

SYMPOSIUM ATP1A3 IN DISEASE

FROM GENE MUTATIONS TO NEW TREATMENTS

Brussels, Belgium, 10 - 11 December 2012

Organizers

European Network for Research on Alternating Hemiplegia & Duke University

Program Committee

Chairs: David Goldstein, Duke University, United States
Tsveta Schyns, ENRAH, Belgium

Alexis	Arzimanoglou	University Hospitals of Lyon, France
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Poul	Nissen	Aarhus University, Denmark
Laurie	Ozelius	Mount Sinai School of Medicine, NY, United States
Bente	Vilsen	Aarhus University, Denmark
Arn	v/d Maagdenberg	Leiden University Medical Centre, the Netherlands

Registration

To participate in the Symposium, please, complete the [Participant registration Form](#).

Deadline for registration is 1st December 2012.

Venue

Basil & Co Brussels Louise Seminar, Avenue Louise 156, 1050, Brussels ,
Belgium

[Venue Map](#).

PROGRAM

Monday, December 10th, 2012

Opening Session

Chairs: Tsveta Schyngs and David Goldstein

10:00 Registration Opens

10:30-10:45	Welcome	<i>Tsveta Schyngs</i>
10:45-10:55	Family Foundations involvement for AHC international research	<i>Dominique Poncelin</i>
11:55-11:05	The parents perspective	<i>Sigurður Hólmar Jóhannesson</i>
11:05 -11:35	Genetics of rare disease, application of NGS in clinical care	<i>David Goldstein</i>

Introduction to Alternating Hemiplegia of Childhood

Chair: Brian Neville

11:35-11:55	Overview of AHC	<i>Mohamad Mikati</i>
15:55-12:10	Is AHC a progressive disease?	<i>Brian Neville</i>
12:10-12:20	Discussion	

12:20-13:00 Lunch

AHC Genetics

Chair: Giovanni Neri

13:00-13:15	ATP1A3 and AHC: The Nature Genetics research group	<i>Erin Heinzen</i>
13:15-13:30	Identifying the gene associated with AHC: the Lancet Neurology research group	<i>Hendrik Rosewich</i>
13:30-13:45	ATP1A3 mutations in sporadic cases from the I.B.AHC Biobank and Clinical Registry	<i>Fiorella Gurrieri</i>
13:45-14:00	ATP1A3 mutations in sporadic and familial AHC cases from the Utah registry	<i>Sandra P. Reyna</i>
14:00-14:15	Identification of ATP1A3 mutations by exome sequencing as the cause of AHC in Japanese patients	<i>Atsushi Ishii</i>
14:15-14:30	Phenotypic analysis of AHC patients with ATP1A3 mutations: Preliminary results.	<i>Eleni Panagiotakaki</i>
14:30-14:45	Identifying fields for future clinical research in AHC	<i>Alexis Arzimanoglou</i>

Roundtable Discussion
Clinical genetic correlations and search for new genes for AHC

Moderators : Arn V.D. Maagdenberg and Alexis Arzimanoglou

14:45-15:45

- Key challenges
- Directions moving forward
- Collaborative groupings
- Active support and collaboration to researchers in the field of AHC and related diseases - *Filippo Franchini*

15:45- 16:00

Break/Refreshments

Rapid-Onset Dystonia-Parkinsonism

Chair: Mohamad Mikati

16:00-16:20

AHC versus Rapid-Onset Dystonia-Parkinsonism:
allelic disorders and a phenotypic spectrum

Knut Brockmann

16:20-16:40

Expanded RDP phenotype: motor and non-motor
features

Allison Brashear

16:40-17:00

Dystonia phenotype, circuitry, and, physiology

Mark Edwards

17:00-17:20

Cerebellar dysfunction in RDP

Kamran Khodakhah

17:20-17:40

Imaging in Dystonia in general

Kristina Simonyan

17:40-18:00

The genetics of Dystonia

Laurie J. Ozelius

18:00-19:00

Discussion and Refreshments

19:00-22:00

Dinner

Dinner talk
From genetics to therapy:
The story of neonatal diabetes

Frances Ashcroft

Tuesday December 11th, 2012

Functional Studies of the Na/K ATPase – Structure/Function

Chair: David Goldstein

9:00-9:20	Genes and transgenic models in migraine: Lessons for AHC?	<i>Arn V.D. Maagdenberg</i>
9:20-9:40	Structure, function, and biological roles of Na, K-ATPase isoforms in excitable tissues	<i>Kathy Sweadner</i>
9:40-10:00	Insights to disease mechanisms from structural studies of Na ⁺ , K ⁺ -ATPase and related ion pumps	<i>Poul Nissen</i>
10:00-10:20	Functional consequences of alpha-3 Na, K-ATPase mutations at the molecular and cellular levels	<i>Bente Vilsen</i>
10:20-10:40	Cell biological and mutational studies of Na, K-ATPase, insect cell expression system	<i>Jan Koenderink</i>
11:40-11:00	Functional and proteomic studies in platelets from AHC patients reveals a lysosomal granule defect	<i>Michela Di Michele</i>
11:00-11:20	Coffee and refreshments	

