

# FIFTH ANNUAL WORLD COURSE IN ADVANCED TECHNIQUES IN NEUROSURGICAL ONCOLOGY

FOR NEUROSURGEONS AND RESIDENTS

30 CME  
POINTS

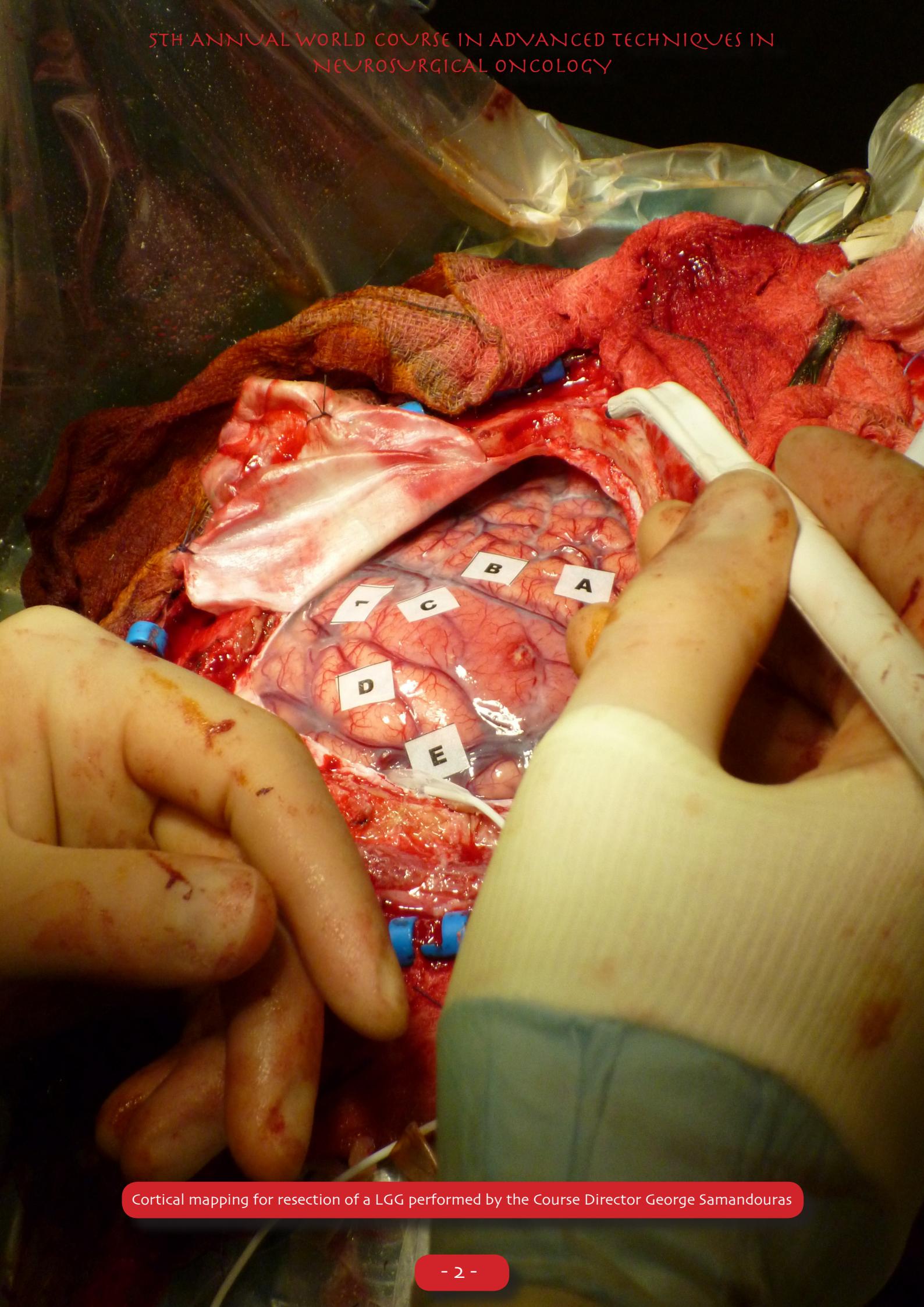


WEDNESDAY JUNE 22 - SUNDAY JUNE 26, 2016

WELLCOME COLLECTION - WELLCOME TRUST

LONDON, UK

5TH ANNUAL WORLD COURSE IN ADVANCED TECHNIQUES IN  
NEUROSURGICAL ONCOLOGY



Cortical mapping for resection of a LGG performed by the Course Director George Samandouras

