


# D3S 2020

THE 2020 DOUGLAS SPECIAL SCIENTIFIC SYMPOSIA  
LES SYMPOSIUMS SCIENTIFIQUES SPÉCIAUX DU DOUGLAS 2020

## PROGRAM | PROGRAMME



**THURSDAYS**  
**MAY 21, JUNE 4 & 18, JULY 2**  
**11:00AM - 12:30PM**

**LES JEUDIS**  
**21 MAI, 4 & 18 JUIN, ET 2 JUILLET**  
**11H00 À 12H30**

Zoom link [here](#) | *Lien Zoom [ici](#)*  
ID: 958 1977 8923  
Password | *Mot de passe* : 575822



[@THEDALCOMMITTEE](#)



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# D3S 2020

## PROGRAM/PROGRAMME

THURSDAY | MAY 21      JEUDI | 21 MAI

Chairperson: Pratap Singh Markam

### ❖ Long Talks / Longues présentations

*Developing a translational polygenic score of biological sensitivity to context.*

**Maeson Latsko**, Zihan Wang, Tie Yuan Zhang, Carine Parent, Nick O'Toole, Irina Pokhvisneva, W. Thomas Boyce, Michael J. Meaney, Patricia Pelufo Silveira.

*Mu opioid receptors in the dorsal raphe nucleus: role in reward/aversion, mood, social behaviors and opioids use.*

**Lola Welsch**, Mathilde Frison, Julie Bailly, Sami Ben Hamida, Emmanuel Darcq, Brigitte Kieffer

*Vertex-wise structural covariance within functional brain networks in schizophrenia.*

**Katie M. Lavigne**, Carolina Makowski, Lindsay B. Lewis, Martin Lepage, Alan C. Evans

### ❖ Short Talks / Courtes présentations

*Profiling Exosomes in the Anterior Cingulate Cortex of Individuals with Major Depressive Disorder.*

**Pascal Ibrahim**, Zahia Aouabed, Jean-François Thérout, Corina Nagy, Gustavo Turecki.



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## PROGRAM/PROGRAMME



THURSDAY | MAY 21      JEUDI | 21 MAI

❖ **Short Talks / Courtes présentations (cont'd)**

*Functional changes in parvalbumin activity in the prefrontal cortex following ventral hippocampal dysconnection: insights into schizophrenia.*

**Moushumi Nath**, Dr. Sanjeev Bhardwaj , Dr. Tak Pan Wong , Dr. Lalit Srivastava

*Long Term Effects of Housing First for Homeless People with Mental Illness on Costs and Housing Stability.*

**Hannah Rochon**, Dimitra Panagiotoglou, Eric Latimer

*Prédicteurs de l'utilisation des urgences chez la population en situation d'itinérance.*

**Morgane Gabet**, Guy Grenier, Zhirong Cao, Marie-Josée Fleury

*Environmental Enrichment during Peri-Adolescence, but not Young Adulthood, Increases Resistance to Subchronic Variable Stress in Female Mice.*

**Leora Hiar**, Kelly Craig, Carine Parent, Allison Martel, Xianglan Wen, Camila Valle, Anne-Marie Arel-Dubeau, Josie Diorio, Tie-Yuan Zhang

*Microstructural Correlates of Variable Cognitive Trajectories in a Healthy Aging Population.*

**Raihaan Pateel**, Chakravarty, M.M, Mackay, C.E., Zsoldos, E, Ebmeier, K.P., Suri, S

# D3S 2020

## PROGRAM/PROGRAMME



**THURSDAY | JUNE 4      JEUDI | 4 JUIN**

Chairperson: Pascal Ibrahim

### ❖ Long Talks / Longues présentations

*The eating behavior of police officers on rotating shift schedule.*

**Anastasi Kosmadopoulos**, Laura Kervezee, Philippe Boudreau, Fernando Gonzales-Aste, Nina Vujovic, Frank A. J. L. Scheer, Diane B. Boivin

*Social stress in adolescence vs adulthood: Distinct effects on PFC dopamine and cognition.*

Andrea Harée Pantoja Urbán\*, **Philip Vassilev\***, Dominique Nouel, Michel Giroux, Cecilia Flores (\*equal contribution)

*Cross-species glucocorticoid-sensitive hippocampal gene network: developing a polygenic score associated with susceptibility to psychiatric conditions in response to adversity in humans.*

**Danusa Mar Arcego**; Nicholas O'Toole; Irina Pokhvisneva; Jan-Paul Buschdorf; Nirmala Arul Rayan; Barbara Barth<sup>2</sup>; Zihan Wang; Sachin Patel; Euclides J. Mendonça Filho; Randriely Merscher Sobreira de Lima; Carla Dalmaz; Josie Dorio; Patrícia Pelufo Silveira; Michael J. Meaney

