THE 2016 ALZHEIMER'S DISEASE CONGRESS

AGENDA

7TH – 9TH JUNE 2016
London, UK
This three day international academic congress will bring to light the current research and treatments being developed for Alzheimer’s Disease.

Alzheimer’s Disease has been recognised as the most prevalent form of dementia; an ever-growing issue in an ageing society. Over three days the Alzheimer’s Disease summit will discuss many aspects of disease progression, development and treatment in an informal academic setting. Topics for discussion include prediction and prevention strategies, vaccine development, drug discovery and care. With plenty of opportunity for networking and debate, this informal international meeting will bring you up to date with current research and thinking regarding Alzheimer’s Disease.

This event has CPD accreditation

www.lifescienceevents.com/alz2016

#Alz2016
Contents

AGENDA .................................................................................................................. 7

Day 1: Aetiology and Pathogenesis ........................................................................ 7

Introduction by the Chair ....................................................................................... 7

What makes an amyloidogenic protein toxic? Dissecting the sequence - self-assembly -toxicity relationship for amyloid peptides ................................................................. 7

Inflammation in Dementia with Lewy bodies and Alzheimer's Disease ......................... 7

Loss of neuroprotective signalling lipids contributes to neurodegeneration in pre-clinical Alzheimer’s Disease .................................................................................................................. 7

Cholesterol's contribution to autophagy deficits in Alzheimer's Disease ....................... 7

The regulation of metastable proteins in neurodegenerative Diseases ......................... 7

THE IMPAIRMENT OF BILIVERDIN REDUCTASE-A PROMOTES BRAIN INSULIN RESISTANCE IN ALZHEIMER DISEASE: A NOVEL MECHANISM .................................................................................. 7

Dystrophic neurites are sites of microtubule disruption, BACE1 elevation, and increased Aβ generation: the potential role of Aβ oligomers .................................................................................. 7

Associations of sorLA/SORL1 with Alzheimers disease ............................................... 7

Multiple roles of cholinergic neurons in the modulation of amyloid production ............... 7

Oral Presentations ..................................................................................................... 7

WHAT IF DEMENTIA WAS DUE TO CALCAREOUS? ..................................................... 7

GLIAL REGULATION OF NEOCORTICAL SYNAPTIC TRANSMISSION: IMPLICATION FOR ALZHEIMER’S DISEASE .............................................................. 7

Good things in small packages: The molecular chaperone action of the small heat shock chaperone proteins ................................................................................................. 7

The role of heparan sulfates in the amyloid pathology of Alzheimer disease .................... 7

The role of Pb in AD pathogenesis ............................................................................. 7

The involvement of type-1 interferon signalling and resultant neuroinflammation Alzheimer’s Disease .................................................................................................................. 7

Computational studies on the toxicity mechanisms of amyloid beta peptides aggregation in relation to Alzheimer’s disease ................................................................. 7

Day 2: Characterisation and Diagnosis .................................................................... 8

Introduction by the Chairs ....................................................................................... 8

Probing dementia-associated disruption of neural circuits using neurophysiology and imaging in murine models ............................................................................................... 8

Calcium, Memory and Alzheimer’s disease .................................................................... 8

Where did we go wrong in the study of APP processing?............................................. 8

Paradigm Shift: Semantic memory decline as a biomarker of preclinical Alzheimer’s disease ......................................................................................................................... 8

Oral Presentation ...................................................................................................... 8

MINI SKQ (SEMANTIC KNOWLEDGE QUESTIONNAIRE): 12 QUESTIONS TO HIGHLIGHT SEMANTIC DETERIORATION IN ALZHEIMER'S DISEASE ........................................................................ 8

Predicting Progression to Mild Cognitive Impairment in Cognitively Unimpaired Individuals Using Neuroimaging Biomarkers ................................................................. 8

Functional imaging markers of cognitive decline in preclinical Alzheimer disease .......... 8

Characterizing Prodromal Alzheimer's Disease Using Multimodality Imaging ............... 8
EEG biomarkers and profiling of AD mouse lines ................................................................. 8
Lunch Break with Exhibitions ............................................................................................... 8
Alpha2 adrenergic receptor as a novel target for Alzheimer's disease .......................... 8
Smell identification function in Alzheimer's disease .......................................................... 8
Granulovacuolar degeneration, a neurodegenerative change that accompanies tau pathology ................................................................. 8
Chaperoning Tau aggregation .............................................................................................. 8

Day 3: Disease Management & Therapeutics ..................................................................... 9
Introduction by the Chair ..................................................................................................... 9
Drugs used in multiple pathologies, with stresses common to Alzheimer's disease, offer candidate drugs and vaccine potential for Alzheimer's disease .................................................. 9
Targeting Nucleophilic Attack During the Lag-phase of Beta-Amyloid Oligomerization ................................................................. 9
Is GluN2B-NMDA receptor a good target in treating Alzheimer's disease ..................... 9
Poster Review and Exhibitions .......................................................................................... 9
c-Abl signaling in Alzheimer's disease and other Neurodegenerative diseases: Projections for drugs searching ................................................................. 9
Sigma-1 receptor ligand Fluvoxamine modulates production of amyloid beta peptides in vitro and is protective in J20 Alzheimer disease mice ........................................................................... 9
PET imaging biomarkers in Alzheimer's Disease .............................................................. 9
The role of proliferating astrocytes in Alzheimer's disease ............................................. 9
Biomedical nanotechnology and Alzheimer's. Can the disease be reversed? ............... 9
Potential therapeutic strategies of Cerebrolysin in Alzheimer's Disease ......................... 9
The drug therapy to increase stem cells for treatment of Alzheimer's disease ............... 9
Alzheimer's Disease: a clinical viewpoint ......................................................................... 9
Psychological treatments for depression and anxiety in dementia and mild cognitive impairment: systematic review and meta-analysis ................................................................. 9
Question Time .................................................................................................................. 9

