



PROGRAMME – MAIN SESSIONS | LECTURE THEATRE A
WEDNESDAY 22ND JUNE 2022

09.00 Registration, refreshments, exhibition Atrium

EDUCATIONAL SESSIONS
STANDARDISATION | LECTURE THEATRE A CHAIRS: Samantha Mills,
Shaveta Mehta

10.00	Standardisation in radiology from acquisition to report	Samantha Mills
10.50	Standardised treatment versus personalised medicine in neuro-oncology	Catherine McBain
11.40	Managing epilepsy (and other neurological symptoms) in neuro-oncology patients	Fiona McKevitt
12.30	Summary and close	

12.30 Lunch and exhibition Atrium

LUNCHTIME EXHIBITOR SHOWCASE
Details TBC



PROGRAMME – PARALLEL SESSIONS | LECTURE THEATRES B AND C
WEDNESDAY 22ND JUNE 2022

EDUCATIONAL SESSIONS | LECTURE THEATRE B
VIDEO CLINICS – GETTING BETTER RESOLUTION CHAIRS: Farouk Olubajo,
Emmanuel Chavredakis

During this workshop we will explore the potential role of video technology for use in clinics, providing histology or breaking bad news. Delegates will learn how to use video technology most effectively to aid engagement with important conversations.		
10.00	Welcome and introduction	
10.05	Getting the most out of video consultations - Why virtual clinics? - What you can do with video clinics - Tips to improve video consultation (technology)	Tracy Towler
10.30	Communication skills and video technology – Workshop Group discussions exploring communication aims and outcomes, and consideration of the clinic environment versus video technology or telephone	Jacqui Ball
11:00	Important conversations via video technology – Engaging with patient-centred approaches - Giving significant information or breaking bad news – Setting the scene and key considerations that should inform your communication approaches - Using interactive role-play demonstration to identify key communication skills when giving significant information or breaking bad news via video technology	Jacqui Ball
12:30	Summary and Close	

EDUCATIONAL SESSIONS | LECTURE THEATRE C
CAN PRE-CLINICAL BRAIN TUMOUR MODELS TRANSLATE TO
IMPROVEMENT IN CLINICAL CARE? CHAIRS: Victoria Wykes,
Ruman Rahman

The session highlights innovative new experimental brain tumour models to expedite preclinical to clinical translation.		
10.00	GlioModel – Using a range of preclinical models for target validation in GBM	Lucy Stead
10: 30	Modelling glioblastoma responses to drug-radiation combination treatments	Natividad Gomez-Roman
11.00	Analytic approaches to clinical validation of results from preclinical models of Glioblastoma – A systematic review	Michael TC Poon
11.10	Establishment of a non-animal derived GBM spheroid invasion assay	Sally Prior
11.20	Convergence of stem cell biology, synthetic biology and gene therapy – New approaches to tackle glioblastoma	Steven Pollard
11.50	Debate – What do next-generation preclinical brain tumour models look like?	
12.20	Summary and close	



PROGRAMME – MAIN SESSIONS | LECTURE THEATRE A
WEDNESDAY 22ND JUNE 2022 (CONT'D)

13.15	Welcome to Liverpool BNOS 2022	Paul Grundy, Andrew Brodbelt
13.25	Invited speaker Clinical trials in patients with brain tumours – Past, present and future	Roger Stupp
NEUROSURGERY		CHAIRS: TBC
14.00	Novel and emerging surgical technologies	Ryan Mathews
14.25	Surgical and oncological score to estimate the survival benefit of resection and chemoradiotherapy in elderly (≥70 years) glioblastoma patients – A preliminary analysis	Mark Zorman
14.35	The value of diffusion tractography for awake surgery	Joy Roach
14.45	The Tessa Jowell brain cancer mission – An update	Nicky Huskens
15.00	Refreshments, exhibition and poster session	Atrium

