Programme Committee

M. G. Hennerici, Germany, Chair
K. Spengos, Greece, Secretary
J.P. Mohr, USA
V. Hoemberg, Germany
P.-J. Touboul, France
G. del Zoppo, USA
M. R. Hennerici, Germany

Executive Committee 2016

K. Fassbender, Germany
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P.N. Renjen, India
S. Sallustio, Italy
A. Schwartz, Germany
A.P. Sigurdsson, Iceland
K. Szabo, Germany
R. Venketasubramanian, Singapore

ESC Faculty 2016

A. Alonso, Germany
J. Anrather, USA
J. Aronowski, USA
M. Ashina, Denmark
I. Awad, USA
S. Aybeck, Switzerland
D. Baldassare, Italy
J.-C. Baron, France
J. Bogousslavsky, Switzerland
J. Boltze, Germany
E. Carrera, Switzerland
A. Charidimou, UK
A. Chatzikostantinou, Germany
G.H. Chen, USA
J. Claassen, USA
S. Clarke, Switzerland
L. Cohen, USA
S. Cohen, France
T. Dalkara, Turkey
G. del Zoppo, USA
A. Dörlfer, Germany
J. Dreier, Germany
M. Elkind, USA
N. Etminan, Germany
K. Fassbender, Germany
G. Fortwengel, Germany
N. Futrell, USA
C. Gardiner, UK
P.J. Goadsby, UK
W. A. Gray, USA
M. Griebe, Germany
A. Grund, Germany
A.B. Guekht, Russian Federation
A. Halliday, UK
E. Hamel, Canada
A. Harloff, Germany
M. Haude, Germany
W.D. Heiss, Germany
S. Hendrix, USA
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M.G. Hennerici, Germany
I. Henriques, Portugal
R. Herbert, UK
V. Hömberg, Germany
K. Horsburgh, UK
E. Houdart, France
S. Hussain, USA
A. Joutel, France
R.N. Kalaria, UK
H. Kamel, USA
M. Katan, Switzerland
R. Kern, Germany
J.S. Kim, South Korea
D. Kömpf, Germany
P.-J. Touboul, France
G. del Zoppo, USA
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A. Schwartz, Germany
A.P. Sigurdsson, Iceland
K. Szabo, Germany
R. Venketasubramanian, Singapore

25. European Stroke Conference
**European Stroke Research Foundation - esrf**

**Board Members**
- M.G. Hennerici, Germany
- M.R. Hennerici, Germany
- J. Bogousslavsky, Switzerland
- H.P. Lindenmann, Switzerland
- P. Roth, Switzerland

**Advisory Board**
- V. Hoemberg, Germany
- J.P. Mohr, USA
- K. Spengos, Greece
- P.J. Touboul, France
## Preliminary Program Overview

### Wednesday 13 April 2016

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ESC-EFNR Joint Symposium

New vistas on neurorehabilitation after stroke
Chairpersons: V. Hömberg, Germany and D. Muresanu, Romania

Restoration versus compensation: when to switch
V. Hömberg, Germany

What is needed for impairment oriented neurorehabilitation?
V. Hömberg, Germany

From molecules over circuits to connectomes
D. Muresanu, Romania

Contemporary neurosurgical management of cerebrovascular pathologies
Chairpersons: JP Mohr, USA and N. Etminan, Germany

Contemporary management of cavernomas
U. Sure, Germany

Contemporary management of AVMs
I. Awad, USA

Contemporary management of aneurysms
N. Etminan Germany

Contemporary management of parenchymatous hemorrhage
P. Stieg, USA
Opening of the 25th ESC
Room: Sala Del Cinema
Wednesday, April 13
10:00 – 10:30

Opening
Chairpersons: M.G. Hennerici, Germany and J.P. Mohr, USA

SYMPOSIUM 3
Room: Sala Del Cinema
Wednesday, April 13
10:30 – 12:30

ESC- ESC Joint Symposium
Update on the management of acute ischemic stroke patients - The future role of neurologists, neuroradiologists and cardiologists
Chairpersons: P. Lanzer, Germany and A. Schwartz, Germany

What is the impact of a stroke neurologist in the future management of acute ischemic stroke?
M.G. Hennerici, Germany