ABOUT THE SPEAKERS ..................................................................................................... 10
Amit Arora ........................................................................................................................... 10
Jay Amin ............................................................................................................................... 10
Olav Michael Andersen ...................................................................................................... 10
Eugenio Barone .................................................................................................................. 11
Michael Berridge ................................................................................................................. 11
Anna Colell .......................................................................................................................... 11
Lock Chew ........................................................................................................................... 12
Ming Chen ........................................................................................................................... 12
Peter Crack .......................................................................................................................... 12
Anthony Simon Don .......................................................................................................... 12
Fabio Di Domenico ............................................................................................................ 13
Yansheng Du ....................................................................................................................... 13
Heath Ecroyd.................................................................................................................. 13
Panteleimon Giannakopoulos............................................................................................ 14
Karl Herholz.................................................................................................................... 14
Charlotte Jendresen........................................................................................................ 15
Andis Klegeris................................................................................................................ 15
Christoph Köhler............................................................................................................ 15
Umur A. Kayabasi, MD..................................................................................................... 16
John BJ Kwok.................................................................................................................. 16
Slavica Krantic................................................................................................................ 16
Rishika Kundra................................................................................................................. 16
Isabelle Simoes Loureiro................................................................................................. 17
Val Lowe......................................................................................................................... 17
Oleksandr Makarenko..................................................................................................... 17
Vasiliki Orgeta................................................................................................................ 17
Bettina Platt..................................................................................................................... 18
Natalya Ponomareva...................................................................................................... 18
Yuriy Pankratov.............................................................................................................. 18
Jane Rylett...................................................................................................................... 19
Stefan Rüdiger................................................................................................................ 19
Angela Scibetta.............................................................................................................. 20
Cynthia M. Stonnington................................................................................................. 20
Adrien W. Schmid.......................................................................................................... 20
Kiminobu Sugaya.......................................................................................................... 20
Louise Serpell.................................................................................................................. 21
Magdalena Sastre.......................................................................................................... 21
Michal Schwartz........................................................................................................... 21
Hari Shanker Sharma..................................................................................................... 22
Joan Smith Sonneborn.................................................................................................... 22
Antonella Tramutola...................................................................................................... 23
Annalena Venneri........................................................................................................... 23
Ana Viegas...................................................................................................................... 23
Latha Velayudhan........................................................................................................ 24
Robert Vassar................................................................................................................. 24
Christopher Whiteley..................................................................................................... 24
Qin Wang......................................................................................................................... 25
Zhiming Zhang.............................................................................................................. 25

ABOUT THIS EVENT........................................................................................................ 26
<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Event</th>
<th>Speaker/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00 – 09:50</td>
<td>Exhibitions open</td>
<td>Registration and Refreshments</td>
</tr>
<tr>
<td>09:50 – 10:10</td>
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<td></td>
</tr>
<tr>
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<td>Dr. Peter Crack, University of Melbourne, Melbourne, Australia</td>
</tr>
<tr>
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<td>Dissecting the sequence - self-assembly - toxicity relationship for amyloid peptides</td>
<td>Dr. Olav Michael Andersen, Aarhus University, Aarhus, Denmark</td>
</tr>
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<td>Inflammation in Dementia with Lewy bodies and Alzheimer’s Disease</td>
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<tr>
<td></td>
<td>Dr. Yansheng Du, University of Oslo and Oslo University Hospital, Oslo, Norway</td>
<td></td>
</tr>
<tr>
<td>10:30 – 10:50</td>
<td>Loss of neuroprotective signalling lipids contributes to neurodegeneration in pre-clinical Alzheimer’s Disease</td>
<td>Dr. Anish Klieger, University of British Columbia Okanagan Campus, Kelowna, British Columbia, Canada</td>
</tr>
<tr>
<td>10:50 – 11:05</td>
<td>Poster Review and Exhibitions</td>
<td>Refreshments provided</td>
</tr>
<tr>
<td>11:05 – 11:25</td>
<td>Cholesterol’s contribution to autophagy deficits in Alzheimer’s Disease</td>
<td>Dr. Anna Colell, Institute of Biomedical Research of Barcelona, Spain</td>
</tr>
<tr>
<td>11:25 – 11:45</td>
<td>Link between the modifiable risk factors of Alzheimer’s disease and neuroinflammation</td>
<td>Dr. Andis Klieger, University of British Columbia Okanagan Campus, Kelowna, British Columbia, Canada</td>
</tr>
<tr>
<td>11:45 – 12:05</td>
<td>Neurophysiological vulnerability to aging associated with the Alzheimer’s risk variant in CLU gene</td>
<td>Dr. Natalya Ponomareva, Research Center of Neurology, Russian Federation</td>
</tr>
<tr>
<td>12:05 – 12:25</td>
<td>The regulation of metabolite proteins in neurodegenerative Diseases</td>
<td>Rishika Kundra, University of Cambridge, St. Johns College, Cambridge, United Kingdom</td>
</tr>
<tr>
<td>12:25 – 12:45</td>
<td>Fighting Alzheimers Disease</td>
<td>Professor Michal Schwartz, The Weizmann Institute of Science, Rehovot, Israel</td>
</tr>
<tr>
<td>12:45 – 13:05</td>
<td>Oral Presentations</td>
<td></td>
</tr>
<tr>
<td>12:45 – 12:55</td>
<td>UBQUITOMETE PROFILE IN DOWN SYNDROME BRAIN PRIOR TO AND AFTER DEVELOPMENT OF ALZHEIMER NEUROPATHOLOGY</td>
<td>Dr Antonella Tramutola, Department of Biochemical Sciences &quot;A. Rossi-Fanelli&quot; - Sapienza University of Rome, Italy</td>
</tr>
<tr>
<td>12:55 – 13:05</td>
<td>THE IMPAIRMENT OF BILIVERDIN REDUCTASE-A PROMOTES BRAIN INSULIN RESISTANCE IN ALZHEIMER DISEASE: A NOVEL MECHANISM</td>
<td>Dr. Eugenio Barone, Department of Biochemical Sciences &quot;A. Rossi-Fanelli&quot; - Sapienza University of Rome, Italy</td>
</tr>
<tr>
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<td></td>
</tr>
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<td>Dystrophic neurites are sites of microtubule disruption, BACE1 elevation, and increased Aβ generation: the potential role of Aβ oligomers</td>
<td>Professor Robert Vassar, Feinberg School of Medicine, Northwestern University Interdepartmental Neuroscience, Chicago, IL, USA</td>
</tr>
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<td>Multiple roles of cholinergic neurons in the modulation of amyloid production</td>
<td>Dr. Jane Rylett, Schulich Medicine &amp; Dentistry, London, Ontario, Canada</td>
</tr>
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<td>Oral Presentations</td>
<td></td>
</tr>
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<td>WHAT IF DEMENTIA WAS DUE TO CALCAREOUS?</td>
<td>Angela Scibetta, Ronchis, Italy</td>
</tr>
<tr>
<td>15:00 – 15:10</td>
<td>GLIAL REGULATION OF NEOCORTICAL SYNAPTIC TRANSMISSION: IMPLICATION FOR ALZHEIMER’S DISEASE</td>
<td>Dr. Yuriy Pankratov, University of Warwick, School of Life Sciences, Coventry, United Kingdom</td>
</tr>
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<td>Refreshments provided</td>
</tr>
<tr>
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<td>Good things in small packages: The molecular chaperone action of the small heat shock chaperone proteins</td>
<td>Associate Professor Heath Ecroyd, ARC Future Fellow, School of Biological Sciences, Illawarra Health and Medical Research Institute, University of Wollongong, Australia</td>
</tr>
<tr>
<td>15:40 – 16:00</td>
<td>The role of heparan sulfates in the amyloid pathology of Alzheimer disease</td>
<td>Charlotte Jendresen, Department of Pharmacology, University of Oslo and Oslo University Hospital, Oslo, Norway</td>
</tr>
<tr>
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<td>The role of Pb in AD pathogenesis</td>
<td>Dr. Yansheng Du, Indiana University School of Medicine, Indianapolis, United States</td>
</tr>
<tr>
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<td>The involvement of type-1 interferon signalling and resultant neuroinflammation mechanisms of amyloid beta peptides aggregation in relation to Alzheimer’s disease</td>
<td>Dr. Peter Crack, The University of Melbourne, Melbourne, Australia</td>
</tr>
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<td>Computational studies on the toxicity mechanisms of amyloid beta peptides aggregation in relation to Alzheimer’s disease</td>
<td>Dr Lock Chew, Nanyang Technological University, Singapore</td>
</tr>
<tr>
<td>17:00</td>
<td>Chairman’s Summing Up</td>
<td>Close of Session</td>
</tr>
</tbody>
</table>
# AGENDA

