

SdeBokerEpilepsy Genetics Meeting December 12th-15th, 2013
& Young Researchers in Epileptology-Meeting 2013
- Program -

Thursday Dec 12th

8:30 AM	Registration
9:00 – 9:30AM	Welcome to Be'er Sheva <i>Alon Friedman, Zaid Afawi, Amos Korczyn, Ingo Helbig</i>

Session 1 – Epilepsy& Epilepsy Genetics in the Middle East

(Chairs: XXX, XXX)

This session should give an overview of the challenges of epilepsy in Israel and Palestine. Furthermore, should present the state of epilepsy genetics in Israel, particularly with respect to the Israel Epilepsy Family Project, which was started approximately a decade ago and continues today. These presentations should lead to a discussion on the transformation of the Israel Epilepsy Family Project from individual recruitment to a professional biobank serving the international neurogenetics community.

9:30 AM – 1:30 PM	
9:30 – 9:50 AM	Epilepsy in Israel <i>Ilan Blatt (Tel Aviv, Israel)</i>
10:00 – 10:20AM	Epilepsy in Palestine XXX
10:30 – 10:50 AM	The Israel Epilepsy Family Project – the 1st decade <i>Samuel F. Berkovic (Melbourne, Australia)</i>
11:00 – 11:20 AM	The Israel Epilepsy Family Project – moving ahead <i>Karl-Martin Klein (Marburg, Germany)</i>
11:30 – 11:50 AM	Epilepsy genetics in Israel and Palestine– the recruitment pipeline <i>Zaid Afawi (Be'er-Sheva, Israel)</i>
12:00 – 12:20 AM	Epilepsy genetics in Israel and Palestine– what do we need? XXX
12:30 AM – 1:30 PM	Lunch

Session 2 – The big picture in epilepsy genetics

(Chairs: XXX, XXX)

According to the “this is all you have to know”, these focused presentations will provide you with the latest development in the field, given by expert clinicians and scientists.

1:30 – 4:00 PM	
1:30 – 1:50 PM	The genetics of idiopathic generalized epilepsies <i>Holger Lerche (Tubingen, Germany)</i>
2:00 – 2:20 PM	The genetics of idiopathic focal epilepsies with Rolandic spikes <i>Johannes Lemke (Bern, Switzerland)</i>
2:30 – 2:50 PM	The genetics of rare epilepsy syndromes <i>Sarah Weckhysen (Antwerp, Belgium)</i>
3:00 – 3:20 PM	The genetics of syndromal and metabolic epilepsies <i>Tali Sagie (Holon, Israel)</i>
3:30– 4:00PM	Coffee break

Session 3 – More than just sequence: epigenetics in epilepsy

(Chairs: XXX, XXX)

Epigenetic mechanisms have only recently been introduced to the field of epilepsy genetics. This session will provide an overview on the different mechanisms of gene regulation and summarize findings with regards to epilepsy.

4:00 – 5:30 PM	
4:00– 4:20 PM	Epigenetics: an introduction <i>Ramon Birnbaum (Be'er-Sheva, Israel)</i>
4:30 – 4:50 PM	Methylation and histon acetylation: epigenetic mechanisms in epilepsy <i>Katja Kobow (Erlangen, Germany)</i>
5:00 – 5:20 PM	Gene regulation and epilepsy: the role of microRNAs <i>Noam Shomron (Tel Aviv, Israel)</i>
5:30 PM –	Moving to Sde Boker & Dinner

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Friday, Dec 13th

Session 4 – Methods and techniques, a hand-on session

(Chairs: XXX, XXX)

The aim of this session is to provide an easy-to-follow introduction to modern methods applied to epilepsy genetics. This session does not require previous knowledge or expertise, but it aimed at clinicians and scientist with a general interest. You will understand things you never understood before.

9:00 AM –2:00 PM	
9:00 – 9:30 AM	The apple and the tree – linkage analysis <i>Bobby Koeleman (Utrecht, Netherlands)</i>
10:45 – 11:15 AM	G-WHAT? – Genome-wide association studies <i>Lior Greenbaum (Jerusalem, Israel)</i>
11:30- 12:00 AM	Missing bits and pieces – CNV analysis <i>Dennis Lal (Cologne, Germany)</i>
12:15 – 12:45 AM	BAM , here is your exome – NGS analysis <i>Arvid Suls (Antwerp, Belgium)</i>
1:00–2:00 PM	Lunch

Impulse: Ethical aspects of genetic research

(Chairs: XXX, XXX)

Given the fast development of new techniques, ethical aspects of genetic research are becoming increasingly difficult and demanding: not everything that is possible might be good; should everything be allowed - or what should be allowed; what do we need to tell patients about our research. Within this keynote lecture, Sara Kivity will give an overview on possible caveats and summarize current discussions.

2:00 – 2:30 PM	
2:00 – 2:30 PM	Infinite possibilities and increasing demands: Ethical aspects of genetic research <i>Rivka Karmi (Be'er-Sheva, Israel)</i>

Session 5 – Genetics and beyond

(Chairs: XXX, XXX)

During this session, we will explore the research fields connected with genetics, namely physiology and imaging. In the near future, genetics will be fully embedded in other, emerging fields of science and will represent an interesting tool to understand a broad range of mechanisms related to neurological disease.