### ❖ Short Talks / Courtes présentations

*The Lasting Impact of Child Abuse on Oligodendrocyte-Lineage Cells in the Human Brain: A Comparative Study of Regional Transcriptomes.*

**K. Perlman**, A. Tanti, D. Almeida, M.A. Davoli, V. Yerko, D. Mirault, G. Turecki, N. Mechawar

# D3S 2020

## PROGRAM/PROGRAMME



**THURSDAY | JUNE 4      JEUDI | 4 JUIN**

❖ **Short Talks / Courtes présentations (cont'd)**

*The circadian regulation of Plasmodium parasitic infection and the immune response.*

**Priscilla Carvalho Cabral**, Martin Olivier and Nicolas Cermakian

*Simultaneous localized magnetic resonance spectroscopy in two brain regions using a SPECIAL sequence with Hadamard encoding.*

**Masoumeh Dehghani**, Richard Edden, and Jamie Near

*Residential greenspace exposure and mental health problems in adolescence: Preliminary findings from a Quebec cohort.*

**Bolanis, D.**, Robitaille, E., Kestens, Y., Orri, M., Philibert, M., Philippe, F., Bouchard, S., Ouellet-Morin, I., Tremblay, R.E., Turecki, G., Côté, S.M., Geoffroy, M-C.

*Acceptabilité d'une formation étendue en prévention des surdoses d'opioïdes destinée à des usagers.*

**Marie-Anne Ferlatte**, Guillaume Tremblay, Diana Milton, Michel Perreault

*Modulation of reticular thalamus firing and bursting activity by lysergic acid diethylamide (LSD) and medial prefrontal cortex optogenetic inhibition.*

**Antonio Inserra**, Danilo De Gregorio, Tamim Rezai, Qianzi He, Martha Graciela Lopez-Canul, Stefano Comai, Gabriella Gobbi

*Interaction Effect Between a Polygenic Risk Score for Fasting Insulin and Early Life Adversity Affects Impulsive Behavior in Boys, Not Girls.*

**Aashita Batra**, Zihan Wang, Irina Pokhvisneva, Michael J. Meaney, Patricia Pelufo Silveira

# D3S 2020

## PROGRAM/PROGRAMME



**THURSDAY | JUNE 18**      **JEUDI | 18 JUIN**

Chairperson: Alice Morgunova

### ❖ **Long Talks / Longues présentations**

*Developing a Novel Treatment for Schinzel-Giedion Syndrome.*

**Lilit Antonyan**, Xin Zhang, Ying Zhang, Hanrong Wu, Huashan Peng, Carl Ernst

*The Interaction Between Circadian Disruption and a Neurodevelopmental Risk Factor for Schizophrenia.*

**Tara C. Delorme**, Lalit K. Srivastava and Nicolas Cermakian

*Simultaneous Quantification of Metabolites and Macromolecules using Longitudinal in vivo Magnetic Resonance Spectroscopy Reveals Age- and Sex-Related Changes in the Healthy Fischer 344 Rat Brain.*

**Caitlin F. Fowler**, Dan Madularu, Gabriel A. Devenyi, Jamie Near

### ❖ **Short Talks / Courtes présentations**

*Clinical profile and prevalence of posttraumatic stress symptoms among service-users referred for psychological follow-up: utility of assessing symptoms severity range.*

**Danielle Penney**, Ghassan El-Baalbaki, and Martin Lepage

*Early life stress impairs circadian rhythms of Bmal1 expression in peripheral oscillators of neonatal rats.*

**Mary Loka**, Silke Kiessling, Hong Long, Nicolas Cermakian, Claire-Dominique Walker

# D3S 2020

## PROGRAM/PROGRAMME



**THURSDAY | JUNE 18**      **JEUDI | 18 JUIN**

❖ **Short Talks / Courtes présentations (cont'd)**

*Age-related changes in the circadian variation of alertness and temperature in women.*

**Rafael Pérez-Medina-Carballo**, Anastasi Kosmadopoulos, Philippe Boudreau, Manon Robert, Diane B. Boivin

*Single-nucleus RNA-seq of the hippocampus in male and female subjects - a pilot study.*

**Malosree Maitra**, Corina Nagy, Jean-François Thérroux, Gustavo Turecki

*Prenatal maternal stress and the risk of autism in children: Iowa Flood Study.*

**Mylène Lapierre**, Guillaume Elgbeili, Suzanne King,

*Integration of cross-species genomic and transcriptomics to identify sex-specific glutamatergic gene networks involved in emotional phenotypes.*

**Li Li**, Zihan Wang, Sachin Patel, Omar Khedr, Allison Martel, Oscar Vasquez, Maria Aristizabal, Irina Pokhvisneva, Nick O'Toole, Tie Yuan Zhang, Josie Diorio, Kieran J. O'Donnell, Marla B Sokolowski, Patricia Pelufo Silveira, Michael J Meaney.