(Invited Talk times include 5 – 10 minutes for question; Oral presentations include 2-3 minutes for questions)

## Day 2: Characterisation and Diagnosis

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00 – 09:35</td>
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</tr>
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</tr>
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<td>Type 2 diabetes mellitus accelerate tau pathology in nonhuman primate</td>
</tr>
<tr>
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<td>Looking for the markers of asymptomatic stage of Alzheimer’s disease in the retina</td>
</tr>
<tr>
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<td>Oral Presentation</td>
</tr>
<tr>
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<td>RETINAL BIOMARKERS FOR AD</td>
</tr>
<tr>
<td>15:15 – 15:25</td>
<td>OXIDATIVE SIGNATURE OF CSF FROM MILD COGNITIVE IMPAIRMENT AND ALZHEIMER DISEASE PATIENTS</td>
</tr>
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</tr>
</tbody>
</table>

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<td>Professor Joan Smith Sonneborn, Emeritus Zoology &amp; Physiology, University of Wyoming, Laramie, United States</td>
</tr>
<tr>
<td>10:40 – 11:00</td>
<td>Is GluN2B-NMDA receptor a good target in treating Alzheimer's disease</td>
<td>Professor Qiang Zhou, Peking University Shenzhen Graduate School</td>
</tr>
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</tr>
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<td>Dr Alejandra Alvarez R, Pontificia Universidad Catolica de Chile, Santiago, Chile</td>
</tr>
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<td>Associate Professor John BJ Kwok, Neuroscience Research Australia, Sydney, Australia</td>
</tr>
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<td>Professor Karl Herholz, University of Manchester, Manchester, United Kingdom</td>
</tr>
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<td>12:30 – 12:50</td>
<td>The role of proliferating astrocytes in Alzheimer’s disease</td>
<td>Dr Magdalena Sastre, Division of Brain Sciences, Hammersmith Hospital, Imperial College London, London, UK</td>
</tr>
<tr>
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<td>Poster viewing</td>
</tr>
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<td></td>
</tr>
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<td>THE USE OF NEUROPEPTIDES OF “ADEMENT” FOR THE DEVELOPMENT DELAY OF THE NEURODEGENERATIVE PROCESSES: THE STUDY ON THE MODEL OF DROSOPHILA MELANOGASTER</td>
<td>Professor Oleksandr Makarenko, Pereyaslav-Khmelnitskiy Pedagogical University named after H.Skovoroda, Kyiv, Ukraine</td>
</tr>
<tr>
<td>14:00 – 14:10</td>
<td>MICRORNA CONTRIBUTION IN A NEW THERAPEUTIC STRATEGY FOR ALZHEIMER’S DISEASE</td>
<td>Ana Viegas, Centre for Neuroscience and Cell Biology, Faculty of Medicine, University of Coimbra, Portugal</td>
</tr>
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<td>Biomedical nanotechnology and Alzheimer’s. Can the disease be reversed?</td>
<td>Professor Christopher Whiteley, National Taiwan University of Science and Technology, Taipei, Taiwan</td>
</tr>
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<td>Potential therapeutic strategies of Cerebrolysin in Alzheimer’s Disease</td>
<td>Dr Hari Shanker Sharma, Uppsala University, Uppsala, Sweden</td>
</tr>
<tr>
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<td>The drug therapy to increase stem cells for treatment of Alzheimer’s disease</td>
<td>Dr. Kiminobu Sugaya, University of Central Florida, Orlando, United States</td>
</tr>
<tr>
<td>15:10 – 15:40</td>
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<td>Refreshments provided</td>
</tr>
<tr>
<td>15:30 – 16:00</td>
<td>Alzheimer’s Disease: a clinical viewpoint</td>
<td>Dr Amit Arora, University Hospital of North Staffordshire, British Geriatrics Society, Stoke On Trent, UK</td>
</tr>
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<td>Psychological treatments for depression and anxiety in dementia and mild cognitive impairment: systematic review and meta-analysis</td>
<td>Dr Vasiliki Orgeta, University College London, London, United Kingdom</td>
</tr>
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<td></td>
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</tr>
</tbody>
</table>
ABOUT THE SPEAKERS

Amit Arora

University Hospital of North Staffordshire, British Geriatrics Society, Stoke On Trent, UK

Dr Amit Arora is a Consultant Geriatrician at University Hospital of North Midlands and a Clinical lecturer at Keele University, UK. He has a keen interest in National and International Health quality and policy for the ageing population and in particular ‘healthy ageing’. He has been Chair of England Council of the British Geriatrics Society and currently chairs the West Midlands Quality Review Service for people living with dementia. He sits on many national committees and has over 100 publications in National and International journals and books.