PATHOLOGY		CHAIRS: TBC
15.30	The New WHO pathological classification – Clinical implications for glioma diagnosis	Kathreena Kurain
15.55	Inflammation and immune response in glioma	Juanita Lopez
16.20	SYNGN – A novel patient-specific drug-matching strategy in glioblastoma	Silvia Marino
16.30	Novel application of polygenic risk scores identifies biomarkers for early detection of glioma	Lily Andrews
16.40	Cell surface expression of FGFR1 identifies a glioblastoma cancer stem cell population with a distinct metabolic profile	Florian Siebzehnruhl
16.50	Temozolomide sensitivity of malignant glioma cell lines – A systematic review assessing consistencies between in vitro studies	Michael TC Poon
17.00	Close of day one	

SHIVERPOOL HAUNTED WALKING TOUR WITH A MEDICAL THEME
18.00 and 18.25
Available only to those pre-booked
Meeting point – The Philharmonic Dining Rooms | 36 Hope Street | L1 9BX

NETWORKING AND WELCOME RECEPTION
19.30 – 20.30
13th Floor | The Spine Building | Smithdown Road | L7 3FA
Available to all delegates



PROGRAMME – PARALLEL SESSIONS | LECTURE THEATRES B AND C
WEDNESDAY 22ND JUNE 2022 (CONT'D)

BASIC SCIENCE I LECTURE THEATRE B		CHAIRS: TBC
14.00	Modelling SHH-medulloblastoma using cerebellar organoids	Max van Essen
14.10	Identification of an inflammatory biomarker signature in plasma-derived extracellular vesicles of glioblastoma patients	Giles Critchley
14.20	Hull's magic box – Keeping brain tumour biopsies "alive" in the lab brings research opportunities for new therapies and earlier diagnosis of brain tumour	Antonia Barry
14.30	Glioma cell invasion is dependent upon the DNA damage response kinase ATR	Ross Carruthers
14.40	The identification and validation of plasma membrane proteins as potential therapeutic targets for histone H3 mutant paediatric high-grade gliomas	Anya Snary
14.50	What is the initial cell for glioblastoma evolution?	Seok-Gu Kang
15.00	Refreshments, exhibition and poster session	Atrium

METASTASES LECTURE THEATRE B		CHAIRS: TBC
15.30	Evolution of clinical trials	Sherise Ferguson
15.55	Immuno for brain metastases	Mihaela Lorger
16.20	Hippocampal dosimetry and neurocognitive function in patients undergoing stereotactic radiosurgery for brain metastases	Sahar Iqbal
16.30	Survival outcomes of stereotactic radiotherapy for ten or more brain metastases	Hamoun Rozati
16.40	Stereotactic radiosurgery for brainstem metastases	Mitchell Hickman
16.50	Retrospective review of carcinomatous meningitis management at a tertiary centre – Reflections on current and future management	Simon Williams
17.00	Close of day one	

PROGRAMME – MAIN SESSIONS | LECTURE THEATRE A

THURSDAY 23RD JUNE 2022

FUN RUN

07.00 – 08.00

Available only to those pre-booked. Transport details TBC.

The first BNOS fun run will take place with a route that runs along the scenic Mersey River and Liverpool Docks.

This will take place on Thursday morning. Both 5km and 10 km routes are available and there are limited edition BNOS t-shirts for all registrants. The theme is to raise awareness for brain tumour patients, and participants are encouraged to wear a wig, or decorate their hair and /or head.

08.00Registration, refreshments, exhibitionAtrium

CLINICAL TRIALS		CHAIRS: TBC
09.00	Early phase clinical trials in brain tumours, current and future directions	Juanita Lopez
09.24	Immunotherapy – is there ever a role?	Anna Olsen Brown
09.48	Tips on organising a successful clinical trial	Roger Stupp
10.10	Autologous tumor lysate-loaded dendritic cell vaccination in patients with newly diagnosed and recurrent glioblastoma – Survival results from a phase 3 trial	Keyoumars Ashkan

