Welcome to Cortical Connections 2021

Cortical Connections 2021 is an internationally recognized scientific event created to discuss developmental malformations of the corpus callosum with both scientific community and the lay public, including non-governmental organizations and Family Groups connected to the cause. The event will be held online over six days, June 27 – July 2, 2021, bringing together doctors, researchers of scientific relevance from a wide range of areas of knowledge, other clinicians, and individuals with callosal malformations and their families. The conference is organized by the International Research Consortium for the Corpus Callosum and Cerebral Connectivity (IRC5).

Event Structure

**Series on Scientific Studies of Corpus Callosum Dysgenesis - 27th June to 1st July (8pm – 9:15pm GMT*)**
Two scientific experts present current research on callosal dysgenesis (DCC) related the topic of the day, followed by an interactive discussion of these presentations and related research. Presentations and discussion in English.

**Series on Living with Corpus Callosum Dysgenesis - 27th June to 1st July (9:30pm – 10:45pm GMT*)**
Expert clinician-scientists answer questions commonly asked by people living with callosal dysgenesis, followed by an interactive discussion of questions raised by attendees. Pre-recorded presentations by experts in English with translations available. Live discussion in English.

**Awareness Day Celebration – 2nd July**
The last day will be dedicated to celebrate the DCC Awareness Day, co-hosted by IRC5 and The Bridge. There will be simultaneous virtual rooms addressing specific topics related to the DCC and facilitating interaction among the international DCC community.

**Virtual Poster Session - 27th June to 2nd July**
Throughout the six days of event, there will be a gallery of
scientific posters covering the following topics about corpus callosum dysgenesis and related developmental brain malformations. Attendees will be able to contact and interact with the authors at any time. See detailed information here.

* Session times were scheduled to favor the simultaneous participation of people from different countries.

About IRC5
The consortium is composed of scientists and clinicians from around the world striving to make major discoveries that will make a significant difference to the lives of individuals with brain malformations. All of these activities occur in a highly collaborative manner to accelerate research and promote data sharing and to also preserve the progress made by individual investigators and prior collaborative arrangements. More information at here.

Our Aims for Cortical Connections 2021

- Create a virtual environment to foster the scientific debate and awareness about developmental Brain Malformations and Corpus Callosum Disorders.
- Provide scientific information related to the topic for both scientific researchers and families.
- Facilitate interaction among researchers and families of patients in the international community.
- Generate informational tools (e.g. videos) to address questions from the community (compiled by The Bridge).
Cortical Connections 2021 - Program

June 27

8pm-9:10pm  SCIENTIFIC PANEL: CORTICAL DEVELOPMENT
Chair: Roberto Lent (Brazil)
8:00 - 8:10  Opening
Presenters: Fernanda Tovar Moll (Brazil) & Lynn K. Paul (United States)
8:10 - 8:30  200 million years of interhemispheric communication: 20 years later
Speaker: Francisco Aboitiz (Chile)
8:30 - 8:50  Corpus Callosum Development Impacted by Zika Virus
Speaker: Patricia Garcez (Brazil)
8:50 - 9:00  Discussion
9:00 - 9:10  Quick talks: posters flash session
CENPJ REGULATES AXONAL GROWTH IN CORTICAL NEURONS THROUGH MICROTUBULE DESTABILIZATION
Presenter: Pamela de Meneses Iack Ximenes

9:30pm-10:45pm  LIVING WITH DCC: CALLOSAL MALFORMATIONS: CLASSIFICATION, CAUSES, PREVALENCE
Speakers: Linda Richards (Australia), Elliott Sherr (United States) & Tally Lerman-Sagie (Israel)
Live discussion