Functional Studies of the Na/K ATPase .Electro Physiology & in vivo work

Chair: Sophie Nicole

11:20-11:40	Electrophysiological studies in oocytes of disease mutations in atp1a2 and 3.	<i>Thomas Friedrich</i>
11:40-12:00	Electrophysiological studies in oocytes of Na, K-ATPase mechanisms	<i>Hanne Poulsen</i>
12:00-12:20	Electrophysiology of Na, K-ATPase	<i>David Gadsby</i>

12:20-13:30	Lunch break	
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13:30-13:50	A Mouse Model for ATP1A3-related Alternating Hemiplegia of Childhood	<i>Steven Clapcote</i>
13:50-14:10	Increased Susceptibility to Cortical Spreading Depression in the Mouse Model of Familial Hemiplegic Migraine Type 2	<i>Giorgio Casari</i>
14:10-14:30	Zebrafish and mouse models of atp1a2 and atp1a3	<i>Karin Lykke-Hartmann</i>
14:30-14:50	Mania-like behaviour induced by genetic dysfunction of the neuron-specific Na ⁺ ,K ⁺ -ATPase $\alpha 3$ sodium pump	<i>Greer S. Kirshenbaum</i>

**Roundtable Discussion
Functional Biology of ATP1A3 and ATP1A3 Mutations**

Moderators : Poul Nissen and Bente Vilsen

14:50-15:30	<ul style="list-style-type: none">• Key challenges• Directions moving forward• Collaborative groupings
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**Roundtable Discussion
Collaborations and Funding**

Moderators: Tsveta Schyns and David Goldstein

15:30-16:20	<ul style="list-style-type: none">• Key challenges• Directions moving forward• Collaborative groupings• Outcomes of the Symposium
16:20-16:30	Closing message from the AHC Community - <i>Jeff Wuchich</i>
16:30	End of the meeting

Speakers and Chairs

Alexis Arzimanoglou

Associated Professor of Neurology and
Child Neurology, University Children's
Hospital of Lyon, France

Frances Ashcroft

The Royal Society GlaxoSmithKline
Research Professor
University Laboratory of Physiology
Oxford and Fellow of Trinity College,
Oxford University, United Kingdom

Allison Brashear

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Filippo Franchini

I.B.AHC Project Manager
Board of Advisors of A.I.S.EA
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Thomas Friedrich

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David B. Goldstein

Professor & Director Center for Human
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Board member of ENRAH
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Aarhus University, Denmark

Mohamad Mikati

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Duke University
United States

Giovanni Neri

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Università Cattolica del S Cuore
Rome, Italy

Brian Neville

Emeritus Professor of Childhood Epilepsy
UCL Institute of Child Health
United Kingdom

Sophie Nicole

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Hôpital Femme Mere Enfant
Hospices Civils de Lyon
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Dominique Poncelin

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Tsveta Schyys-Liharska

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Founder and Board Member of ENRAH
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Jeff Wuchich

President of the AHC Foundation,
United States

PARTICIPANT REGISTRATION FORM

Symposium ATP1A3 in disease
10 - 11 December 2012, Basil & Co Brussels Louise, Belgium

Please, use CAPITAL LETTERS or TYPE and return this form latest 1 December 2012 to:
ENRAH Brussels Office,
Email : ts@enrah.net Tel. +32 2 325 86 94

Registration Details

Mr. Ms. Dr. Prof.

Family Name: ----- First Name: -----

Position: ----- Department: -----

Organisation/Company: -----

Address: -----

Zip code: ----- Town: ----- Country: -----

Phone: ----- Email: -----

Specific diet requirements (vegetarian, allergies ...): -----

Registration Fee

The registration fee covers the Symposium brochure, coffee breaks and lunches, and dinner on Monday 10 December

- Standard € 500.00
- Reduced Registration Fee * € 300.00

* For Health professionals and non-profit organisations registered before 10 November 2012

Method of Payment:

Bank transfer to:

ENRAH, Bank: Easybank AG, Quellenstraße 51-55, A-1100 Vienna, Austria

IBAN: AT511420020010398003 BIC: EASYATW1.