10.30Refreshments and exhibitionAtrium

BREAKTIME EXHIBITOR SHOWCASE

Details TBC

PROGRAMME – PARALLEL SESSIONS | LECTURE THEATRES B AND C

THURSDAY 23RD JUNE 2022

PREHABILITATION LECTURE THEATRE B		CHAIRS: TBC
09.00	Improving surgical outcomes for patients with cancer	Declan Dunn
09.25	Setting up a prehabilitation service	Claire Knowles
09.45	Prehabilitation in Neuro-oncology	Catheryn Lewis
10.30	Close of session	

BASIC SCIENCE II LECTURE THEATRE C		CHAIRS: TBC
09.00	Glioblastoma – addicted to oncogenes?	Igor Vivanco
09.25	Spatially resolved transcriptomics reveal unique defining molecular features of infiltrative tumour cells associated with glioblastoma recurrence	Ruman Rahman
09.35	Glioma espionage from longitudinal CSF proteomics	Ameeta Retzer
09.45	Evaluation of a panel of 105 cytokines from human glioblastoma (GBM) tissue maintained, and treated, on a unique microfluidic platform	Amr Moursi
09.55	The role of miRNAs in gliomas in response to hypoxia	Louise Smith
10.05	Transcriptome-wide Mendelian Randomisation using expression, protein and splicing quantitative trait loci to identify novel drug targets associated with risk of gliomagenesis	Zak Thornton
10.15	Computer-aided design of novel CDK5 inhibitors – Towards new treatments of glioblastoma	Zahra Khan
10.25	Close of session	

10.30Refreshments and exhibitionAtrium



PROGRAMME – MAIN SESSIONS | LECTURE THEATRE A
THURSDAY 23RD JUNE 2022 (CONT'D)

NEUROSURGERY		CHAIRS: TBC
11.00	Immersive technology in brain tumour management	Ryan Mathews
11.25	ChemoSeed® – A novel implantable device for the treatment of high grade gliomas	Christopher McConville
11.35	Understanding the risks to cognitive function and the early timeframe of recovery after surgery for glioblastoma – Tools to help patient and carer counselling	Riccardo Masina
11.45	Identifying enhancing tumour without contrast-enhanced imaging	James Ruffle
11.55	Variation in early post-operative outcomes of patients with intracranial tumours between countries – Insights from a prospective international cohort study during the COVID-19 pandemic	COVID Surg-Cancer Neurosurgery Investigators
12.05	Awake craniotomy is well-tolerated in the elderly – Our early experience	Rosina Khan
12.15	Usability of mixed reality in awake craniotomy planning	Richard Moon
12.25	Lunch and exhibition	Atrium
LUNCHTIME EXHIBITOR SHOWCASE Details TBC		



PROGRAMME – PARALLEL SESSIONS | LECTURE THEATRES B AND C
THURSDAY 23RD JUNE 2022 (CONT'D)

NEUROPSYCHOLOGY LECTURE THEATRE B		CHAIRS: TBC
11.00	Neuropsychology vs psychology – A model of integrated care	Selina Makin, Jackii Bamborough
11.45	Optimizing brain tumour patients at presentation – A Liverpool approach	Christine Rhall, Anna Crofton
12.30	Close of session	
PAEDIATRIC AND LATE EFFECTS LECTURE THEATRE C		CHAIRS: TBC
11.00	Late effects of treatment	Nicky Thorpe
11.25	Neurosurgically-applied chemotherapy for childhood brain tumours arising in the posterior fossa using a biodegradable paste	Cara Moloney
11.35	Long term quality of life outcomes following surgical resection alone for benign paediatric intracranial tumours	Siddhant Kumar
11.45	Comparative analysis of the Histone H3 mutant protein interactome landscape in paediatric high-grade gliomas	Farhana Haque
11.55	CLIC1 and CLIC4 ion channel deficiency confers increased sensitivity to tumour treating fields and improved survival in paediatric glioblastoma	Michaela Griffin
12.05	RNA methylation as a therapeutic target in paediatric glioblastoma multiforme	Masar Radhi
12.15	A comparative proteomic analysis of the cell membrane of histone 3 mutated paediatric high-grade gliomas in order to identify potential immunotherapeutic target	Farhana Haque
12.25	Lunch and exhibition	Atrium