# 5TH ANNUAL WORLD COURSE IN ADVANCED TECHNIQUES IN NEUROSURGICAL ONCOLOGY

W E D N E S D A Y   2 2   J U N E   2 0 1 6

Time	Speaker/Topic	Venue
7:45-8:00	Registration and Coffee	HWA
8:00-8:15	Introduction to the Course GEORGE SAMANDOURAS, UK	HWA
8:15-9:00	Overview of the surgical anatomy of brain architecture GUILHERME RIBAS, BRAZIL	HWA
9:00-10:00	Anatomy of the cortical sulci and gyri GUILHERME RIBAS, BRAZIL	HWA
10:00-11:00	Opercular, temporo-mesial and sub-insular surgical anatomy Guilherme Ribas, BRAZIL	HWA
11:00-11:30	Coffee Break	WL
11:30-12:30	The temporal lobe, insula and the Sylvian fissure <small>(Catani et al., Cortex 2012)</small> ANTONIO BERNARDO, USA	HWA
12:30-13:30	Surgical anatomy of the lateral, third, and fourth ventricles ANTONIO BERNARDO, USA	HWA
13:30-14:30	Sit-down 3-course hot buffet lunch	BRH
14:30-15:30	Applied microneurosurgical anatomy of white matter tracts JUAN MARTINO, SPAIN	HWA
15:30-16:30	Applied microneurosurgical anatomy of insular gliomas JUAN MARTINO, SPAIN	HWA
16:30-17:30	Coffee Break	
17:30-18:30	Microneurosurgery of lobal and gyral lesions GUILHERME RIBAS, BRAZIL	HWA
18:30-19:00	Anatomical corridors to deeply-seated intrinsic lesions GUILHERME RIBAS, BRAZIL	HWA
	Free evening	

I N T E R A C T I V E   3 D   A N A T O M Y   S H O W S

HWA, Henry Wellcome Auditorium; WL, Williams Lounge; BRH, Blue Radisson Hotel

5TH ANNUAL WORLD COURSE IN ADVANCED TECHNIQUES IN  
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Live surgery from San Francisco, USA, at the cinema screen of Wellcome Collection, London

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THURSDAY 23 JUNE 2016

Time	Speaker/Topic	Venue
7:15-7:30	Introduction to Live Surgery GEORGE SAMANDOURAS, UK	HWA
7:30-10:00	LIVE SURGERY  Awake craniotomy for motor pathway tumour  LORENZO BELLO MILAN, ITALY	HWA
10:00-12:00	LIVE SURGERY  Fluorescent-guided awake craniotomy for high grade glioma  WALTER STUMMER MUNSTER, GERMANY	HWA
12:00-12:30	Coffee Break	WL
12:30-14:30	LIVE SURGERY  Endoscopic resection of glioma  CHARLES THEO SYDNEY, AUSTRALIA	HWA
14:30-15:30	Sit-down 3-course hot buffet lunch	BRH
15:30-18:30	LIVE SURGERY  Awake craniotomy with cortical mapping  MITCHEL BERGER, SAN FRANCISCO, USA	HWA
20:00-23:00	Drinks and canapes reception	

LIVE SURGERY FROM FOUR COUNTRIES

HWA, Henry Wellcome Auditorium; WL, Williams Lounge; BRH, Blue Radisson Hotel



Professor Ribas running a hands-on workshop on surgical topographic skull anatomy

# 5TH ANNUAL WORLD COURSE IN ADVANCED TECHNIQUES IN NEUROSURGICAL ONCOLOGY

F R I D A Y   2 4   J U N E   2 0 1 6

Time	Speaker/Topic	Venue
7:15-7:45	Coffee	WL
7:45-8:00	Introduction to hands-on Workshops GEORGE SAMANDOURAS, UK	HWA
8:00-9:00	Group Rotation 1	HWA
9:00-10:00	Group Rotation 2	HWA
10:00-11:00	Group Rotation 3	HWA
11:00-11:30	Coffee Break	WL
11:30-12:30	Group Rotation 4	HWA
12:30-13:30	Group Rotation 5	HWA
13:30-14:30	Sit-down 3-course hot buffet lunch	BRH
14:30-15:30	DT Imaging anatomy of white matter tracts MARCO CATANI, UK	HWA
15:30-16:30	fMRI applications in language mapping CATHY PRICE, UK	HWA
16:30-17:30	PET Imaging techniques in gliomas ARTURO CHITI, ITALY	HWA
17:30-18:30	Neurophysiology Imaging ANDREA SZELENYIL, GERMANY	HWA
20:00-23:00	Drinks and canapes	