2:45 – 4:00 PM	
2:45 – 3:05 PM	Genetic imaging <i>Michael Siniatchkin (Frankfurt, Germany)</i>
3:15 –3:35 PM	Genetics and imaging of the blood-brain barrier <i>Alon Friedman (Be'er-Sheva, Israel)</i>
3:45 – 4:05 PM	A common <i>SCN1A</i>splice site polymorphism modifies the effect of carbamazepine on cortical excitability - a pharmacogenetic TMS-study <i>Felix Rosenow (Marburg, German)</i>
4:15 – 4:45 PM	Coffee break and discussions

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Session 6 – The new borderland

(Chairs:XXX, XXX)

Even though the term “Borderland of epilepsy” was coined by Gowers in 1907 when referring to faints, vagal attacks, vertigo, migraine or sleep symptoms, it has gotten a new meaning due to recent findings in neurogenetics. Even though initially thought to be distinct, there is a large overlap with genetic risk factors predisposing to autism, intellectual disability and schizophrenia. This session will focus on other neurodevelopmental disorders that may be part of the ongoing family recruitment.

4:45 – 7:00PM	
4:45–5:05PM	Genetics of autism spectrum disorder <i>Sagiv Shifman (Jerusalem, Israel)</i>
5:15 – 5:35 PM	Autism and epilepsy: The clinical and neurobiological phenotype derived from Autism-Spectrum Disorder research <i>Christine Freitag (Frankfurt, Germany)</i>
5:45 – 6:05PM	Connectivity in autism and epilepsy <i>Ilan Dinstein (Be'er-Sheva, Israel)</i>
6:15 – 6:35PM	The epilepsy-autism overlap – joining forces? <i>Yoav Kohn (Jerusalem, Israel)</i>
6:45 – 7:00PM	Panel discussion
7:00PM –	Dinner

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Saturday Dec 14th - Young Researchers in Epileptology

Session 7: Young Researchers Meeting

(Chairs: Lior Greenbaum, Sarah v. Spiczak)

This part of the SdeBoker meeting is dedicated to Young Researchers and a continuation of the 2012 Young Researchers' Meeting that was held at the University of Kiel. The day will have three parts, (A) a presentation of 8-10 research projects pursued by Young Investigators, (B) a hands-on session where Young Investigators will work with the workshop participants on questions of career planning and (C) a statement from the clinician about clinical implications of genetic research. Everybody joining the workshop will be invited to present own projects and work-in-progress either by giving a short oral presentation or by presenting a poster. In addition, everybody is asked to prepare 2-3 questions for the experts. In addition to the scientific program, there will be time for getting to know each other, exchange of knowledge and experiences in epilepsy research and for having fun together.

Part A –Presentation of Projects: A brain storming session

8:30 AM – 1:00 PM	
8:30 – 8:45 AM	Introduction <i>Lior Greenbaum, Sarah v. Spiczak</i>
8:45 – 9:15 AM	A life-long career in epilepsy genetics: what can we learn from the experienced? <i>Eva Andermann (Montreal, Canada)</i>
9:15– 12:30 AM (10:15 –10:30 Coffee break)	Presentations by Young Researchers ~ 10 presentations
12:30 AM –1:30 PM	Lunch& Posters

Part B –Group workshops: So, you want to be a scientist?

1:30 – 5:00 PM	
1:30 – 2:00 PM	Motivational talk <i>Ingo Helbig</i>
2:00 – 3:30 PM	Plan, perform, publish: how to set up a project in epilepsy research <i>Round table: Young Researchers asking the experienced:</i> - How to plan your project - How to deal with ethical aspects - How to finance your project - How to find partners for your project - How to publish your project - ... <i>Discussion: E. Andermann, S. Berkovic, A. Friedman, B. Koeleman, A. Korczyn, H. Lerche,...</i>
3:30 – 4:30 PM	Coffee Break& Posters

Part C –Back to the bedside: The big goal of epilepsy research

4:30 – 5:45 PM	
4:30 – 5:00 PM	Lost in translation <i>Amos Korczyn (Tel Aviv, Israel)</i>
5:00 – 5:30 PM	Challenges of genomic applications in healthcare systems <i>Moein Kanaan (Bethlehem, Palestine)</i>
5:30 – 6:00 PM	From science to clinic: will research in epilepsy genetics revolutionize patient care and treatment? <i>Ulrich Stephani (Kiel, Germany)</i>
6:00 – 6:15 PM	Closing remarks
6:15 PM –	Dinner in the desert

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Sunday Dec 15th

Session 8: Get to know Israel!

8:30 AM – 2:00 PM	
8:30 AM – 2:00 PM	A trip into the Negev <i>Zaid Afawi (Be'er-Sheva, Israel)</i>

**YOUNG RESEARCHERS
IN EPILEPTOLOGY**
אפילפסיה
صرع
Sde Boker, 14 December 2013