Jay Amin

University of Southampton, Clinical Neurosciences Division, Memory Assessment and Research Centre, Moorgreen Hospital, Southampton, Hampshire, United Kingdom

Jay Amin completed his medical training in Hampshire before specialising in Old Age Psychiatry. He also works for a dementia clinical trials unit in Southampton. He is now a Clinical Research Fellow funded by Alzheimer’s Research UK and involved in a research study investigating the role of the immune system in Dementia with Lewy bodies and Alzheimer’s Disease.

Olav Michael Andersen

Aarhus University, Aarhus, Denmark

Olav Andersen is associate professor at the University of Aarhus, Denmark. His scientific work focus on understanding intracellular sorting pathways and how trafficking defects may underlie Alzheimer’s disease (AD).

His major findings include identification of sorLA as a neuronal sorting receptor for the Amyloid precursor protein, and determination of the mechanisms how sorLA activity protects against AD using biochemistry, cell biology, and animal model systems. Current research interests aim to understand the regulation of sorLA gene expression, including the correlation between SNPs in the SORL1 gene (encoding sorLA) and AD, as well as to understand the physiological function of sorLA in the developing retina.
Eugenio Barone

*Department of Biochemical Sciences "A. Rossi-Fanelli" - Sapienza University of Rome, Italy*

Eugenio Barone, is Research Fellow at the Dept. of Biochemical Sciences at Sapienza University of Rome and Associate Researcher at the Universidad Autonoma de Chile. He earned the Master degree in Pharmaceutical Chemistry and Technology in 2006 and the Ph.D. in Neuroscience in 2011. His research work focuses on the role of the oxidative stress-induced neurodegeneration with particular attention to the molecular mechanism(s) promoting brain insulin resistance in Alzheimer disease. Despite his young career, he authored 48 publications and he was awarded with prestigious grants from the EU commission and Italian MIUR as well as with international prizes.

Michael Berridge

*The Babraham Institute, Babraham Research Campus, Cambridge, United Kingdom*

Michael Berridge is an Emeritus Babraham Fellow at the Babraham Institute in Cambridge. His main research interest concerns the role of calcium (Ca\textsuperscript{2+}) in cellular control processes. Recently, his attention has focused on the role of Ca\textsuperscript{2+} and Vitamin D in Alzheimer’s disease.

For his work on second messengers Berridge has received numerous prizes, including The Louis Jeantet Prize in Medicine, The Albert Lasker Medical Research Award, The Heineken Prize, The Wolf Foundation Prize in Medicine and The Shaw Prize. In 1998 he was knighted for his service to science.

Anna Colell

*Institute of Biomedical Research of Barcelona, Spain*

Dr. Anna Colell is a full tenured scientist in the department of Cell Death and Proliferation at the Institute of Biomedical Research of Barcelona since 2009. Previously, she trained in mitochondria and cell death signalling at La Jolla Institute for Allergy and Immunology, San Diego (CA). Her main research interests are focused in understanding how changes in brain cholesterol and mitochondrial oxidative stress can contribute to neurodegeneration.
Lock Chew

Nanyang Technological University, Singapore

I received the Degree of Bachelor of Electrical and Electronic Engineering from the National University of Singapore in 1991, the Master of Science in Electrical Engineering from the University of Southern California in 1997 and the PhD in Theoretical Physics in the National University of Singapore in 2004. I am interested in the elucidation of the organizing principles and mechanisms of complex biological systems based on statistical physics, Monte-Carlo, as well as molecular dynamics simulations. My research, in particular, has been focusing on the topic of protein phase transitions, proteins aggregation, and the relation of these processes to the Alzheimer's disease.

Ming Chen

University of South Florida, Tampa, United States

Dr. Ming Chen got his Ph.D. from the State University of New York and Postdoc training at Harvard University. During the course of studies, he has pinpointed the unique roles of Ca2+ signaling and Ca2+-dependent enzymes in the formation of plaques and tangles during aging and deduced the key roles of “risk factors” in the origins of sporadic Alzheimer’s disease (sAD). Based on a comprehensive analysis of the disease features, he propose that sAD must be understood as a senile disorder, not a “discrete disease”, and that “energy and Ca2+ signaling deficits” are the rational drug targets for intervention.

Peter Crack

The University of Melbourne, Melbourne, Australia

Associate Professor Peter Crack heads the Neuropharmacology laboratory in the Department of Pharmacology and Therapeutics at the University of Melbourne. His research interests include the contribution that neuroinflammation plays in the progressoin of both ac #ageing #healthyageing acute neural injury and chronic neural pathologies.

Anthony Simon Don

University of New South Wales, Sydney, NSW, Australia

Anthony Don runs a lipid biochemistry and metabolomics research team at UNSW Australia. For his PhD, completed in 2004, Dr Don was instrumental in the development of a new class of anti-cancer agents that target mitochondrial metabolism in tumours and are now in clinical trials. He undertook postdoctoral research at the Scripps Research Institute, USA, before returning to UNSW Australia to establish a research group. Dr Don employs new mass spectrometry and
biochemical assays for lipid metabolism, in combination with brain bank tissue, to improve our understanding of biochemical changes that pre-dispose to the development of Alzheimer’s Disease.

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**Fabio Di Domenico**  
*Sapienza University of Rome, Italy*

Dr. Fabio Di Domenico is an assistant professor at the Department of Biochemical Science “A. Rossi Fanelli” of Sapienza University of Rome where he obtained his PhD in Biochemistry. He has extensive expertise in proteomics studies applied to neurodegenerative disease and his research contributed highlighting the role of increased oxidative stress and dysfunctional protein degradation systems in the pathogenesis and progression of Alzheimer Disease-like dementia. Lately is focusing his research on seeking the potential biomarker for Alzheimer’s disease.