HANDS-ON WORKSHOPS

ADVANCED IMAGING

GROUP 1

TOPOGRAPHIC SKULL ANATOMY  
G RIBAS, BRAZIL

GROUP 2

STIMULATORS AND IO NEURPHYSIOLOGY  
A SZELENYI, GER  
L BELLO, ITA

GROUP 3

DTI ANATOMY (BRING YOUR LAPTOP, FREE SOFTWARE!)  
M CATANI, UK

GROUP 4

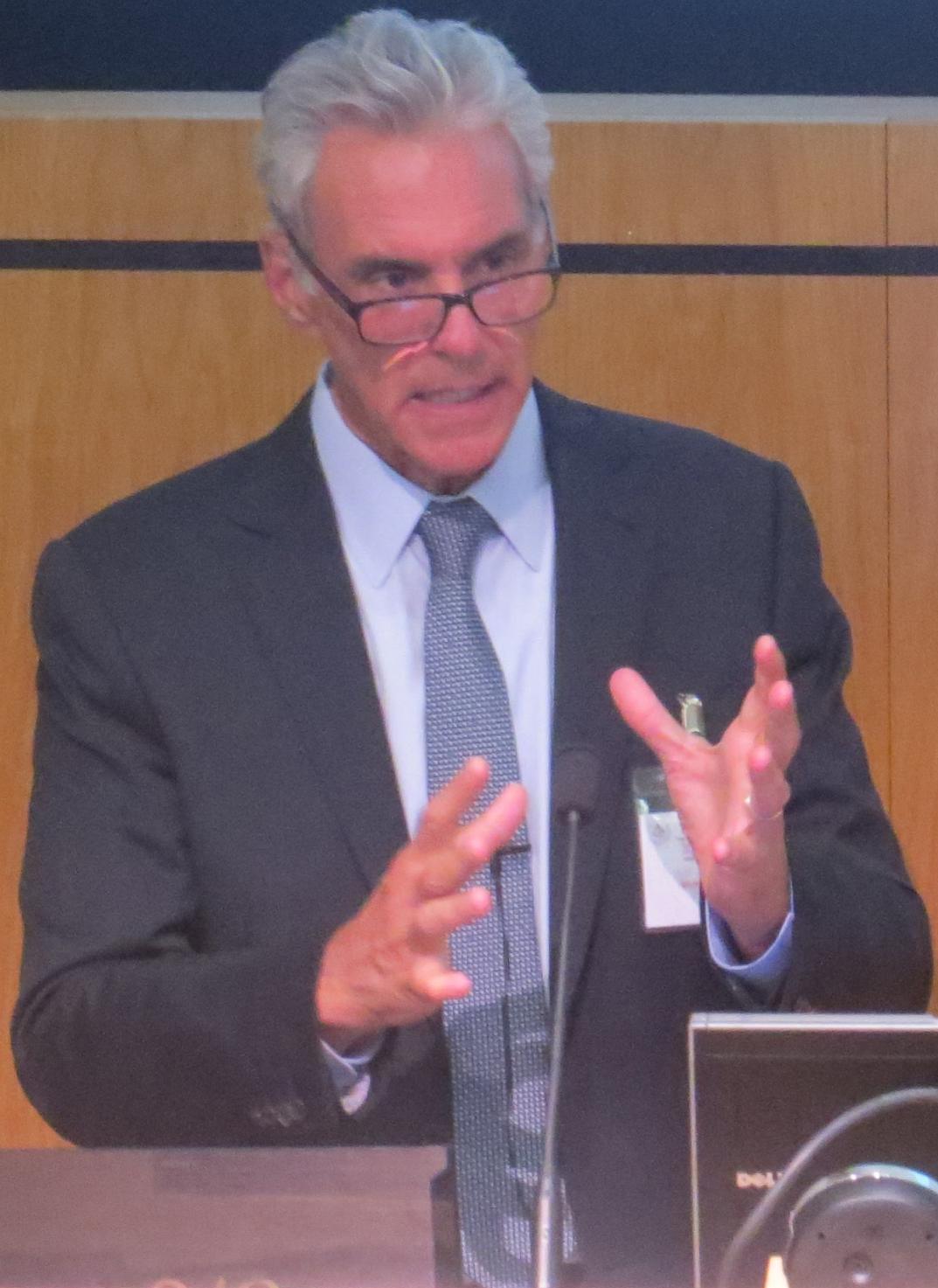
ULTRASONIC ASPIRATORS  
M SOBEL, GERMANY