Update on endovascular treatment of acute ischemic stroke
S. Meckel, Germany

Transfer of interventional skills: real option or real error?
M. Haude, Germany

Could cardiologists treat stroke patients; and if yes, should they?
T. Lüscher, Switzerland

Towards stroke curriculum for interventionists
P. Lanzer, Germany

Round table discussion
Speakers and Chairpersons
The role of interventional cardiology in stroke prevention  

Chairperson: P. Lanzer, Germany

Overcoming your treatment inertia: moving to device over drug for stroke prevention in atrial fibrillation  
W. Gray, USA

The rebirth of PFO closure?  
M. Vavouranakis, Greece

Atrial cardiopathies as a cause of cryptogenic stroke: beyond atrial fibrillation  

Chairpersons: M. Elkind, USA and H. Kamel, USA

Cardiac monitoring for the detection of atrial fibrillation in patients with unexplained stroke  
R. Veltkamp, United Kingdom

Serum and structural biomarkers of atrial dysfunction and stroke risk  
M. Katan, Switzerland

Electrophysiologic measures of atrial dysfunction and stroke risk  
H. Kamel, USA

Therapeutic implications of the concept of atrial cardiopathy  
M. Elkind, USA
TEACHING COURSE 1
Room: Sala delle feste
Wednesday, April 13
13:30 – 15:00

Posterior circulation stroke
Chairpersons: J.S. Kim, South Korea and R. Kern, Germany

Brainstem stroke patterns – an update
J. S. Kim, South Korea

Oculomotor presentations of brainstem ischemia
D. Kömpf, Germany

Imaging posterior circulation strokes
R. Kern, Germany

Treatment concepts of basilar artery occlusion
K. Szabo, Germany

HIGHLIGHTS SESSION 1
Room: Sala Casino
Wednesday, April 13
13:30 – 15:00

Chairperson: M. G. Hennerici
Multimodality imaging in the angiography suite: no more delays!
Chairpersons: C. Strother, USA and JP Mohr, USA

Technology enabling multimodality imaging in the angiography suite
G. Chen, USA

Rationale and feasibility of multimodality imaging in the angiography suite. How this adds value.
A. Dörfler, Germany

The Erlangen experience with multimodality imaging in the angiography suite.
T. Struffert, Germany

Capabilities of multi-modality imaging using cone-beam CT.
P. Yang, China

Management of intracranial arteriopathies
Chairpersons: A. Schwartz, Germany and Y. Shinohara, Japan

Moyamoya
S. Okazaki , Japan

Intracranial atherosclerosis
J.S. Kim, South Korea

Dilatative arteriopathy
A. Schwartz, Germany

Ruptured aneurysms
N. Etminan, Germany
SYMPOSIUM 6
Room: Sala Casino
Wednesday, April 13
15:00 – 16:30
ESC-NEUROREPAIR 2016 Joint Symposium
Towards a new understanding of the link between neurodegeneration and vascular
disease
Chairpersons: S. Meairs, Germany and J. Boltze, Germany

Common mechanisms in Alzheimer’s and cerebrovascular diseases
K. Horsburgh, United Kingdom

Unexpected interactions between stem cell and pharmaceutical therapies of stroke
J. Boltze, Germany

Cerebrovascular disease and cognitive failure
E. Hamel, Canada

Hypertension management: an update 2016
A. Zanchetti, Italy

SYMPOSIUM 7
Room: Sala Del Cinema
Wednesday, April 13
17:00 – 18:30
Modern neuroimaging
Chairpersons: A. Schwartz, Germany and A. Harloff, Germany

4D-CTA in neurovascular disease
A. Meijer, The Netherlands

4D flow MRI – assessment of cervical and cerebrovascular hemodynamics
M. Markl, USA

Handling of MRI raw data – how can we obtain clinical information quickly?
A. Hennemuth, Germany

Venous cerebral blood flow – analysis by 4D MRI
A. Harloff, Germany

Perspectives for the future – where will we go?
M. Markl, USA
TEACHING COURSE 3
Sala delle feste
Wednesday, April 13
17:00 – 18:30

