

3rd International Genome Dynamics in Neurosciences Conference
”DNA Repair and Neurological Disease”
Hilton Metropole Hotel, Brighton, England, July 18-21, 2010

Program

SUNDAY 18 July	
14.00-18.00	Registration
18.00-18.10	Welcome
18.10-19.05	Malcolm Taylor (UK) <i>Ataxia telangiectasia (ATM), A-T like disorder (MRE11), AOA1 (APTX) and AOA2 (SETX) in the UK – variability of the neurological, genetic and cellular phenotypes</i>
19.05-20.00	Jan Hoeijmakers (Netherlands) <i>The link between DNA damage, global and transcription coupled repair and neurodegeneration</i>
20.00-22.00	Drinks Reception
MONDAY 19 July	
09.00-10.45	Session 1; DNA Strand Breakage, Repair, & Signaling in the Brain (1)
09.00-09.05	Chair; Yossi Shiloh
09.05-09.30	Penny Jeggo (UK) <i>DNA damage responses in the embryonic neuronal stem and early progenitor cells</i>
09.30-09.55	John Petrini (USA) <i>Genetic analysis of chromosome break metabolism</i>
09.55-10.20	Zhao-Qi Wang (Germany) <i>How does MCPH1 prevent microcephaly?</i>
10.20-10.45	Mark O'Driscoll (UK) <i>Defective genome stability and impaired neurogenesis in congenital human disorders</i>
10.45-11.25	Coffee and Sponsor Exhibits
11.25-12.45	Session 2; DNA Strand Breakage, Repair, & Signaling in the Brain (2)
11.25-11.30	Chair; Vilhelm Bohr
11.30-11.55	Kalluri Subba Rao (India) <i>Study of DNA damage profiles with aging in rat brain neurons and astrocytes through “Comet” assay</i>
11.55-12.20	David Wilson 3rd (USA) <i>Defective processing of endogenous DNA damage in neurodegenerative disorders</i>
12.20-12.45	Peter McKinnon (USA) <i>DNA repair deficiency and neurodegeneration</i>
12.45-13.45	Buffet Lunch

13.45-15.05	Session 3; DNA Base Damage & Repair in the Brain
13.45-13.50	Chair; Cynthia McMurray
13.50-14.15	Magnar Bjoras (Norway) <i>Properties of Neil3 in proliferation & differentiation of stem/progenitor cells in brain</i>
14.15-14.40	Zixu Mao (USA) <i>Regulation of ATM in postmitotic neurons by Cdk5</i>
14.40-15.05	Yusaku Nakabeppu (Japan) <i>Base excision repair-mediated programmed cell death and neurodegeneration</i>
15.05-15.45	Coffee and Sponsor Exhibits
15.45-17.30	Session 4; Nucleotide Excision Repair Proteins in the Brain
15.45-15.50	Chair; Jan Hoeijmakers
15.50-16.15	Jean-Marc Egly (France) <i>Neurological disorders in xeroderma pigmentosum / trichothiodystrophy</i>
16.15-16.40	Thierry Nospikel (UK) <i>Nucleotide excision repair downregulation in neurons is controlled by ubiquitination</i>
16.40-17.05	PJ Brooks (USA) <i>Consideration of mechanisms underlying the different neuropathologies of CS and XP</i>
17.05-17.30	Laura Niedernhofer (USA) <i>Peripheral and central nervous system degeneration in ERCC1-XPF deficient mice</i>
17.30-19.00	Posters
19.00	Free Time
TUESDAY, 20 July	
09.00-10.20	Session 5; DNA Damage and Neurological Disease/Spinocerebellar Ataxia (1)
09.00-09.05	Chair; Martin Lavin
09.05-09.30	Keith Caldecott (UK) <i>DNA strand break repair and neurological disease</i>
09.30-09.55	Ari Barzilai (Israel) <i>The effect of malfunctioning DDR on neural and glial functionality</i>
09.55-10.20	Sherif F. El. Khamisy (UK) <i>DNA end processing and human ataxia</i>
10.20-11.00	Coffee and Sponsor Exhibits
11.00-12.45	Session 6; DNA Damage and Neurological Disease/Spinocerebellar Ataxia (2)
11.00-11.05	Chair; Malcolm Taylor
11.05-11.30	Tone Tonjum (Norway) <i>Neurogenetics of aging and Alzheimer disease: Impact of base excision</i>
11.30-11.55	Yossi Shiloh (Israel) <i>The ATM-mediated DNA damage response in proliferating and post-mitotic cells in the nervous system</i>

11.55-12.20	Martin Lavin (Australia) <i>Role of senataxin in protecting against neurodegeneration</i>
12.20-13.20	Buffet Lunch
13.20-14.40	Session 7; Neural Cell Fate, Mitochondria, and Aging
13.20-13.25	Chair; Peter McKinnon
13.25-13.50	Vilhelm Bohr (USA) <i>DNA repair in neurodegeneration and an effect of glutamate</i>
13.50-14.15	Jan Vijg (USA) <i>Genome dynamics in the aging brain</i>
14.15-14.40	Mark Lovell (USA) <i>DNA damage and repair in the progression of Alzheimer's disease</i>
14.40-15.20	Coffee and Sponsor Exhibits
15.20-16.40	Session 7 (continued)
15.20-15.25	Chair; Jan Vijg
15.25-15.50	Arne Klungland (Norway) <i>Mitochondrial DNA toxicity compromise mitochondrial dynamics and induces the hippocampal antioxidant defense</i>
15.50-16.15	Bob Lightowlers (UK) <i>Using natural competence as a method for investigating DNA repair mechanisms in mitochondria</i>
16.15-16.40	Karl Herrup (USA) <i>DNA damage and the cell cycle - team players in neurodegenerative disease</i>
16.40	Free Time
19.00-23.00	(Optional) Banquet at The Royal Pavilion
WEDNESDAY, 21 July	
09.00-10.55	Session 8; Triplet Repeat Instability and Neurodegeneration
09.00-09.05	Chair; J Paul Taylor
09.05-09.30	Didier Devys (France) <i>Chromatin modifications induced by a polyglutamine expansion in Ataxin-7, a subunit of the SAGA transcriptional co-activator complex</i>
09.30-09.55	Chris Pearson (Canada) <i>Repeat instability and the basis for human neurological diseases</i>
09.55-10.20	Cynthia McMurray (USA) <i>Cause and effects of DNA instability in Huntington's disease</i>
10.20-10.45	Darren Monckton (UK) <i>Myotonic dystrophy: complex repeats in a complex neurological disorder</i>
10.45-10.50	Concluding remarks
10.50-11.30	Coffee and depart