GROUP 5

FIBERS AT RISK - 3D ROADMAP OF FIBER TRACTS  
A BERNARDO, USA

HWA, Henry Wellcome Auditorium; WL, Williams Lounge; BRH, Blue Radisson Hotel

5TH ANNUAL WORLD COURSE IN ADVANCED TECHNIQUES IN  
NEUROSURGICAL ONCOLOGY



Professor Berger during his Master's Seminar at the Henry Wellcome auditorium, London

# 5TH ANNUAL WORLD COURSE IN ADVANCED TECHNIQUES IN NEUROSURGICAL ONCOLOGY

S A T U R D A Y   2 5   J U N E   2 0 1 6

Time	Speaker/Topic	Venue
7:30-8:00	Coffee	HWA
8:00-8:40	How I do awake craniotomies for LGGs MITCHEL BERGER, USA	HWA
8:40-8:50	Discussion	
8:50-9:30	My techniques in surgery for LGGs HUGUES DUFFAU, FRANCE	HWA
9:30-9:40	Discussion	
9:40-10:20	My techniques in surgery for motor pathway gliomas LORENZO BELLO, ITALY	HWA
10:20-10:30	Discussion	
10:30-11:00	Coffee Break	WL
11:00-11:40	My techniques using 5-ALA for high grade gliomas WALTER STUMMER, GERMANY	
11:40-11:50	Discussion	
11:50-12:30	My techniques in awake craniotomies in intraoperative MRI with trimodality monitoring GEORGE SAMANDOURAS, UK	HWA
12:30-12:40	Discussion	
12:40-13:20	My endoscopic techniques in glioma surgery CHARLES TEO, AUSTRALIA	HWA
13:20-13:30	Disucssion	
13:20-14:30	Sit-down 3- course hot buffet lunch	BRH
14:30-15:30	Review of the most important papers and research activities in neurooncology during the last 12 months MICHAEL PLATTEN, GERMANY	HWA
15:30-16:30	Meet the authors - PART I Live discussion via video links with the authors of the most recent and influential papers in neuro-oncology	HWA
16:30-17:30	Coffee Break	
17:30-18:30	Meet the authors - PART II Live discussion via video links with the authors of the most recent and influential papers in neuro-oncology	HWA
20:00-23:00	Formal dinner with the Faculty	

HWA, Henry Wellcome Auditorium; WL, Williams Lounge; BRH, Blue Radisson Hotel

T H E M A S T E R S ' S E M I N A R S

M E E T T H E A U T H O R S

5TH ANNUAL WORLD COURSE IN ADVANCED TECHNIQUES IN  
NEUROSURGICAL ONCOLOGY



Discussion of challenging cases from the Masters and debates on optimal management

5TH ANNUAL WORLD COURSE IN ADVANCED TECHNIQUES IN  
NEUROSURGICAL ONCOLOGY

S U N D A Y 2 6 J U N E 2 0 1 6

B I O L O G Y - R O U N D T A B L E S - D E B A T E S

Time	Speaker/Topic	Venue
7:30-8:00	Coffee	HWA
8:00-8:50	New insights into the brain plasticity HUGUES DUFFAU, FRANCE	WL
8:50-9:00	Discussion	
9:00-9:50	Basic research and clinical trials in neurooncology ROGER STUPP, SWITZERLAND	HWA
9:50-10:00	Discussion	
10:00-10:50	Brain tumour immunology and immunotherapy MICHAEL PLATTEN, GERMANY	HWA
10:50-11:00	Discussion	
11:00-11:30	Coffee break	HWA
11:30-12:20	Pathogenesis and molecular mechanisms in gliomas SEBASTIAN BRANDNER, UK	HWA
12:20-12:30	Discussion	
12:30-13:20	Novel molecular markers and the 2016 WHO Classification of Gliomas	HWA
13:20-13:30	ANDREAS VON DIEMLING, GERMANY	
13:20-13:30	Discussion	
13:30-14:30	Lunch	BRH
14:30-15:00	The Annual Charity Lecture The impact of brain tumours on society SARAH LINDSELL, UK	
15:00-15:30	Ask the Masters™ Case discussion of challenging cases pre-sented by delegates	HWA
15:30-16:00	Round Table What I have learned from my complications M. BERGER - L. BELLO - C. TEO A. MCEVOY - J. REES - R. STUPP G. SAMANDOURAS	HWA
16:00-17:00	The future of surgical neuro-oncology MITCHEL BERGER, USA	HWA
17:00-17:15	Final Remarks - End of Course	

