hungary*

**M. Del Sette**, *Genova, Italy*

**Z. Garami**, *Houston, Usa*

**M. Kaps**, *Giessen, Germany*

**W. Liboni**, *Torino, Italy*

**P. Limoni**, *Bologna, Italy*

**L. Lusiani**, *Padova, Italy*

**G. Malferrari**, *Reggio Emilia, Italy*

**M. Marinoni**, *Firenze, Italy*

**G. Meneghetti**, *Padova, Italy*

**C. Molina**, *Barcelona, Spain*

**K. Niederkorn**, *Graz, Austria*

**R. Novario**, *Varese, Italy*

**F. Rasulo**, *Brescia, Italy*

**D. Righi**, *Firenze, Italy*

**E.B. Ringelstein**, *Münster, Germany*

**D. Russel**, *Oslo, Norway*

**G. Seidel**, *Lübeck, Germany*

**M. Siebler**, *Diüsseldorf, Germany*

**L.G. Spagnoli**, *Roma, Italy*

**E. Stolz**, *Giessen, Germany*

**P.J. Touboul**, *Paris, France*

**G.M. Von Reutern**, *Nidda, Germany*

**U. Walter**, *Rostock, Germany*

## Sunday, September 7<sup>th</sup> 2008

---

- 16.00-17.30 Registration of participants  
17.30-18.00 Greetings from the Organizing Committee  
18.00-18.30 **Lecture: Neurosonology in Europe** - G.M. Von Reutern  
18.45-20.00 *Welcome Party*

## Monday, September 8<sup>th</sup> 2008

---

### PRINCIPLES OF ULTRASONOGRAPHY

*Chairmen: W. Liboni, G. Meneghetti*

- 9.00-9.30 **Physical and Technical principles**  
*R. Novario*
- 9.30-10.00 **Artefacts in vascular imaging**  
*P. Ciliberto*
- 10.00-10.30 *Discussion*
- 10.30-11.00 *Coffee Break*
- 11.00-12.30 • **PRACTICAL SESSION**  
*P. Ciliberto, R. Novario*
- 12.30-14.00 *Lunch*



### ULTRASONOGRAPHY OF THE CERVICAL VESSELS

*Chairmen: A. Amato, L. Lusiani*

- 14.00-14.30 **Extracranial insonation: how to do it?**  
*S. Castellani*
- 14.30-15.00 **Extracranial insonation: tricks and pitfalls**  
*L. Antignani*
- 15.00-15.30 **Arterial wall imaging: IMT and wall motion**  
*P.J. Touboul*
- 15.30-16.00 **Endothelial function testing**  
*L. Csiba*
- 16.00-16.30 *Discussion*
- 16.30-16.50 *Coffee Break*
- 16.50-18.30 • **PRACTICAL SESSION**  
*A. Amato, L. Antignani, S. Castellani, L. Csiba, D. Righi, P.J. Touboul*

# Tuesday, September 9<sup>th</sup> 2008

## ULTRASONOGRAPHY OF THE CERVICAL VESSELS

*Chairmen: M. Del Sette, J. Klingelhoef*

- 8.30-9.00      **Extracranial active carotid plaque**  
*L.G. Spagnoli*
- 9.00-9.30      **Cervical vessels: atherosclerotic disease**  
*L. Lusiani*
- 9.30-10.00    **Cervical vessels: non atherosclerotic disease**  
*C. Baracchini*
- 10.00-10.30   **Contrast agents**  
*E. Bartels*
- 10.30-11.00   *Discussion*
- 11.00-11.30   *Coffee Break*
- 11.30-13.00   • **PRACTICAL SESSION**  
*C. Baracchini, E. Bartels, L. Lusiani*
- 13.00-14.00   *Lunch*

## TRANSCRANIAL ULTRASONOGRAPHY

*Chairmen: G.P. Anzola, E. Bartels*

- 14.00-14.30   **Transcranial insonation**  
*N. Carraro*
- 14.30-15.00   **Intracranial vessels: stenosis, occlusion**  
*J. Klingelhoef*
- 15.00-15.30   **Cerebral veins: normal and pathological findings**  
*E. Stolz*
- 15.30-16.00   **Vasomotor Reactivity and Functional TCD**  
*E.B. Ringelstein, M. Ritter*
- 16.00-16.30   *Discussion*
- 16.30-17.00   *Coffee Break*
- 17.00-19.00   • **PRACTICAL SESSION**  
*N. Carraro, M. Kaps, M. Ritter, E. Stolz*

