



UNIVERSITY OF
TORONTO



TORONTO CANNABIS AND CANNABINOID
RESEARCH CONSORTIUM

DEFY
GRAVITY



4TH ANNUAL

TC3 RESEARCH & INNOVATION SYMPOSIUM

THURSDAY MAY 30 | 2024 @ 8:45 AM to 4:30 PM
CHESTNUT CONFERENCE CENTRE, TORONTO, ONTARIO

KEYNOTE SPEAKER



Kim Hellemans

Assistant Professor, Department of Neuroscience
Associate Dean, Student Recruitment, Wellness & Success
Faculty of Science, Carlton University
Ottawa, Canada

CAREER PANEL

Jonathan Zaslavsky

Regulatory Affairs Associate
(Intern), AstraZeneca
Past TC3 Fellow



Megan Drupals

Toronto Urban Fellow
City of Toronto
Past TC3 Trainee



Justin Grant

Life Sciences Consultant



Kim Hellemans

Assistant Professor and
Associate Dean, Carlton
University



TRAINEE & FACULTY TALKS & POSTERS

Talks & posters will feature a diverse range of topics including:

- Hot Topics in cannabis & cannabinoids
- Cannabis and mental health
- Cannabinoid therapeutics
- Cannabis use disorder
- Youth cannabis use
- Novel cannabinoid formulations
- Cannabis policy
- Endocannabinoid system

TC3.UTORONTO.CA

@TC3CONSORTIUM

#TC3RESEARCHDAY

4TH ANNUAL TC3 RESEARCH & INNOVATION SYMPOSIUM
MAY 30, 2024 | CHESTNUT CONFERENCE CENTRE | UNIVERSITY OF TORONTO

AGENDA

8:30 - 9:00 am	Check-in & registration Poster presenters display posters on boards <i>Continental Breakfast</i>	
9:00 - 4:30	Posters on Display	
9:00 - 9:05	Opening Remarks Arij Al Chawaf, Executive Director, Institutional Strategic Initiatives, University of Toronto	
9:05 - 9:10	Welcoming Remarks Ruth A. Ross, Director, Toronto Cannabis and Cannabinoid Research Consortium, University of Toronto	
9:10 - 9:25	Maryam Sorkhou	SEX-SPECIFIC EFFECTS OF EXTENDED CANNABIS ABSTINENCE ON SUBSTANCE USE AND CLINICAL OUTCOMES IN PATIENTS WITH CO-OCCURRING MAJOR DEPRESSION AND CANNABIS USE DISORDER
9:25 - 9:40	Cassie Côté	SYNAPTIC DENSITY IN MENTAL HEALTH TREATMENT-SEEKING YOUTH WITH CANNABIS USE DISORDER: A PET STUDY OF [¹⁸F]SYNVEST-1
9:40 - 9:55	Catharine Mielnik	IMPLICATIONS OF MODULATION OF 2-AG IN HYPERDOPAMINERGIC STATES
9:55 - 10:10	André McDonald	AGE-DEPENDENT ASSOCIATION OF CANNABIS USE WITH RISK OF PSYCHOTIC DISORDER
10:10 - 10:25	Christina Pereira	FATTY ACID AMIDE HYDROLASE LEVELS IN SOCIAL ANXIETY DISORDER: A REPLICATION PET STUDY WITH THE TRACER [¹¹C]CURB
10:25 - 10:40	Ankita Das	MOTIVATIONS, PERCEPTIONS AND EFFECTS OF CANNABIS USE IN INDIVIDUALS WITH MOOD AND ANXIETY DISORDERS
10:45 - 11:15	<i>Coffee Break</i>	

4TH ANNUAL TC3 RESEARCH & INNOVATION SYMPOSIUM
MAY 30, 2024 | CHESTNUT CONFERENCE CENTRE | UNIVERSITY OF TORONTO

11:15: - 11:45	Kim Hellemans, Carlton University	KEYNOTE SPEAKER HIGH STAKES: EXPLORING PATHWAYS TO PROBLEMATIC CANNABIS USE AMONG YOUNG ADULTS
11:45 - 12:30	Justin Grant (Consulting) Kim Hellemans (Carlton University) Jonathan Zaslavsky (AstraZeneca) Megan Drupals (City of Toronto)	CAREER PANEL
12:30 - 1:45	POSTER PRESENTATIONS, LUNCH AND NETWORKING BREAK	
1:50 - 2:05	Mehdi Nouraei	DESIGNING AND DEVELOPING A SELF-MICRO EMULSIFYING DRUG DELIVERY SYSTEM (SMEDDS) TO ENHANCE THE SOLUBILITY AND BIOAVAILABILITY OF CANNABINOID
2:05 - 2:20	Lakshmi Kotra	EFFECT OF CBD TREATMENT IN MALE AND FEMALE MICE IN A MOG ₃₅₋₅₅ PEPTIDE-INDUCED EAE ANIMAL MODEL
2:20 - 2:35	Calvin Diep	PAIN SEVERITY, PAIN INTERFERENCE, AND HEALTH-RELATED QUALITY OF LIFE FOR ADULTS USING AUTHORIZED MEDICAL CANNABIS PRODUCTS: PRELIMINARY FINDINGS FROM THE MEDICAL CANNABIS REAL WORLD EVIDENCE STUDY
2:35 - 2:50	Claire Shyu	INVESTIGATING FATTY ACID AMIDE HYDROLASE AND CLINICAL CORRELATES IN OPIOID TREATED CHRONIC PAIN PATIENTS WITH AND WITHOUT PROBLEMATIC OPIOID USE: A PET STUDY WITH RADIOLIGAND [11C]CURB
2:50 - 3:15	Coffee Break	
3:15 - 3:30	Rachel Goud	COMBINED COGNITIVE BEHAVIOURAL AND MOTIVATIONAL ENHANCEMENT THERAPY FOR CANNABIS USE DISORDER