Stroke and Neuro-ICU care
Chairpersons: P. N. Varelas, USA and M. T. Torbey, USA

Ischemic stroke and neuro-ICU care
M. T. Torbey, USA

Intracerebral hemorrhage and Neuro-ICU care
P. N. Varelas, USA

Subarachnoid hemorrhage and Neuro-ICU care
J. Claassen, USA

SYMPOSIUM 8
Room: Sala Casino
Wednesday, April 13
17:00 – 18:30

Cognitive impairment after ischemic stroke
Chairpersons: W. D. Heiss, Germany and A. B. Guekht, Russian Federation

Cognitive impairment and chronic cerebral hypoperfusion.
R. Schmidt, Austria

Ischemic brain infarcts, white matter lesions, and atrophy relevant for poststroke dementia
S. Melkas, Finland

Clinical determinants of poststroke cognitive impairment
V. Mok, Hong Kong

Imaging pathophysiologic changes in post-stroke dementia
W. D. Heiss, Germany and A. Thiel, Canada

Therapeutic interventions for prevention of post-stroke dementia
A. B. Guekht, Russian Federation
INVITED LECTURE
Room: Sala Del Cinema
Wednesday, April 13
18:30-19:00

Venice and the arts
Chairpersons: M.G. Hennerici Germany and K. Spengos, Greece

Venice and the arts
J. Rosand, USA
## THURSDAY 14 APRIL 2016

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<td>Palliative stroke care</td>
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<td>New concepts in stroke science</td>
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<td>Experts' Roundtable</td>
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<td>15:00 - 16:30</td>
<td>Oral Session</td>
<td>Stroke and the arts</td>
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<td>17:00 - 18:30</td>
<td>Symposium 13</td>
<td>ESC-EHF: stroke &amp; headache</td>
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<td>17:00 - 18:30</td>
<td>Teaching course 8</td>
<td>Neuroradiology quiz</td>
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### 10:30 - 11:00 Coffee Break

### 12:30 - 13:30 Lunch Break

### 16:30 - 17:00 Coffee Break

### 25. European Stroke Conference
STROKE NEWS 1
Room: Sala delle feste
Thursday, April 14
8:00 – 9:00

New concepts in stroke science
Chairperson: J. C. Baron, France

- The molecular mechanisms of small vessel disease: the example of CADASIL
  A. Joutel, France

- Disconnection and diaschisis: clinical implications
  E. Carrera, Switzerland

STROKE NEWS 2
Room: Sala Casino
Thursday, April 14
8:00 – 9:00

Palliative aspects in stroke care
Chairperson: K. Szabo, Germany

- End-of-life care in stroke units
  C. Gardiner, United Kingdom

- Advance directives in acute stroke
  A. Alonso, Germany
EXPERTS’ ROUNDTABLE
Room: Sala Perla
Thursday, April 14
9:00 – 10:30

Update on carotid disease
Chairpersons: P.-J. Touboul, France and M. Roffi, Switzerland

- Ultrasound plaque analysis: contribution of image analysis
  P.J. Touboul, France
- CEA – Surgery and best medical treatment
  A. Halliday, United Kingdom
- CAS – State of the art
  M. Roffi, Switzerland
- CAS specific indications: ICA dissection and diaphragm
  E. Houdart, France
- CAS by non-neurointerventionalists can provide many of the requisite cognitive assets to allow alternate specialties to contribute to acute stroke manpower needs
  W. A. Gray, USA

TEACHING COURSE 4
Room: Sala delle feste
Thursday, April 14
9:00 – 10:30

Update on ICH management
Chairpersons: JP Mohr, USA and I. Awad, USA

- Cerebral cavernous malformations: from clinical riddle to mechanistic therapies.
  I. Awad, USA
- AVMs
  JP Mohr, USA
- Surgical management of primary ICH
  V. Rhode, Germany
- Management of NOAC associated bleedings
  T. Rizos, Germany
SYMPOSIUM 9
Room: Sala Casino
Thursday, April 14
9:00 – 10:30

Cerebral Amyloid Angiopathy (CAA): mechanisms, features and clinical relevance
Chairman: J.-C. Baron, France

Sporadic CAA: pathophysiology and main clinical and radiological features
R.N. Kalaria, United Kingdom

Lobar microbleeds: clinical implications for ischemic and hemorrhagic stroke
R. Veltkamp, United Kingdom