Billing Information (if different from above):

Cancellation Policy

All cancellations must be in writing. Cancellations received before 1 December 2012 are subject to a charge of 25% of the registration fees for reservation costs. After 1 December 2012 full payment will be requested and refunds will not be provided. Transfer of the registration to other persons is at no extra cost.

Privacy

By filling out the registration form, the participant gives consent that ENRAH can process the data provided within the framework of the Symposium This includes, all handling needed for the applicant's participation at the event and for the drafting of a list of participants which will be distributed at the Symposium.

Important

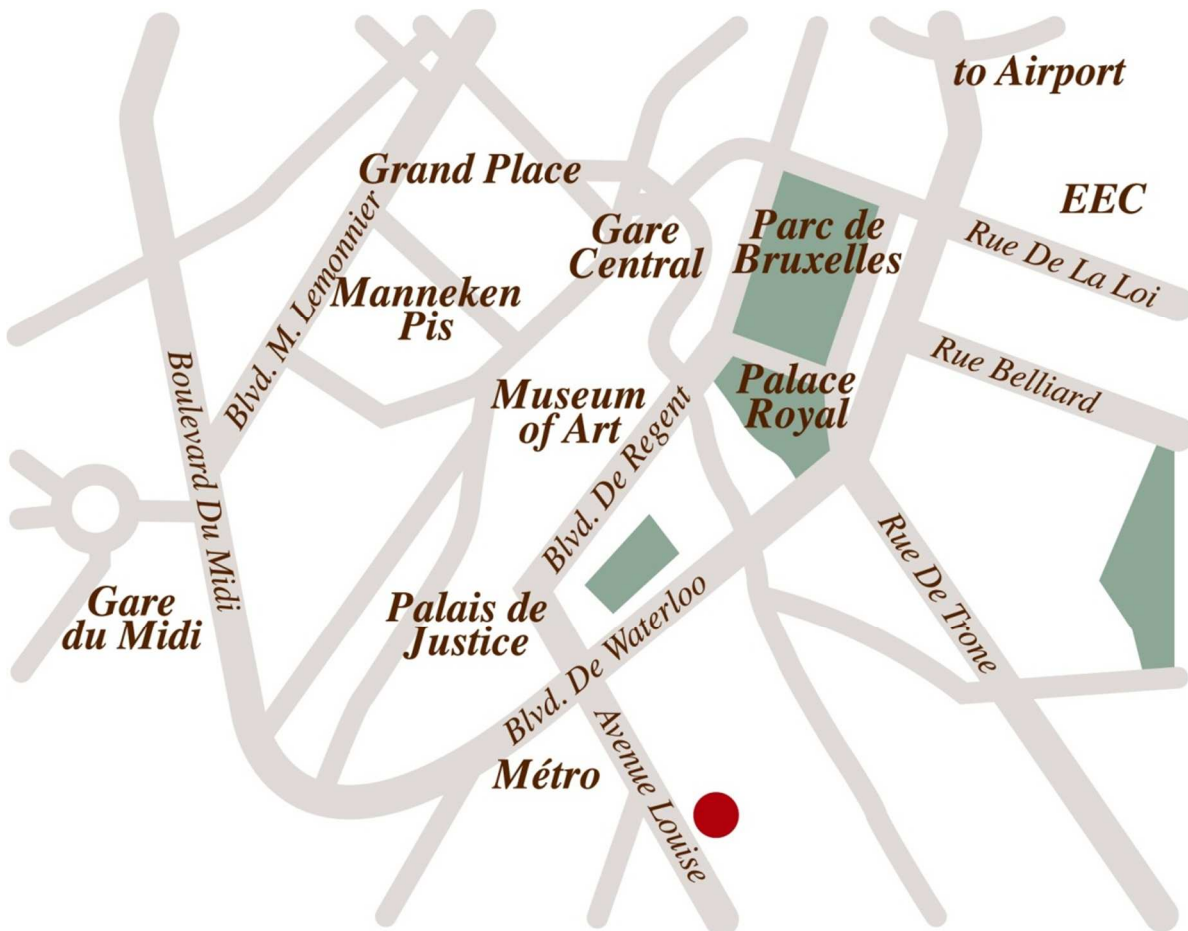
Written confirmation will be sent after the payment has been received. If you have not received your confirmation within five working days, please contact the ENRAH office.

VENUE MAP


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