HWA, Henry Wellcome Auditorium; WL, Williams Lounge; BRH, Blue Radisson Hotel

# 5TH ANNUAL WORLD COURSE IN ADVANCED TECHNIQUES IN NEUROSURGICAL ONCOLOGY

## CLASS FEEDBACK

"I COULD NOT HAVE IMAGINED A BETTER COURSE. I AM **IMRESSED BEYOND ANYTHING** I CAN EXPRESS"  
THE NETHRELANDS

"IT WAS UNDOUBTEDLY A TREMENDOUS AMOUNT OF WORK PUTTING TOGETHER THE **BEST CONFERENCE** I HAVE EVER ATTENDED" USA

"THE COURSE, THE CONTENT, THE VENUE AND THE COMMUNITY ATMOSPHERE YOU CREATED, ALL VERY SPECIAL.  
**AN EXCEPTIONAL COURSE**"  
USA

"I AM VERY GLAD TO HAVE ATTENDED THIS OUTSTANDING AND VERY INFORMATIVE COURSE. IT WAS **TRULY UNMISSABLE**"  
GERMANY

"AN UNBEATABLE ASSEMBLY OF THE **SUPERSTARS** OF NEURO-ONCOLOGY"  
GERMANY

"YOU ORGANISED AN OUTSTANDING COURSE OF SUPERIOR QUALITY. I HAVE **BECOME INSPIRED** TO IMPROVE MY PATIENT CARE AND TECHNIQUES"  
THE NETHRELANDS

"I HAVE ATTENDED MANY COURSES, MEETINGS AND WORKSHOPS BUT I HAVE NEVER CAME OUT WITH **SO MUCH GRATIFICATION!** A SIMPLE "THANK YOU" WILL NOT DO!"  
SAUDI ARABIA

"IT WAS AN AMAZING EXPERIENCE TO SEE **ALL PIONEERS** UNDER ONE ROOF"  
BRAZIL

Exterior view of the Wellcome Collection Building, on Euston Road, Venue of 2016 Course

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## VENUE OF THE COURSE

The **WELLCOME COLLECTION** is a stunning medical Museum and Library, both parts of the **WELLCOME TRUST**. The Wellcome Trust was established under Sir Henry's will in 1936, and is now the **WORLD'S LARGEST** independent charitable foundation funding research into human health.

Wellcome Collection is the free visitor **DESTINATION FOR THE INCURABLY CURIOUS**. It explores the connections between medicine, life and art in the past, present and future. The venue offers visitors contemporary and historic exhibitions and collections, lively public events, the world-renowned Wellcome Library, a café, a shop as well as publications, tours, a book prize, international and digital projects.

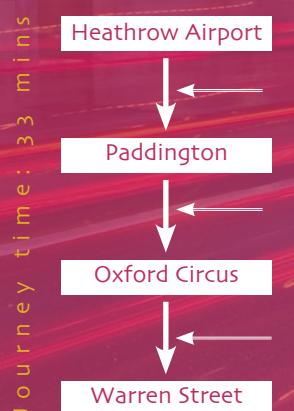
It is located in central London, **183 EUSTON RD, NW1 2BE, LONDON** and is close to both St Pancras' and King's Cross train stations. Website [www.wellcomecollection.org](http://www.wellcomecollection.org)

## TRAVEL IN LONDON

London has excellent public transport services.

- Most people living in London prefer to use the underground system called "the tube". The two closest tube stations are Warren Street and Euston Square.
- Taxis are usually easy to find in London but rather expensive.

Below are fast ways to get from Heathrow and Gatwick airports to the course venue.