PROGRAMME – MAIN SESSIONS | LECTURE THEATRE A
THURSDAY 23RD JUNE 2022 (CONT'D)

13.15	Invited speaker Mental resilience and coping with change	David Bolton
	BEYOND NICE	CHAIRS: TBC
14.00	The role of Cannabis in the treatment of brain tumour patients	Chris Twelves
14.25	Proprietary combination drug therapy for brain tumour patients	Samir Agrawal
14.50	Panel discussion What should be the standard of care? Paul Grundy, Rohit Sinha, Chris Twelves and Samir Agrawal	
15.00	Refreshments, exhibition and poster session	Atrium
15.30	BNOS AGM	
16.15	BNOS council meeting	
17.30	Close of day two	

BNOS CONFERENCE DINNER
19.00 – 00.00
The Isla Gladstone Conservatory | 1 Anfield Road | L4 OTD
Available only to those pre-booked. Transport details TBC.

After dinner speaker | John Barnes | Ethnicity and diversity



PROGRAMME – PARALLEL SESSIONS | LECTURE THEATRES B AND C
THURSDAY 23RD JUNE 2022 (CONT'D)

GLIOMAS LECTURE THEATRE B		CHAIRS: TBC
14.00	Standardising molecular testing, what should we use and how long will it take	Kathreena Kurain
14.25	Modulation of GABA neurotransmitter signalling impacts glioblastoma spheroid growth and response to standard treatment	Rhiannon Barrow
14.35	Detection of label-free drugs within brain tissue using Orbitrap secondary ion mass spectrometry as a complement to neuro-oncological drug delivery	Phoebe McCrorie
14.45	Development of novel LAT1 targeting small molecules for boron neutron capture therapy (BNCT)and potential application for treating glioblastoma	Kendall Morrison
14.55	Close of session	
15.00	Refreshments, exhibition and poster session	Atrium
COGNITIVE EVALUATION AND REHAB IN GLIOMAS LECTURE THEATRE B		CHAIRS: TBC
15.30	Cognitive evaluation and rehabilitation in gliomas	Rohit Sinha
16.15	Integrated enhanced recovery – A paradigm change in neuro-oncology	Jose Lavrador, Vicky Herwitz
17.00	Close of session	
FREE PAPERS LECTURE THEATRE C		CHAIRS: TBC
16.10	Low grade glioma – A COVID low surgical priority?	William White
16.20	Motor seizures confer overall survival benefit in WHO Grade 2 glioma	Sam Fairclough
16.30	Seizure semiology over time in adult diffuse glioma	Claire Carstairs
16.40	Systemic inflammation is implicated in de novo seizures following meningioma resection	Ali Bakhsh
16.50	The cost of treating adult glioblastoma patients in England	Nour Kanso
17.00	Close of session	

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FRIDAY 24TH JUNE 2022

LIVERPOOL AQUA PARK
07.00 – 08.00

For the more adventurous, Friday morning includes an optional trip to the Liverpool Aqua Park in the Albert Docks. This adventure park includes slides, jump off points, trampolines, all on the water, and guaranteed to get to get you awake for the scientific sessions that follow. There are a limited number of places, please indicate your interest when registering. Charges apply.

08.00Registration, refreshments and exhibitionAtrium

SOCIAL MEDIA		
09.00	A round table discussion of the advantages, disadvantages, challenges, and opportunities of social media in the brain tumour world. Questions can be submitted beforehand via sli.do. There may be time for some further questions on the day. The panel includes: Mark Flannagan Director of marketing and communications Alder Hey Children's Hospital Jill Socratous Specialist neurooncology nurse, Clatterbridge Cancer Centre Chambous Green The Brain Tumour Charity ambassador Jacqui Vintin Consultant neuropsychologist Catherine Fraher Director of Services and Digital Health, The Brain Tumour Charity TBC	