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**Yansheng Du**  
*Indiana University School of Medicine, Indianapolis, United States*

Dr. Du has a broad background in drug development and animal models in Alzheimer disease and other neurodegenerative disorders, with specific training and expertise in immunization research areas for this application. As a scientist at Lilly, I carried out molecular, cellular and animal research and genotyping data analysis on neurologically aspects of drug development. He laid the groundwork for the proposed research by developing mechanistic and therapeutic studies for Alzheimer’s disease, Prion disease, Hypoxia-induced neuronal injury, Parkinson disease, Amyotrophic Lateral Sclerosis and other neurodegenerative disorders. In addition, Dr. Du successfully administered the projects, collaborated with international/national researchers, and produced many peer-reviewed publications from each project. As an established investigator, he has demonstrated record of successful and productive research projects in an area of high relevance for Alzheimer disease research.

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**Heath Ecroyd**  
*ARC Future Fellow, School of Biological Sciences, Illawarra Health and Medical Research Institute, University of Wollongong, Australia*

Associate Professor Heath Ecroyd is a co-founding member and group leader in the ‘Proteostasis and Disease Research Group’ within the Illawarra Health and Medical Research Institute. His main research focus is the role chaperone proteins plays in preventing the aggregation of proteins associated with neurodegenerative diseases such as Alzheimer’s disease, Parkinson’s disease and Motor Neurone Disease. He has active research programs in (i) the structure-function relationship of the small heat shock chaperone proteins; (ii) the heat shock response pathway and its role in protein homeostasis (proteostasis); and (iii) extracellular proteostasis.
Panteleimon Giannakopoulos,

*University Hospitals of Geneva, Genève, Switzerland*

Born in 1965 in Greece, I obtained my MD degree in the University of Athens in 1989 before completing a full training on psychiatry and psychotherapy in London (Maudsley Hospital and Geneva) as well as postdoc training in Paris (La Pitié-Sâlpetrière Hospital, Federation of Neurology). In 1998, aged 33 years, I have been appointed as associate professor and medical head of the Division of Geriatric Psychiatry of the University Hospitals of Geneva. Later on (2004) I obtained the position of full tenured professor of Psychiatry in the University of Geneva. From 2003 to 2011, I also assumed a parallel position of full professor of Old Age Psychiatry in the University of Lausanne. I have been Chairman of the Department of Psychiatry in Geneva for 10 years. To date, I’m the Medical Director of Forensic Psychiatry and Medical Head of the Division of General psychiatry in The University Hospitals of Geneva. My research field was initially that of the functional neuroanatomy of dementing conditions and may be illustrated by a series of clinico-pathological studies aiming to determine the relative weight of each aging-related lesion in cognitive deterioration.

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**Karl Herholz**

*University of Manchester, Manchester, United Kingdom*

Karl Herholz is Professor in Clinical Neuroscience at the University of Manchester. He leads neuroscience research at the Wolfson Molecular Imaging Centre with particular research interest in the use of positron emission tomography (PET) for early diagnosis and prevention of dementia, imaging of specific transmitter systems and deposition of pathological proteins. He is also Honorary Consultant at Salford Royal Hospital and the Nuclear Medicine Department, Central Manchester Foundation Trust. Before joining Manchester University he worked as a clinical neurologist and professor of neurology at University Hospital and the Max-Planck Institute for Neurological Research in Cologne, Germany.

He has leading roles in several international multicentre PET studies, including Early Diagnosis of Neurodegenerative Diseases within the EU-funded Networks on Diagnostic Molecular Imaging (DiMI), Imaging of Neuroinflammation in Neurodegenerative Diseases (INMiND) and the European Medical Information Framework on Alzheimer’s Disease (EMIF-AD, IMI/FP7). He is also leading the clinical PET imaging workgroup of the Dementia Platform UK and is a member of the Medical Research Council Neuroscience and Mental Health Board. His research has been published in more than 400 research papers (ISI H-index 67) and several books.
Charlotte Jendresen
Department of Pharmacology, University of Oslo and Oslo University Hospital, Oslo, Norway

Charlotte holds a M.Sc. in Human Biology from University of Copenhagen, Denmark. Her interest is in neurodegenerative diseases starting with research on CNS demyelination in cerebral malaria. She moved to Norway in 2012, and is currently in the final stage of her PhD at University of Oslo. Her research focuses on the involvement of heparan sulfate proteoglycans in Alzheimer disease (AD) – particularly with regard to the aggregation, deposition, and spreading of amyloid-beta in the brain. She also studies neuroinflammation in AD focusing on microglial involvement, TREM2, and heparan sulfate proteoglycans.

Andis Klegeris
University of British Columbia Okanagan Campus, Kelowna, British Columbia, Canada

Dr. Andis Klegeris began studying cellular and molecular mechanisms of neurodegenerative diseases during his thesis work at the University Department of Pharmacology, Oxford University, UK. His interest in neuroinflammatory processes led him to the University of British Columbia in Vancouver, Canada, where Dr. Klegeris did his post-doctoral studies. Currently he is an Associate Professor of Pharmacology at the Department of Biology, University of British Columbia Okanagan Campus in Canada. Identification of novel treatment options for neurodegenerative diseases and mechanisms of intercellular signaling between neurons and glial cells are the main research focuses of his laboratory.

Christoph Köhler,
Institute of Anatomy, University of Cologne, Cologne, Germany

Dr. Köhler studied medicine at the Universities of Ulm and Heidelberg/Mannheim, Germany. He completed his doctorate in Anatomy at the University of Heidelberg in 1991 and worked in surgery, general medicine, and psychiatry. Dr. Köhler joined the Department of Neuroanatomy at the University Hospital in Cologne, Germany, in 1999. He is head of a laboratory for histochemistry and teaches medical students in gross anatomy and neuroanatomy. His major research interest is mechanisms of neurodegeneration that are caused by pathological alterations of protein tau.
Umur A. Kayabasi, MD,
Liifemed Health Center, Istanbul


John BJ Kwok

Neuroscience Research Australia, Sydney, Australia

Associate Professor John Kwok was awarded his PhD at the University of Cambridge in 1994. In 2003, he was awarded an R Douglas Wright Biomedical Career Development Award (NHMRC) in 2003 to work on the genetics of Alzheimer's disease. Since 2006, he was recruited to head his own laboratory at Neuroscience Research Australia where he has pursued his interest in the roles of genetics and epigenetics in neurodegenerative diseases. In the past 5 years, Associate Professor Kwok has published 40 peer-reviewed articles, including a commissioned review on the genetics of dementia in the LANCET journal.