4TH ANNUAL TC3 RESEARCH & INNOVATION SYMPOSIUM
MAY 30, 2024 | CHESTNUT CONFERENCE CENTRE | UNIVERSITY OF TORONTO

3:30 - 3:45	Dhvani Mehta	REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION OF THE INSULA AND PREFRONTAL CORTEX FOR THE TREATMENT OF CANNABIS USE DISORDER: PRELIMINARY RESULTS
3:45 - 4:00	Justin Matheson	SEXUAL IDENTITY, SEXUAL MINORITY STRESS, AND CANNABIS USE MOTIVES AND HARMS IN PATIENTS ACCESSING ADDICTION TREATMENT IN ONTARIO, CANADA
4:00 - 4:15	Patricia DiCiano	CANNABIS EDIBLES: EFFECTS ON COGNITIVE PERFORMANCE
4:15 - 4:30	Brooke Magel Rowen Shier	CANADIAN CANNABIS RESEARCHER PERSPECTIVES ON FINANCIAL RELATIONSHIPS WITH THE FOR-PROFIT CANNABIS INDUSTRY
4:30 pm	<i>Program Close</i>	

POSTER PRESENTATIONS

Poster Number	Presenting Author	Lab/Research Group	Abstract Title
1	Molly Zhang	Tony George	EFFECTS OF EXTENDED CANNABIS ABSTINENCE ON ANXIETY AND SLEEP IN PEOPLE WITH CO-OCCURRING CANNABIS USE DISORDER AND MAJOR DEPRESSIVE DISORDER
2	Daniel Mori-Fegan	Ruth Ross	FATTY ACID AMIDE HYDROLASE SINGLE NUCLEOTIDE POLYMORPHISM rs324420A/C ASSOCIATIONS WITH ALZHEIMER'S DISEASE
3	Shivahn Garvie	Tony George	EFFECTS OF EXTENDED CANNABIS ABSTINENCE ON NEUROCOGNITION IN PEOPLE WITH MAJOR DEPRESSIVE DISORDER

4TH ANNUAL TC3 RESEARCH & INNOVATION SYMPOSIUM

MAY 30, 2024 | CHESTNUT CONFERENCE CENTRE | UNIVERSITY OF TORONTO

4	Catharine Mielnik	Ruth Ross	THE BIDIRECTIONAL EFFECT OF 2-AG ON HYPERDOPAMINERGIC STATES: IMPLICATIONS OF THE CB2 RECEPTOR
5	Christina Pereira	Stefan Kloiber	FATTY ACID AMIDE HYDROLASE LEVELS IN SOCIAL ANXIETY DISORDER: A REPLICATION PET STUDY WITH THE TRACER [¹¹ C]CURB
6	Stefan Vislavski	Ruth Ross	A THREE HIT MODEL IN THE DEVELOPMENT OF NEGATIVE SYMPTOMS OF PSYCHOSIS
7	Claudia Lutelmowski	Ruth Ross	INSIGHTS INTO THE EFFECTS OF PERIPHERALLY RESTRICTED CB1-R MODULATORS IN MODELS OF HYPERDOPAMINERGIA
8	Darby Lowe	Tony George	PERCEPTIONS OF CANNABIS AND ITS ASSOCIATIONS WITH MENTAL HEALTH AMONGST BUDTENDERS IN SOUTHERN ONTARIO
9	Sonja Elsaid	Bernard Le Foll	EXPECTANCIES OF THE EFFECTS OF CANNABIS USE IN INDIVIDUALS WITH SOCIAL ANXIETY DISORDER (SAD)
10	Dhvani Mehta	Tony George	REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION OF THE INSULA AND PREFRONTAL CORTEX FOR THE TREATMENT OF CANNABIS USE DISORDER: PRELIMINARY RESULTS
11	Pavel Powlowski	Ruth Ross	USING eCB-GRAB SNIFFER CELLS TO MEASURE ENDOCANNABINOID RELEASE
12	Ankita Das	Stefan Kloiber	MOTIVATIONS, PERCEPTIONS AND EFFECTS OF CANNABIS USE IN INDIVIDUALS WITH MOOD AND ANXIETY DISORDERS
13	Sarah Paleczny	Michael Cusimano	EXAMINING THE IMPACT OF A NATIONAL POLICY CHANGE LEGALIZING RECREATIONAL CANNABIS USE ON INJURIES IN CANADA (CANNABIS C-45)
14	Danny Puente-Proaño	Joseph Ferenbok	INNOVATING MEDICAL EDUCATION: A FOCUS ON INTEGRATING 'ENDOCANNABINOLOGY' INTO CURRICULUM AT THE TEMERTY FACULTY OF MEDICINE, UNIVERSITY OF TORONTO