June 28

8pm-9:15pm  SCIENTIFIC PANEL: GENETICS
Chairs: Binnaz Yalcin (France) & Paul Lockhart (Australia)
8:00 - 8:20  Quick talks: posters flash session
CHARACTERISATION OF A RECURRENT MISSENSE MUTATION IN THE DNA-BINDING DOMAIN OF THE NFI TRANSCRIPTION FACTORS
Presenter: Jonathan W.C. Lim (Australia)
COMPREHENSIVE GENETIC ANALYSIS CONFFRS HIGH DIAGNOSTIC YIELD IN 16 JAPANESE PATIENTS WITH CORPUS CALLOSUM ANOMALIES.
Presenter: Sachiko Miyamoto (Japan)
8:20 - 8:40  Epidemiology of congenital defects of the central nervous system in South America
Speaker: Jose Ignacio Zarante (Colombia)
8:40 - 9:00  Deciphering the genetic basis of corpus callosum disorders in mice
Speaker: Binnaz Yalcin (France)
9:00 -  Discussion

9:30pm-10:45pm  LIVING WITH DCC: GENETICS & FETAL DEVELOPMENT
Speakers: Paul Lockhart (Australia), Tania Attié-bitach (France), Elliott Sherr (United States) & Christel Depienne (Germany)
Live discussion
June 29

8pm-9:15pm SCIENTIFIC PANEL: DIAGNOSTICS
  Chair: Gregor Kasprian (Austria)
  8:00 - 8:20 - Callosal Dysgenesis: What Can Fetal MRI Tell Us?
  Speaker: Orit Glenn (United States)
  8:20 - 8:40 - The 50 shapes of the Corpus callosum
  Speaker: Gustavo Malinger (Israel)
  8:40 - 9:00 - Fetal Callosal Malformation Showcase: Pitfalls and Peculiarities
  Speaker: Matthew Whitehead (United States)
  9:00 - Discussion

9:30pm-10:45pm LIVING WITH DCC: DIAGNOSTICS & MEDICAL ISSUES
  Chair: Gregor Kasprian (Austria)
  Speakers: Gregor Kasprian (Austria), Paulo Mattos (Brazil), Ricardo de Oliveira-souza (Brazil), Emily Castro Fonseca (Brazil), Romina Romaniello (Italy) & Fernando Vargas (Brazil)
  Live discussion

June 30

8pm-9:25pm SCIENTIFIC PANEL: BRAIN IMAGING AND CONNECTIVITY
  Chair: Filippo Arrigoni (Italy)
  Quick talks: posters flash session
  ROLE OF NRPI IN CONTROLLING CORTICAL INTER-HEMISPHERIC CIRCUITS
  Presenter: Fernando Martín Fernández
  DIRECT INTERHEMISPHERIC CORTICAL COMMUNICATION VIA THALAMIC COMMISSURES: A NEW WHITE-MATTER PATHWAY IN THE RODENT BRAIN.
  Presenter: Diego Szczupak (United States)
  8:20 - 8:30 - INCREASED GABA LEVELS IN POSTNATAL DEVELOPMENT ALTER CORTICAL INTER-HEMISPHERIC CIRCUITS
  Presenter: Lorena Bragg Gonzalo
  8:30 - 8:50 - Axonal guidance anomalies - where the corpus callosum meets the infratentorium
  Speaker: Karina Krajden Haratz (Israel)
  8:50 - 9:10 - Callosal-Specific Recruitment after Unilateral Injury
  Speaker: Emily Petrus (United States)
  9:10 - Discussion

9:30pm-10:45pm LIVING WITH DCC: BRAIN WIRING AND COMPENSATION
  Chair: Fernanda Tovar Moll (Brazil)
  Speakers: Fernanda Tovar Moll (Brazil), Roberto Lent (Brazil), Diego Szczupak (United States), Filippo Arrigoni (Italy), Patricia Soares de Oliveira Szejnfeld (Brazil) & Karina Krajden Haratz (Israel)
  Live discussion
July 1