Slavica Krantic

UPMC, CNRS, Paris, France

Dr Krantic received her PhD in 1986 (University Paris XI) and was a Post-Doctoral Fellow in the Neuroscience department with Dr. Rémi Quirion (DMHUI, Montréal, Canada) until 1989. In 1990 she got a permanent Researcher position at the Centre National de la Recherche Scientifique (France). In 2008, Canadian Institutes of Health Research has appointed Dr. Krantic as a visiting scientist at McGill University. After her return to France in 2011, she joined the Centre de Recherche des Cordeliers (Paris) where she is the Principal Investigator of the research program aimed on identification of the earliest diagnostic markers for Alzheimer’s disease.

Rishika Kundra

University of Cambridge, St. Johns College, Cambridge, United Kingdom

Ms. Rishika Kundra is a Dr. Manmohan Singh Scholar at St. John's College, University of Cambridge, UK, pursuing her PhD in the department of Chemistry with Prof. Christopher M Dobson. Her work is focussed on understanding the behaviour of inherently metastable, aggregation prone proteins in neurodegenerative disorders like Alzheimer’s and Parkinson’s. She’s also interested in the regulation of these proteins in healthy states and how it is compromised in the face of defective protein homeostasis in ageing and disease.
Isabelle Simoes Loureiro

Cognitive Psychology and Neuropsychology Department, Institute of Health Sciences and Technologies, University of Mons, Belgium

Isabelle Simoes Loureiro is a neuropsychologist and PhD researcher. Her doctoral thesis proposes that lexico-semantic deterioration in Alzheimer’s disease could reverse the acquisition process in childhood. She defends the idea of retregenesis and supports that a better understanding of the similarities and divergences between acquisition and deterioration could bring new lights to the understanding of the semantic memory organization.

Val Lowe

Mayo Clinic Rochester, Rochester, United States

Val J. Lowe, MD is a Professor of Radiology at Mayo Clinic, Rochester, Minnesota, and is the director of the Mayo Clinic Molecular Imaging Resource. He trained in nuclear medicine at Duke University. Dr. Lowe has served on numerous NIH review committees and panels. He has over 300 peer-reviewed publications, several patents and has funding through 22 NIH grants to study imaging.

Dr. Lowe and collaborators at Mayo Clinic are evaluating the utility of metabolic (FDG PET), amyloid (PiB PET) and tau PET multimodality brain imaging as part of a larger research project at Mayo Clinic on the development of neurodegenerative disease in the aging population.

Oleksandr Makarenko

Pereyaslav-Khmelnitskiy Pedagogical University named after H.Skovoroda, Kyiv, Ukraine

Makarenko O.M. has taken PhD degree at the age of 30 at the Moscow Medical Stomatological Institute, M.D. degree at the age of 40 at the Institute of higher nervous activity in Moscow. He carries out his post-dock researches at the Institute of Higher Nervous Activity and T. G. Shevchenko National University of Kyiv. He is a Professor of the Psychology Department, the author of more than 100 articles in reputed journals and 5 monographs (Lambert Academic Publishing).

Vasiliki Orgeta

University College London, London, United Kingdom

Dr Vasiliki Orgeta is a Senior Research Associate at the Division of Psychiatry, University College London and a Senior Research Fellow of the Alzheimer’s Society. She joined UCL in 2008, and since then has been involved in systematic reviews of psychological treatments for people with
dementia, and has led several psychosocial trials in the field. She currently leads the development of a psychological intervention to prevent depressive symptoms in people with early-stage dementia, work funded by the Alzheimer’s Society. She also leads a new MSc in Dementia and Mental Health, at University College London.

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**Bettina Platt**

*University of Aberdeen, Institute of Medical Sciences, Foresterhill, Aberdeen, Scotland, United Kingdom*

Professor Bettina Platt, FSB, holds the Chair in Translational Neuroscience at the University of Aberdeen and has worked in the field of neurodegenerative diseases for over 18 years. She is heading a multi-disciplinary research team investigating brain function from the molecular to the functional level, with a particular emphasis on translational techniques. She currently leads the Scottish Alzheimer Research UK (ARUK) network and co-leads the Alzheimer’s Society-funded Scottish Doctoral Training Centre. She is also a member of the ARUK Grant Review Board, the Alzheimer’s Society Grant Advisory Board and the Scottish Dementia Research Consortium.

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**Natalya Ponomareva**

*Research Center of Neurology, Russian Federation*

Dr. Ponomareva received her MD and PhD from the Moscow Medical Academy. She studied pathophysiological mechanisms underlying aging-related neurodegenerative diseases such as Alzheimer's disease, Huntington Disease and Parkinson's Disease using neurophysiological approach, with a specific focus on the role of genetic factors, stress and neuroimmune interaction in functional brain alterations. In collaboration with Prof. Evgeny Rogaev and his laboratories (University of Massachusetts Medical School and Vavilov Institute of General Genetics, Moscow) Dr. Ponomareva has been conducting research aimed at determining the neurophysiological endophenotypes related the common Alzheimer’s risk genetic variants, including variants in the ApoE and CLU genes.

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**Yuriy Pankratov**

*University of Warwick, School of Life Sciences, Coventry, United Kingdom*

Dr Yuriy Pankratov is an Associate Professor of Neuroscience in the University of Warwick. His group carries our a fundamental research into cellular neuroscience, in particular synaptic transmission and glia-neuron signalling. In recent years, his research took a special focus on the impact of ageing on the brain function.
Andrew Randall

University of Exeter Medical School, Exeter, Devon, United Kingdom

Andrew Randall is Professor in Applied Neurophysiology at Exeter University Medical School. He is a neurophysiologist who has worked on both fundamental studies of neural function and how diseases impact upon neural function, including a substantial body of work on models of human neurodegenerative diseases. He has worked both in academia and in the pharmaceutical industry and has published over 140 papers with over 12000 citations. He directs the Alzheimer’s Society Doctoral training centre at Exeter University and holds a Royal Society Industry Fellowship which supports his collaborative work with Eli Lilly.