## TRANSCRANIAL ULTRASONOGRAPHY

*Chairmen: C. Molina, M. Ritter*

- 8.30-9.00 **Microemboli detection**  
*D. Russell*
- 9.00-9.30 **PFO detection in young stroke patients**  
*M. Del Sette*
- 9.30-10.00 **PFO and migraine**  
*G.P. Anzola*
- 10.00-10.30 *Discussion*
- 10.30-11.00 *Coffee Break*
- 11.00-13.00 • **PRACTICAL SESSION**  
*G.P. Anzola, M. Del Sette, D. Russell*
- 13.00-14.00 *Lunch*

## TRANSCRANIAL ULTRASONOGRAPHY

*Chairmen: C. Baracchini, Z. Garami*

- 14.00-14.30 **Acute stroke: diagnosis and monitoring**  
*G. Malferrari*
- 14.30-15.00 **Acute stroke: perfusion imaging**  
*E. Stolz*
- 15.00-15.30 **Acute stroke: sonothrombolysis**  
*C. Molina*
- 15.30-16.00 *Discussion*
- 16.00-16.30 *Coffee Break*
- 16.30-18.30 • **PRACTICAL SESSION**  
*Z. Garami, G. Malferrari, C. Molina, E. Stolz*



## Thursday, September 11<sup>th</sup> 2008

---

### TRANSCRANIAL ULTRASONOGRAPHY

*Chairmen: P. Limoni, M. Marinoni*

- 8.30-9.00      **US and movements disorders (DBS)**  
*U. Walter*
- 9.00-9.30      **Cognitive impairment and US**  
*N. Bornstein*
- 9.30-10.00    **TCD in heart surgery and in endovascular procedures**  
*Z. Garami*
- 10.00-10.30   *Discussion*
- 10.30-11.00   *Coffee Break*
- 11.00-13.00   • **PRACTICAL SESSION**  
*N. Bornstein, Z. Garami, U. Walter*

### TRANSCRANIAL ULTRASONOGRAPHY

*Chairmen: Z. Garami, G. Meneghetti*

- 14.00-14.30   **TCD monitoring in vascular surgery**  
*P. Limoni*
- 14.30-15.00   **TCD monitoring in ICU**  
*F. Rasulo*
- 15.00-15.30   **Cerebral circulatory arrest**  
*M. Marinoni*
- 15.30-16.00   **Neurosonology in the future**  
*N. Bornstein*
- 16.00-16.30   *Coffee Break*
- 16.30-18.30   • **PRACTICAL SESSION**  
*P. Limoni, M. Marinoni, F. Rasulo*

## Friday, September 12<sup>th</sup> 2008

---

### TEST IN NEUROSONOLOGY (OPTIONAL)

*Chairmen: D. Russell, G.M. Von Reutern*

- 9.00-10.00    *WRITTEN EXAMINATION - Multiple choice-test*
- 10.00-12.00   *PRACTICAL EXAMINATION - "Hands on"*

# GENERAL INFORMATION

---

## OFFICIAL LANGUAGE

English (both for Course and examination).

## REGISTRATION

Registration forms must be filled in and sent to the Organizing Secretariat either by:

on-line registration:

on the website [www.avenuemedia.eu](http://www.avenuemedia.eu)  
(Congress Office)

or fax: +39 051 6564334

## REGISTRATION FEE

All-inclusive:

1000 Euros (includes room reservation, breakfast, lunch, dinner and coffee breaks for the entire duration of the course). Travel expenses are excluded.

Max number of Participants:

60 (first come first serve basis)

## FINAL EXAM

Optional. No additional fee is requested.

## PAYMENT

Upon receipt of a written confirmation that their registration has been accepted, participants shall pay their registration fee in full and within the date indicated in the letter.

If payment is not received by the due date, registration will be automatically cancelled and admission to this course will be denied.