8pm-9:15pm  SCIENTIFIC PANEL: NEUROCOGNITIVE IMPACTS & INTERVENTIONS
Chair: Lynn K. Paul (United States) & Rhonda Booth (United Kingdom)
8:00 - 8:20 - Quick talks: posters flash session
   NEUROPSYCHOLOGICAL PROFILES IN CHILDREN WITH AGCC: A SYSTEMATIC REVIEW
   Presenter: Alice Wright
   IMAGINATIVE ELABORATION IN AGENESIS OF THE CORPUS CALLOSUM: TOPIC
   MODELING AND PERPLEXITY
   Presenter: Matthew Hoard
8:20 - 8:40 - Using non invasive brain stimulation to boost neuroplasticity in children and
   adolescents with neurodevelopmental and neurological disorders
   Speaker: Alessandra Finisguerra (Italy)
8:40 - 9:00 - Music as a therapeutic tool in Neurodevelopmental Conditions
   Speaker: Pamela Heaton (United Kingdom)
9:00 - Discussion

9:30pm-10:45pm  LIVING WITH DCC: BEHAVIORAL ISSUES, PARENTING AND INTERVENTIONS
Chair: Rhonda Booth (United Kingdom)
Speakers: Lynn K. Paul (United States) & Warren S. Brown (United States)
Live discussion
DCC AWARENESS DAY CELEBRATION. July 2

• AusDoCC, Australia

09am-10am  ADULTS WITH DCC AROUND THE WORLD
Hosts: Michael Shanahan & Jade Wright (Australia)

10am-10:30am  CHAT ROOM: AUSTRALIA INTERNATIONAL
Hosts: Kristina Coburn, Maree Maxfield & Edna The Fat Tailed Dunnart (Australia)

• Corpal, United Kingdom

2pm-2:30pm  CHAT ROOM: UNITED KINGDOM INTERNATIONAL
Chairs: Rachel Watson & Rhonda Booth (United Kingdom)
Speaker: Aspa Psaradellis (United Kingdom)

3pm-4pm  CHAT ROOM: EDUCATORS/TEACHERS
Chairs: Leanne Hussey & Yogesh Nakarja (United Kingdom)
Speakers: Karima Esmail, Karim Esmail, Aspa Psaradellis & Rachel Staplehurst (United Kingdom)

• Hungary National

4pm-5pm  CHAT ROOM: *IN HUNGARIAN
Host: Eszter Szabo (Hungary)

• Hungary International

5pm-6pm  CHAT ROOM: *IN ENGLISH
* Host: Eszter Szabo (Hungary)

• France National

6pm-6:30pm  CHAT ROOM: *IN FRENCH
Host: Kirsi Pirttimaki (France)

• France International

6:30pm-7pm  CHAT ROOM: *IN ENGLISH
Host: Kirsi Pirttimaki (France)

• Corpal, United Kingdom

7pm-8pm  SESSION: BRAIN DEVELOPMENT AND NEURORADIOLOGY IN DISORDERS OF THE CORPUS CALLOSUM:
A UK PERSPECTIVE
Chairs: Aspa Psaradellis & Raj Nagra (United Kingdom)
Speakers: Mary Rutherford & Tomoki Arichi (United Kingdom)

- NODCC, United States
  9pm-9:30pm GLOBAL DCC AWARENESS DAY CELEBRATION

- ABrDCC, Brazil
  10pm- CHAT ROOM: BRAZIL NATIONAL *IN PORTUGUESE
  Host: Marco Girão (Brazil)
  10 pm - Os direitos da pessoa com deficiência
  Speaker: Nuno Henrique Sobral (Brazil)

  11 pm - Aspectos neuropsicológicos das desordens do corpo caloso
  Speakers: Myriam de Carvalho Monteiro (Brazil), Fernanda Tovar Moll & Patricia Soares de Oliveira Szejnfeld (Brazil)

  11:59 pm - O papel da família nos processos formativos da pessoa com ACC
  Speakers: Martha Benevides da Costa & Rubia Girão (Brazil)