Jane Rylett

Schulich Medicine & Dentistry, London, Ontario, Canada

Dr. Jane Rylett is a cellular and molecular neurobiologist recognized internationally for contributions in the areas of cholinergic neuron function, aging brain and Alzheimer’s disease. Her group carries out mechanistic studies on neurochemical changes in aging brain, responses of neurons to changes in the brain microenvironment and susceptibility to dementia. She is Professor and Chair of the Department of Physiology and Pharmacology at the University of Western Ontario in London, Ontario, Canada and a Scientist in the Molecular Medicine Group at Robarts Research Institute. She is also leader of the Primary Prevention Theme of the Canadian Consortium on Neurodegeneration in Aging.

Stefan Rüdiger

Utrecht University, Utrecht, Netherlands

Stefan Rüdiger graduated in Chemistry at Heidelberg University and obtained the PhD from Freiburg University. After a postdoc with Sir Alan Fersht (Cambridge University and Medical Research Council, he started his own group in Utrecht in 2004. His work centres on the molecular mechanisms or protein folding and chaperoning in the cell. A particular focus is on understanding the mechanism of the cellular chaperone machine on protein aggregation in neurodegenerative diseases.
Angela Scibetta
Ronchis, Italy

She was born on 11th March 1967. She lives in Italy, district Udine. She got a degree in medicine, in the University of Catania, passed with 110/110.

She starts working on June 1995 as tourist doctor and general medicine. On 2011 she got a degree in psychotherapy, passed with 30/30, ISP of Rome.

Hobby: Neuropsychology, Hypnosis, Dementia.

Cynthia M. Stonnington
Mayo Clinic College of Medicine, Scottsdale, United States

Dr. Cynthia Stonnington is Chair of Psychiatry & Psychology at Mayo Clinic in Arizona. She completed medical school at Mayo Medical School in Rochester, Minnesota, her residency training in Psychiatry at Stanford University Medical Center, and a Clinical Research Fellowship in brain imaging at University College London’s Wellcome Trust Centre for Neuroimaging. An Associate Professor of Psychiatry, her research interests include: 1) Applying neuroimaging methods to predict cognitive decline; 2) Exploring the neuropsychiatric underpinnings of psychosomatic illness; and 3) Identifying and testing interventions that can increase resilience in the face of illness or risk for illness.

Adrien W. Schmid
Ecole Polytechnique Fédérale de Lausanne (EPFL), Proteomics Core Facility, Life Sciences, Lausanne, Switzerland

Dr. Adrien Schmid is a trained neurophysiologist from the Swiss Federal Institute of Technology in Lausanne, Switzerland (EPFL), were he leads several projects in the field of neurodengenerative diseases. He has developed expertise in the field targeted and quantitative mass spectrometry which he applies for new biomaker discovery studies in the research field of Alzheimer's and Parkinson’s disease.

Kiminobu Sugaya
University of Central Florida, Orlando, United States

Dr. Kiminobu Sugaya is a full professor of medicine and a director of stem cell laboratory for Burnett School of Biomedical Science, College of Medicine, University of Central Florida since 2004. He is a Director of Multidisciplinary Neuroscience Alliance, and a Chair of Central Florida Chapter of Society for Neuroscience. He is also founder and chair of Progenicyte, which is a biotech
company holding his more than 35 patents. He is developing regenerative medicine for neurodegenerative diseases, such as Alzheimer’s disease and Parkinson’s disease with using induced pluripotent stem cells and small molecular compound to increase endogenous stem cells.

Louise Serpell
University of Sussex, Falmer, United Kingdom

Professor Louise Serpell has been working on understanding the molecular mechanisms that lead to Alzheimer’s disease for over 20 years. She co-chairs the Dementia Research group at the University of Sussex and leads a research group who work to discover how Abeta and tau are involved in Alzheimer’s.

Magdalena Sastre
Division of Brain Sciences, Hammersmith Hospital, Imperial College London, London, UK

Dr. Magdalena Sastre graduated in Sciences and did her PhD in Biology and Health Sciences at the University of the Balearic Islands, Spain. She trained in Neuroscience in the USA (Cornell University and New York University) and in Germany (Universities of Munich, Bonn and Frankfurt).

She is interested in the molecular mechanism by which inflammation affects neurodegenerative diseases, in particular Alzheimer’s disease.

Her scientific contributions include the study of the intracellular signalling cascade of the amyloid precursor protein and how it affects its cleavage and the formation of amyloid-β peptide. In addition, she has focused her research in the use of anti-inflammatory drugs as potential therapy for neurodegenerative diseases, and in the cofactors of the peroxisome proliferator-activated receptor-γ (PPAR-γ).

Michal Schwartz
The Weizmann Institute of Science, Rehovot, Israel

Schwartz is a Professor of Neuroimmunology, holding The Maurice and Ilse Katz Professorial chair in Neuroimmunology, at the Weizmann Institute of Science Israel. She focuses on the role of innate and adaptive immunity in central nervous system plasticity in health and disease. She is the world pioneer in demonstrating that circulating immune cells are needed for CNS maintenance and repair. Her publications (H factor 90; Google Scholar), include numerous peer-reviewed articles and invited reviews, many of which appear in the most highly ranked journals. Schwartz has
received a number of prestigious awards and is the elected incoming president of the International Societies for Neuroimmunology (2016).

Hari Shanker Sharma

*Uppsala University, Uppsala, Sweden*

Hari Shanker Sharma, Director of Research (International Experimental Central Nervous System Injury & Repair, IECNSIR), University Hospital, Uppsala University is Professor of Neurobiology (MRC), Docent in Neuroanatomy (UU) and is currently affiliated with Department of Surgical Sciences, Division of Anesthesiology and Intensive Care Medicine, Uppsala University, Sweden. Dr. Sharma on his research on brain pathology and neuroprotection in different models received the prestigious awards from The Laerdal Foundation of Acute Medicine, Stavanger, Norway, in 2005 followed by Distinguished International Scientists Collaboration Award by National Institute on Drug Abuse (NIDA), Baltimore, MD (2006–2008). His recent work on 5-HT3 receptor mediated neuroprotection in morphine withdrawal induced neurotoxicity won the coveted prize of Best Investigator Award 2008 and Best Scientific Presentation by European Federation of the International Association for Study of Pain (ISAP).