## VISA INFORMATION

For VISA information please visit [www.ukba.homeoffice.gov.uk/visas-immigration](http://www.ukba.homeoffice.gov.uk/visas-immigration)  
If you need an invitation letter please email us at [neurosurgery.courses@gmail.com](mailto:neurosurgery.courses@gmail.com)

5TH ANNUAL WORLD COURSE IN ADVANCED TECHNIQUES IN  
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Formal dinner with the Faculty at The Royal Horseguard Hotel, London, on Saturday 11 July 2015

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## S O C I A L   E V E N T S

ALL INCLUDED IN THE REGISTRATION FEE!

**Thursday 23 June 2016**

Reception with drinks and food at a traditional British Pub in central London

On the left, the "Old Bank of England" pub, on Fleet Street, next to High Court.

The 2015 Reception took place here on 9 July with beers, pies, and traditional English fish and chips

For more info about the 2016 venues please check the course website [www.neurosurgery-courses.com](http://www.neurosurgery-courses.com)



**Friday 24 June 2016**

Drinks and canapes at a modern bar in Central London

On the left, the "Plateau" restaurant and bar, London's financial district Canary Wharf.

The 2015 Reception took place here on 10 July with wine, spirits, and canapes.

For more info about the 2016 venues please check the course website [www.neurosurgery-courses.com](http://www.neurosurgery-courses.com)



**Saturday 25 June 2016**

Formal Dinner (Black tie) with the Faculty

On the left, the "Royal Horseguard Hotel" a five star hotel in embankment by the river Thames.

The 2015 Formal dinner took place here on 11 July with a champagne reception and a course dinner with live music.

For more info about the 2016 venues: [www.neurosurgery-courses.com](http://www.neurosurgery-courses.com)



# 5TH ANNUAL WORLD COURSE IN ADVANCED TECHNIQUES IN NEUROSURGICAL ONCOLOGY

## REGISTRATION

30 CME  
POINTS

AWARDED WITH UP TO 30 CME POINTS FROM THE ROYAL COLLEGE OF SURGEONS OF ENGLAND

ONLINE REGISTRATION: [WWW.NEUROSURGERY-COURSES.COM](http://WWW.NEUROSURGERY-COURSES.COM)

QUALIFIED NEUROSURGEONS

£1090  
(LESS THAN £220/DAY!)

RESIDENTS-FELLOWS

£890  
(LESS THAN £180/DAY!)

### REGISTRATION FEES INCLUDE:

- PARTICIPATION TO ALL COURSE ACTIVITIES FOR 5 DAYS
- ACCESS TO FREE ONLINE MATERIAL
- COMPLIMENTARY BAG
- COFFEE AND COOKIES DAILY
- DAILY 3-COURSE HOT LUNCH
- TICKET TO RECEPTION ON THURSDAY 23 JUNE
- TICKET TO DRINKS AND CANAPES ON FRIDAY 24 JUNE
- TICKET FOR THE FORMAL DINNER ON SATURDAY 25 JUNE

MORE INFO, [WWW.NEUROSURGERY-COURSES.COM](http://WWW.NEUROSURGERY-COURSES.COM)

The Henry Wellcome Auditorium on the Wellcome Collection during an interactive seminar

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## OTHER COURSE HIGHLIGHTS

Professor Berger giving away a signed copy of his recent book "Neurosurgery Knowledge Update" Thieme, 2015 to a lucky delegate.

Faculty members will give away copies of their books to delegates after a lucky draw in June 2016.



Dr Marco Catani will provide free DTI anatomy software to all delegates' laptops during the workshop of Friday 24 June 2016 (bring your laptop!)



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Exterior view of the iconic St. Pancras Renaissance Hotel, 5 minutes walk from the course venue

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## H O T E L S

**St. Pancras Renaissance Hotel London**  
Euston Road, London, NW1 2AR

0.5 miles to course venue

5\*  
An iconic hotel with impecable service

Website: <http://www.marriott.com/hotels/travel/lonpr-st-pancras-renaissance-hotel-london/>



**Pullman Kings Cross London**  
100 - 110 Euston Road, NW1 2AJ

0.4 miles to course venue

4\*  
A modern, stunning hotel

Website: <http://www.pullmanhotels.com/gb/hotel-5309-pullman-london-st-pancras/index.shtml>



**Premier Inn London St Pancras Hotel**  
88 Euston Road, London NW1 2RA

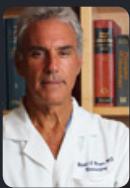
0.3 miles to course venue

3\*  
A new, modern hotel with budget rooms

Website: <http://www.premierinn.com/gb/en/hotels/england/greater-london/london/st-pancras.html>



## COURSE FACULTY



Professor **Mitchel S. Berger** is Chairman of the University of California, San Francisco's (UCSF) Department of Neurological Surgery and the Kathleen M. Plant Distinguished Professor. He also is the director of the Brain Tumor Research Center at UCSF. Dr Berger's research, articles and books have changed the practice of neuro-surgical oncology worldwide.