## METHODS OF PAYMENT

The registration fees must be free of charges or bank commission. Please specify your surname and first name along with the Course name as reason of payment. Please send the receipt or copy of the payment to the Organizing Secretariat, otherwise the access to the Course will

not be allowed. Bring and show it also at the Reception Desk at your arrival to the Course.

Payment can be made choosing one of the following options:

- Bank cheque “non-negotiable” made out to Avenue Media

- Bank wire transfer

From Italy: Banca Popolare dell’Emilia Romagna, Bologna, Agenzia 7, current account made out to Avenue media s.r.l

IBAN Code: IT 15 V 05387 02406 000000437531

Outside Italy: IBAN Code: IT 15 V 05387 02406 000000437531

BIC Code: BPMOIT22XXX

SWIFT BPMOIT22XXX - current account no. 437531

- Credit card directly on the following website: [www.avenuemedia.eu](http://www.avenuemedia.eu) (Congress section) or fill in the section on the registration form

## CANCELLATIONS AND REFUNDS

Cancellations must be made in writing to the Organizing secretariat. No refunds will be made if the registration fee has already been paid.

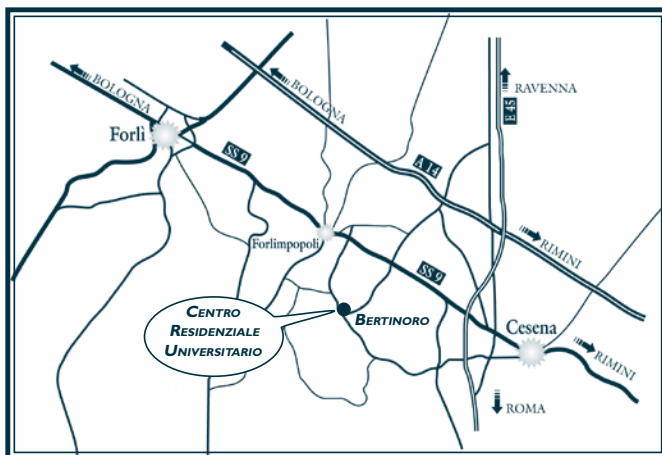


# Venue

## University Residential Center

Via Frangipane,6 - Bertinoro, Italy

[www.centrocongressibertinoro.it](http://www.centrocongressibertinoro.it)



### By Motorway:

Driving from Bologna or Rimini: get out from the motorway A 14 to the Cesena – Nord (Cesena – North) tollbooth and take the national road E 45 directed to Rome as far as the Cesena - Ovest (Cesena - West) exit. Turn right on the national road n. 9 "Via Emilia", towards Forlì – Bologna. Passing a small town called Capocolle, the way to Bertinoro begins right after the traffic light, on the left. The way from the Cesena tollbooth to Bertinoro takes about 12 Km. Click on the link [Autostrade \(Motorways\)](#) to get further information about distances and tolls.

### By train:

Bologna - Rimini line: if you catch Express, Eurostar or Inter-City trains you must get off at Forlì or Cesena stations. Afterwards, it is possible to take a taxi (+39 0543 31111) or a bus – Line 134

- to Bertinoro that is about 13 km far. Click on the link [Ferrovie dello Stato \(National Railways\)](#) for updated timetables.

### By Public Transportation:

From Forlì (Bus station next to the railway station) there are several daily connections to Bertinoro. Click on the link [Autobus pubblici \(public buses\)](#) to get further information.

### By Plane:

Aeroporto di Forlì (Forlì airport), that is about 5 Km far from the University Centre, is well connected with the main European capitals.

Aeroporto di Bologna (Bologna airport), that is about 80 Km far from the University Centre, is an important international airport.

## ORGANIZING SECRETARIAT



Via Riva Reno 61 - 40122 Bologna - Italy  
Tel. +39 051 6564300 - Fax + 39 051 6564334  
E-mail: [congressi@avenuedia.eu](mailto:congressi@avenuedia.eu)  
Web site: [www.avenuedia.eu](http://www.avenuedia.eu)



SISTEMA QUALITÀ CERTIFICATO - UNI EN ISO 9001:2000 - SEZIONE CONGRESSI