Dilated peri-vascular spaces and CAA
A. Charidimou, USA

Amyloid PET imaging in CAA
J.-C. Baron, France

PLENARY LECTURE
Room: Sala Perla
Thursday, April 14
11:00 – 12:00

Plenary Lecture
Chairpersons: M.G. Hennerici, Germany and P.-J. Touboul, Franc

Relationships between cellular inflammation and the microvasculature
G. del Zoppo, USA
TEACHING COURSE 5
Room: Sala delle feste
Thursday, April 14
11:00 – 12:30

Stroke rehabilitation
Chairperson: L. Cohen, USA

Rehabilitation of language after stroke
F. Pulvermüller, Germany

Non invasive brain stimulation techniques
L. Cohen USA

Neglect: mechanisms, diagnostics and therapeutics
S. Clarke, Switzerland

Mechanisms of stroke recovery and restorative stroke therapeutics
N. Ward, United Kingdom

SYMPOSIUM 10
Room: Sala Casino
Thursday, April 14
11:00 – 12:30

The human connectome and post-stroke recovery
Chairpersons: A. Thiel, Canada and K. McAleese, United Kingdom

Structural and resting-state brain connectivity of motor networks after stroke
A. Thiel, Canada

The neuropathology of connectome disruption: lessons from post-mortem MRI
K. McAleese, United Kingdom

Lesion-Symptom mapping of connectome disruption in post-stroke aphasia
A. Stockert, Germany

Exploring the connectome without diffusion tensor imaging: from research to clinical application in stroke
A. Kuceyeski, USA
LUNCH SYMPOSIUM
Sala Perla – Room 2
Thursday, April 14
13:30 – 15:00

TEACHING COURSE 6
Room: Sala delle feste
Thursday, April 14
13:30 – 15:00

Microcirculation
Chairpersons: I. Lestro Henriques, Portugal and L. Ostergaard, Denmark

Microcirculation biomarkers
L. Ostergaard, Denmark

MRI heterogeneity inside ischemic lesion
I. Lestro Henriques, Portugal

Susceptibility genes to ischemic injury
J. Rosand, USA

Therapies targeted towards the microcirculation
T. Dalkara, Turkey
HIGHLIGHTS SESSION 2
Room: Sala Casino
Thursday, April 14
13:30 – 15:00

HIGHLIGHTS 2
Chairperson: JP Mohr, USA

SYMPOSIUM 11
Room: Sala Perla
Thursday, April 14
15:00 – 16:30

Stroke and seizures
Chairpersons: P.N. Varelas, USA and J. Claassen, USA

Ischemic stroke and seizures: how common?
P. N. Varelas, USA

Pathophysiologic lessons from multimodality monitoring in patients with seizures following hemorrhagic stroke.
J. Claassen, USA

Electric phenomena after stroke: is it only seizures? The role of spreading neocortical depolarizations
J. P. Dreier, Germany

Is aphasia due to the infarct or due to an epileptic phenomenon?
A. Chatzikonstantinou, Germany
TEACHING COURSE 7
Room: Sala delle feste
Thursday, April 14
15:00 – 16:30

Neuropsychological and mood disorders in stroke
Chairpersons: K. Szabo, Germany and W.K. Tang, Hong Kong

Post-stroke language disorders
R. Herbert, United Kingdom

Right hemisphere syndromes in acute stroke
P. Krolak-Salmon, France

Vascular factors in post-stroke depression
W.K. Tang, Hong Kong

Post-stroke cognitive disorders
M. Griebe, Germany

SYMPOSIUM 12
Room: Sala Casino
Thursday, April 14
15:00 – 16:30

The prehospital stroke rescue chain: how can we improve it?
Chairpersons: K. Fassbender, Germany and S. Levine, USA

Why do stroke patients seek help too late? Do educational campaigns help?
S. Levine, USA

How to recognize stroke: stroke scales and training
A. Ragoschke-Schumm, Germany

Prenotification: the key to accelerating in-hospital stroke management
T. Lindner, Norway

The hospital comes to the patient: pros and cons of mobile stroke units
S. Hussain, USA
ESC-EHF (European Headache Federation) Joint Symposium
The cerebrovascular component of migraine
Chairpersons: D.D. Mitsikostas, Greece and P. Martelletti, Italy

Advances in understanding the pathophysiology of migraine
P.J. Goadsby, United Kingdom