Professor **Hugues Duffau** is Chairman of the Department of Neurosurgery in Montpellier. Prof Duffau has pushed the limits of resection on LGGs to achieve "supracomplete" resections even in eloquent areas of the brain. His most recent book "Brain Mapping" explores insights of brain plasticity from cortical mapping and brain surgery.



Professor **Lorenzo Bello** leads the Brain mapping group and the Surgical Epilepsy group at the University of Milan, Italy. His surgical interests are intraoperative neurophysiology and image guided surgery. His research includes identification of molecular determinants of glioma angiogenesis and progression.



Professor **Walter Stummer** is the surgeon who introduced the use of Gliolan (5-ALA) in the resection of HGGs. He has published extensively and is running numerous national and international trials. He is Head of the Department of Neurosurgery at the University of Munsten, Germany.



Professor **Charlie Teo** is the Director of the Centre for Minimally Invasive Neurosurgery in Sydney, Australia and founder of the Cure Brain Cancer Foundation. He is the author of "Principles and Practice of Keyhole Brain Surgery" and has one of the world's largest surgical series of brainstem gliomas.



Professor **Guilherme Ribas** Sao Paulo, Brazil is an international authority in the cortical and subcortical anatomy of the brain. He is the first person who introduced the use of 3D images in brain anatomy. He is a sought after speaker in conferences and workshops around the world.



Professor **Antonio Bernardo**, is the Director, Microneurosurgery Skull Base Laboratory at Weill Cornell Brain and Spine Center, New York, USA. Dr Bernardo has been invited to direct over 150 surgical courses worldwide. He has received several medals from national and international neurosurgical federations



Professor **Michael Platten** is Head of the Department of Neuroimmunology at the German Cancer Research Center and the Immune Monitoring Unit. His clinical and research focus is on the development of novel immunotherapeutic approaches to gliomas.



Professor **Roger Stupp** is Chairman of the Department of Oncology and Cancer Center, University of Zürich. He has been the lead investigator for establishing the use of temozolamide in glioblastomas and determining the predictive value of MGMT gene-promoter methylation.



Professor **Andrea Szelenyi** is Head of Clinical and Intra-operative Neurophysiology at the Neurosurgical Clinic at the University Hospital Düsseldorf, Germany. She is the 2015-2017 President of the International Society for Intraoperative Neurophysiology.



Professor **Andreas von Diemling**, is the Head of CCU Neuropathology, German Cancer Center. He was the first to describe the allelic losses on 19q in oligodendrogiomas, the IDH1 mutations in diffuse glioma and many more. He is a key pathologist behind the WHO classification of brain tumours.



Professor **Arturo Chiti** is Director of the Nuclear Medicine Department, Humanitas Research Hospital, Italy. His main interest with main interest the use of PET-CT with different radiopharmaceuticals in oncology. He is President of the European Association of Nuclear Medicine



Dr **Marco Catani** is one of the world's leading authorities on DTI on brain anatomy and language. He pioneered the use of diffusion tractography to identify new connections in the human brain. He is the Head of the NatBrainLab ([www.natbrainlab.com](http://www.natbrainlab.com)) at the Institute of Psychiatry, King's College London.



Professor **Cathy Price** is Director of the Wellcome Trust Centre for Neuroimaging. She is an expert in the use of structural and functional brain imaging for understanding cognitive processing. Her work has led to many novel neuroscientific insights into the neural mechanisms sustaining language and reading.

For a complete list of all faculty members, please go to [www.neurosurgery-courses.com](http://www.neurosurgery-courses.com)

## COURSE DIRECTORS



**George Samandouras**, London, UK  
Consultant Neurosurgeon and Course Director  
Victor Horsley Department of Neurosurgery  
The National Hospital for Neurology and  
Neurosurgery  
Queen Square, London



**Neil Kitchen**, London, UK  
Consultant Neurosurgeon and Clinical Director  
Victor Horsley Department of Neurosurgery  
The National Hospital for Neurology and  
Neurosurgery  
Queen Square, London