Joan Smith Sonneborn

*Emeritus Zoology & Physiology, University of Wyoming, Laramie, United States*

Joan Smith Sonneborn, a Professor Emeritus from the Zoology and Physiology Department at the University of Wyoming, focuses on how threshold levels of stress, including exercise stress, can trigger beneficial rejuvenation and anti aging effects on the brain and body and disease intervention. Her 2015 presentations include current research findings in Pro-survival neuron therapy for Alzheimer’s Disease, and Novel Drugs for HIV intervention. Intervention in aging and related diseases have been her passion especially using animal model systems’ strategies to tap into our natural reserves to tolerate challenges and preserve or activate energy systems. Her education includes her BA from Bryn Mawr College, and PhD from Indiana University, with postdoctoral training at Brandeis University and University of California, Berkeley.
Antonella Tramutola

Department of Biochemical Sciences "A. Rossi-Fanelli" - Sapienza University of Rom, Italy

Antonella Tramutola, is Research Fellow at the Dept. of Biochemical Sciences at Sapienza University of Rome. She earned the Master degree in Biological Science with specialization in Neurobiology in 2009 and the Ph.D. in Neuroscience in 2013. Her research work focuses on the role of the oxidative stress-induced neurodegeneration with particular attention to the molecular mechanism(s) that could contribute to the pathomechanisms of the Down Syndrome, in particular those responsible for the onset of Alzheimer Disease neuropathology.

Annalena Venneri

Department of Neuroscience, University of Sheffield, Royal Hallamshire Hospital, Sheffield, UK

Professor Venneri joined the University of Sheffield in 2011 as Professor of Clinical Neuropsychology and is leading the dementia research programme focused on early and differential diagnosis of Alzheimer’s disease. Her research interests include: identifying cognitive and imaging biomarkers of neurodegeneration; optimizing neuroimaging methods for the evaluation of pharmacological and non pharmacological treatment in Alzheimer’s disease and other neurodegenerative disorders; studying the influence of modifiable lifestyle risk factors to prevent cognitive decline. She is also a Honorary Consultant for Sheffield Teaching Hospitals NHS Trust and the Scientific Director of the IRCCS San Camillo Hospital, Venice, Italy. She is a member of the editorial board of several neuroscience journals and member of the Scientific Board of SINDEM, the Italian Neurological Society – Dementia

Ana Viegas,

Centre for Neuroscience and Cell Biology, Faculty of Medicine, University of Coimbra, Portugal

Ana Viegas is a PhD student from the Inter-University Doctoral Programme, from the Faculty of Medicine of the University of Coimbra, Portugal. Currently, Ana is interested in the neuroscience translational research field, with a particular interest in neurodegenerative disorders, such as Alzheimer’s disease (AD). She is especially focused on understanding the role of specific microRNAs during the progression of the disease and how its modulation can contribute for a new therapeutic strategy for AD or other neurodegenerative disorders.
Latha Velayudhan

Oxleas NHS Foundation Trust and University of Leicester, United Kingdom

Dr Latha Velayudhan is a Consultant Old Age Psychiatrist with Oxleas NHS Foundation Trust and Honorary Reader with University of Leicester. She trained in Old Age Psychiatry at the South London & Maudsley NHS Foundation Trust, UK and completed MD(Res) at the Institute of Psychiatry, Kings College London. Her main research includes clinical and biological markers for Alzheimer’s disease, early onset dementia and risk of dementia with diabetes. She has published widely in the areas of dementia and is associate editor of Journal of Alzheimer’s disease.

Robert Vassar

Feinberg School of Medicine, Northwestern University Interdepartmental Neuroscience, Chicago, IL, USA

Robert Vassar, Ph.D., is Professor of Cell and Molecular Biology at the Feinberg School of Medicine, Northwestern University. He received his Ph.D. in Molecular Genetics and Cell Biology from the University of Chicago in 1992 with Dr. Elaine Fuchs and did his post-doctoral research with Dr. Richard Axel at Columbia University. Dr. Vassar joined Amgen, Inc., in 1996 where he co-discovered BACE1, a prime Alzheimer’s disease drug target. After leaving Amgen in 2001, Dr. Vassar joined Northwestern where he continues to investigate the role of BACE1 in health and Alzheimer’s disease.

Christopher Whiteley

National Taiwan University of Science and Technology, Taipei, Taiwan

Emeritus Professor Biochemistry; Rhodes University; Grahamstown; South Africa. Distinguished; Research Professor, National Taiwan University Science & Technology; Visiting International Professor in Enzymology; School Bioscience & BioEngineering; South China University Technology; Guangzhou, China; 2007-2012; Visiting Research Scientist, Dept Chemical Engineering, National Taiwan University, Taipei, Taiwan, 2004; Visiting Professor of Biochemistry; Institute Biomedical Technology; Veterans General Hospital; Yang Ming University; Taipei, Taiwan; Visiting Professor of Enzymology & Organic Synthesis; Oregon State University; Corvallis, Oregon, USA; Visiting Professor of Organic Synthesis; University British Columbia; Vancouver, Canada; Int’nl Brain Research Organisation; Int’nl Society for Neurochemists (ISN); South African Society for Biochemistry and Molecular Biology.
Qin Wang

University of Alabama at Birmingham, Birmingham, United States

Dr. Qin Wang is an Associate Professor in the Department of Cell, Developmental and Integrative Biology at the University of Alabama, Birmingham. She graduated from Beijing Medical University in 1992 and acquired a PhD degree from University of Iowa in 1999. Her research focuses on understanding regulatory mechanisms fine-tuning GPCR response sensitivity and specificity and translating this knowledge into improved therapeutic approaches for disease treatment. She has published over 50 scientific articles on high profile journals including Science, served as reviewers and on editorial board for several journals, and edited a book on adrenergic receptor biology.

Zhiming Zhang

University of Kentucky College of Medicine, Lexington, United States

Dr. Zhiming Zhang is an Associate Professor in the Department of Anatomy and Neurobiology in the University of Kentucky College of Medicine. Dr. Zhang has been working with neurodegenerative diseases such as Parkinson’s and Huntington’s diseases for over 25 years and more recently, in collaboration with Dr. Yue at Wincon TheraCells Biotechnologies Co., Ltd., has been interested in the role of type 2 diabetes mellitus on dementia and acceleration of AD-like pathology in aged cynomolgus monkeys. His team is trying to develop a new model of AD in diabetic monkeys and screen new therapeutic aged to slowdown AD pathology.
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