*Using non-negative matrix factorization to examine treatment resistance and response in patients with schizophrenia: a multimodal imaging study.*

**Eric Plitman**, Ryo Ochi, Raihaan Patel, Sakiko Tsugawa, Ryosuke Tarumi, Shiori Honda, Karin Matsushita, Shinya Fujii, Hiroyuki Uchida, Masaru Mimura, Yoshihiro Noda, Gabriel A. Devenyi, and Shinichiro Nakajima and M. Mallar Chakravarty

*Delta-9-Tetrahydrocannabinol (THC) for the treatment of neuropathic pain in rats with tolerance to morphine.*

**Leora Pearl-Dowler**, Luca Posa, Alexandra Teggin, Gabriella Gobbi

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## PROGRAM/PROGRAMME

THURSDAY | JULY 2      JEUDI | 2 JUILLET

Chairperson: Pratap Singh Markam

### ❖ Long Talks / Longues présentations

*Alteration in neurodevelopmental trajectories in mice following first and second trimester maternal immune activation.*

**Elisa Guma**, Daniel Gallino, Chloe Anastassiadis, Gabriel A. Devenyi, Vedrana Cvetkovska, Pedro Bordignon, Gulebru Ayranci, Bratislav Misic, Rosemary Bagot, M Mallar Chakravarty

*Widespread Amyloid Is Necessary to Detect Tau-PET Signal Beyond the Entorhinal Cortex and Cognitive Decline.*

**Hazal Ozlen**, Alexa Pichet Binette, Theresa Köbe, Pierre-François Meyer, Sylvia Villeneuve

*Early life stress induces sex-specific changes in behavior & gut bacteria composition in early adulthood.*

**J. Kasia Szyszkowicz**, Iris Kim, Marie-Claude Audet, Giamal N. Luheshi

### ❖ Short Talks / Courtes présentations

*Accelerated social defeat stress: A novel paradigm for studying social stress in adolescence and adulthood.*

**Andrea Harée Pantoja Urbán\***, Philip Vassilev\*, Dominique Nouel, Michel Giroux, Cecilia Flores (\*equal contribution)

*Social support and protection from depression, anxiety and suicide ideation and attempts in emerging adulthood: A longitudinal population-based study in Canada.*

**Sara Scardera**, Lea Perret, Robert-Paul Juster, Isabelle Ouellet-Morin, Geneviève Gariépy, Michel Boivin, Gustavo Turecki, Richard Tremblay, Sylvana Coté, Marie-Claude Geoffroy



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## PROGRAM/PROGRAMME



**THURSDAY | JULY 2      JEUDI | 2 JUILLET**

❖ **Short Talks / Courtes présentations (cont'd)**

*Altered entrainment to light and behavioral deficits in mice lacking the circadian deubiquitinase USP2.*

**Shashank Srikanta**, Katarina Stojkovic and Nicolas Cermakian

*The role of m6A RNA methylation in the brain with depression.*

**Haruka Mitsuhashi**, Corina Nagy, Zahia Aouabed, Gustavo Turecki

*Investigating perineuronal nets in the brain of depressed suicides with a history of child abuse.*

**Belliveau, C.**, Tanti, A., Mpai, R., McFarquhar, A., Denux, F., Davoli, M.A., Mechawar, N

*Liver leptin receptor gene network moderates the effects of early life adversity on emotional problems and gray matter density.*

**Randriely Merscher Sobreira de Lima**, Barbara Barth, Danusa Mar Arcego, Euclides José de Mendonça Filho, Sachin Patel, Zihan Wang, Irina Pokhvisneva, Michael J. Meaney, Carla Dalmaz, Patrícia Pelufo Silveira

*Does the child's anxiety determine maternal over-involvement or vice versa? An observational study: from QF2011.*

**Alexandra Bucur**, Guillaume Elgbeili, David Laplante, Suzanne King

*Sex-specific changes in the development of PV and PNN in the prelimbic mPFC of rodents following ELS.*

**Alyssa A Guerra**, Angela Guadagno Hong Long, Silvana Verlezza, Claire-Dominique Walker

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## ORGANIZING COMMITTEE / COMITÉ ORGANISATEUR

The Douglas Student Committee for Academic Life / Le Comité étudiant pour la vie académique au Douglas: Aashita Batra, Alice Morgunova, Ana Elisa Farias de Sousa, Barbara Barth, Helen Martin, Pascal Ibrahim, Pratap Singh Markam, Ruchika Bhattacharya, Shashank Srikanta, Stephanie Tullo, Sydney Sue, Xinyuan Li, Nicolas Cermakian

We are grateful to the 12 researchers committing time to judge the talks for awards. / *Nous remercions les 12 chercheurs donnant de leur temps pour évaluer les présentations pour les prix.*

## SPONSORS / COMMANDITAIRES

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