PFO and migraine
J. Bogousslavsky, Switzerland and B. Piechowski-Jozwiak, Poland

Is migraine a progressive condition with brain vascular damage?
A. May, Germany

Migrainous stroke
M. Ashina, Denmark

TEACHING COURSE 8
Room: Sala delle feste
Thursday, April 14
17:00 – 18:30

Neuroimaging in the acute ischemic stroke patient – Quiz of challenging CT/MRI findings - Overview and examples discussed with the audience
Chairpersons: A. Schwartz, Germany and A. Harloff, Germany

Advantages and pitfalls of CT/CTA imaging
A. Harloff, Germany

Advantages and pitfalls of MR/MRA imaging
A. Schwartz, Germany
Cerebrovascular Diseases - ESRF Joint Symposium

New requirements for clinical trials in Europe

Chairpersons: G. Fortwengel, Germany and H. von der Leyen, Germany

Requirements for clinical trials in Europe get global a crucial step to a better future?
G. Fortwengel, Germany

History, development and essential changes for clinical trials in Europe
H. von der Leyen, Germany

EU 536/14 – what remains to be regulated on a national level
U. Wittkop, Germany

Implications for investigators in IITs
A. Grund, Germany
## FRIDAY 15 APRIL 2016

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THEORETICAL SEMINAR
Room: Sala Perla
Friday, April 15
8:00 – 9:00

Outcomes following thrombolysis in acute stroke are underestimated by standard clinical scoring tools
Chairperson: N. Futrell, USA

Clinical scales used in stroke trials: problems with validity of pretreatment stroke scales to outcome scales
N. Futrell, USA

Statistical approaches to clinical trials in stroke: strengths and weaknesses
S. Hendrix, USA

STROKE NEWS 3
Room: Sala delle Feste
Friday, April 15
8:00 – 9:00

PMN leukocytes and cerebral injury development
Chairperson: G. del Zoppo, USA

Roles that PMN leukocytes play in tissue injury following intracerebral hemorrhage
J. Aronowski, USA

Innate inflammation during focal cerebral ischemia
J. Anrather, USA
Brain recovery: predictors and innovative therapy approaches  
*Chairperson: V. Hömberg, Germany*

- Bdnf polymorphism and rTMS effects on motor recovery  
  L. Cohen, USA
- Neurological music therapy affecting restoration and compensation  
  M. Thaut, USA

CLINICAL SEMINAR  
Room: Sala Perla  
Friday, April 15  
9:00 – 10:30

Functional stroke mimics  
*Chairpersons: J. Bogousslavsky, Switzerland and M. G. Hennerici, Germany*

- Brief historical perspective  
  J. Bogousslavsky, Switzerland
- Examination of functional hemiplegia and other syndromes  
  Th. Moulin, France and E. Medeiros de Bustos, France
- Neuropsychiatry of “conversion”  
  B. Piechowski-Jozwiak, Poland
- Pathophysiological update using fMRI  
  S. Aybeck, Switzerland
SYMPOSIUM 15
Room: Sala delle feste
Friday, April 15
9:00 – 10:30

“Watching the risk symposium 2016“:
Intima media thickness and carotid plaque in primary prevention
Chairpersons: P.-J. Touboul, France and M. G. Hennerici, Germany

Plaque upper limit cut off to characterize carotid disease: do we need it?
T. Rundek, USA

CAC score and carotid total plaque area: personalized medicine to predict CVD
D. Baldassarre, Italy

Plaque vascularization, a risk factor for rupture?
P.J. Touboul, France

What should be the asymptomatic patient report according to examination findings
S. Cohen, France

HIGHLIGHTS SESSION
Room: Sala Casino
Friday, April 14
9:00 – 10:30

HIGHLIGHTS 3
Chairperson: P.-J. Touboul, France
Complementary and alternative treatments for stroke
Chairperson: N. Venketasubramanian, Singapore

Acupuncture, moxibustion, cupping
B. Wu, China

Herbs, ayurveda, massage
N. Venketasubramanian, Singapore

From preclinical research to translation: stem cell therapy of stroke
G. Steinberg, USA
Chairpersons: S. Meairs, Germany and JP Mohr, USA
AWARDS

AWARD PRESENTATIONS
Room: Sala Perla
Friday, April 15
12:00-12:30

Chairpersons:
M.G. Hennerici, M.R. Hennerici, Germany and H.P. Lindenmann, Switzerland