10.30Refreshments and exhibitionAtrium

BREAKTIME EXHIBITOR SHOWCASE
10.30 – 10.50

Details TBC

PROGRAMME – PARALLEL SESSIONS | LECTURE THEATRES B AND C

FRIDAY 24TH JUNE 2022

RADIOLOGY/CLINICAL LECTURE THEATRE B		CHAIRS: TBC
09.00	Intravoxel Incoherent Motion (IVIM) diffusion-weighted imaging to assess treatment response of choline kinase inhibition on GL261 mouse glioblastoma	Nooradean Ahmed
09.10	The anisotropic component of the diffusion tensor (DTI-Q) is correlated to overall survival in glioblastoma (GBM)	Natalie Simon
09.20	MR electrical properties tomography (MREPT) at 9.4T to assess treatment response of choline kinase inhibition on GL261 glioblastoma	Tareq Alrashidi
09.30	Early post-treatment pseudo-continuous arterial spin labelling stratifies 12 month survival in gliomas	Alice Maguire
09.40	Gliocova - Predictors of post-operative complications, 30 day mortality and readmission after first surgical intervention in brain tumour patients in England between 2013-2018	Radvile Mauricaite
09.50	Multifocal and Multicentric Glioblastomas - A 10 year single centre experience	Helen Maye
10.00	A retrospective review of the management of lung cancer patients referred into the regional neuro-oncology pathway in Merseyside, United Kingdom	Jonathan Heseltine
10.10	The Usefulness of pre-operative extra-cranial imaging in radiologically suspicious glioblastoma multiforme in the west of Scotland - And a proposal of an imaging diagnostic pathway	Simon Lammy
10.20	Newly diagnosed brain tumours - When is a staging CT required?	Hemanth Vupputuri
10.30	Refreshments and exhibition	Atrium

PROGRAMME – MAIN SESSIONS | LECTURE THEATRE A
FRIDAY 24TH JUNE 2022 (CONT'D)

YOUNG INVISTIGATOR AWARD AND TOP SCORING PAPERS		CHAIRS: TBC
11.00	Young Investigator award	
11.25	Pro-drug nanoparticle loaded supramolecular hydrogels for drug delivery to IDH1 wild-type glioblastoma	Robert Cavanagh
11.45	IDHwt glioblastomas show opposing resistance mechanisms across patients in response to standard treatment	Georgette Tanner
12.05	Where do people with primary malignant brain tumours die? A national cohort study in England, using GlioCova data	Micah Caldano
12.25	BNOS 2023 Manchester	
12.30	Closing remarks	Paul Grundy, Andrew Brodbelt
12.40	Close of conference, departure lunch and exhibition (takeaway lunches available)	

PROGRAMME – PARALLEL SESSIONS | LECTURE THEATRES B AND C
FRIDAY 24TH JUNE 2022 (CONT'D)

FREE PAPERS LECTURE THEATRE B		CHAIRS: TBC
11.00	Clinical evaluation of Gamma Knife Stereotactic Radiosurgery for metastatic disease in elderly patients	Mai Bishr
11.10	Impact of the neuro-radiologist and neuro-surgeon in contouring with the neuro-oncologist on local relapse rates for brain metastases treated with stereotactic radiosurgery	Rhona Watson
11.20	CaPaBLE - Assessing the patient generated index methodology in high grade glioma patients and caregivers	Lillie Pakzad-Shahabi
11.30	Health-related quality of life in patients with high-grade glioma - A systematic review	Elen Sanphere
11.40	Health-related quality of life in patients with primary spinal intradural tumours – A systematic review	Ahmad Mahmoud El-Sayed Ali
11.50	How can clinical teams support patients with a brain tumour diagnosis with sex relationships and intimacy?	Ellie Kostick
12.00	The experiences of people with glioma and their caregivers: Living with uncertainty and long term consequences (COBra Study)	Elin Baddeley
12.10	Core outcomes in brain tumour trials – The COBra study review of glioma trial registration data	Ameeta Retzer
12.20	The outcomes measured and reported in meningioma clinical effectiveness trials are heterogeneous and preclude comparative analysis of results – A systematic review	Christopher Millward
12.30	Close of session	