4TH ANNUAL TC3 RESEARCH & INNOVATION SYMPOSIUM
MAY 30, 2024 | CHESTNUT CONFERENCE CENTRE | UNIVERSITY OF TORONTO

15	Krishna Vajja	Lakshmi Kotra	A NOVEL SYNTHETIC METHOD TO ACCESS HETHERO-INACCESSIBLE, AND ENANTIOMERIC DERIVATIVES OF CBD
16	Hanan Idd	Stefan Kloiber	INVESTIGATING THE BRAIN ENDOCANNABINOID SYSTEM IN OBSESSIVE-COMPULSIVE DISORDER
17	Cassie Côté	Isabelle Boileau	SYNAPTIC DENSITY IN MENTAL HEALTH TREATMENT-SEEKING YOUTH WITH CANNABIS USE DISORDER: A PET STUDY OF [¹⁸ F]SYNVEST-1
18	Lola Zovko	Ali Salahpour	THE EFFECTS OF ENDOCANNABINOID MODULATION ON AN ACUTE MOUSE MODEL OF PARKINSON'S DISEASE
19	Raesham Mahmood	Isabelle Boileau	INVESTIGATING THE EFFECTS OF NABILONE ON ENDOCANNABINOID METABOLISM IN THE HUMAN BRAIN
20	Alysha Sultan	Benjamin Goldstein	ASSOCIATION OF POLYGENIC RISK FOR CANNABIS USE DISORDER WITH BRAIN STRUCTURE IN RELATION TO YOUTH BIPOLAR DISORDER
21	Alexandra Shifrin	Abby Goldstein	A SCOPING REVIEW OF CANNABIS MOTIVES AMONG EMERGING ADULTS
22	Anthony Ngoy	Matthew Sloan	NEUROMODULATION FOR CANNABIS USE: A SCOPING REVIEW
23	Yalin Sun	Susan R. George	ASTROCYTE-NEURON CROSSTALK IMPAIRMENT ELICITED BY DELTA9-TETRAHYDROCANNABINOL-INDUCED DOPAMINE RELEASE IN ADOLESCENT RAT AMYGDALA
24	Saifedine (Saif) Rjaibi	Michael Cusimano	ASSESSING THE IMPACT OF RECREATIONAL CANNABIS LEGALIZATION ON UNINTENTIONAL POISONINGS IN CANADA
25	Claire Shyu	Bernard Le Foll and Isabelle Boileau	INVESTIGATING FATTY ACID AMIDE HYDROLASE AND CLINICAL CORRELATES IN OPIOID TREATED CHRONIC PAIN PATIENTS WITH AND WITHOUT PROBLEMATIC OPIOID USE: A PET STUDY WITH RADIOLIGAND [¹¹ C]CURB

4TH ANNUAL TC3 RESEARCH & INNOVATION SYMPOSIUM
MAY 30, 2024 | CHESTNUT CONFERENCE CENTRE | UNIVERSITY OF TORONTO

26	Laurie Zawertailo	Laurie Zawertailo	CANNABIS CO-USE IN PEOPLE WHO SMOKE TOBACCO: EXPLORING VARIATION IN CONSUMPTION PATTERNS BASED ON REASONS FOR USE
27	Patricia DiCiano	Patricia DiCiano	CANNABIS EDIBLES: EFFECTS ON COGNITIVE PERFORMANCE
28	Tara Rosewall	Tara Rosewall	CARING FOR CANCER PATIENTS WHO ARE TAKING CANNABIS IN CANADA: A NATIONAL SURVEY OF RADIATION THERAPISTS' EXPERIENCES AND OPINIONS
29	Annette Kowara	Arun Ravindran	A 6-WEEK RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED STUDY OF CANNABIDIOL AS MONOTHERAPY OR ADJUNCTIVE THERAPY FOR THE TREATMENT OF ATTENTION-DEFICIT-HYPERACTIVITY DISORDER WITH AN 8-WEEK OPEN-LABEL EXTENSION: STUDY DESIGN AND RATIONALE
30	Lakshmi Kotra	Lakshmi Kotra	EFFECT OF CBD TREATMENT IN MALE AND FEMALE MICE IN A MOG35-55 PEPTIDE-INDUCED EAE ANIMAL MODEL
31	Manuela Neuman	Manuela Neuman	CANNABIS AND THE GASTROINTESTINAL TRACT

Join the conversation on X!

Tag: @TC3Consortium #TC3ResearchDay

The TC3 acknowledges the Institutional Strategic Initiatives Office of the Division of the Vice-President Research and Innovation, Temerty Faculty of Medicine, Leslie Dan Faculty of Pharmacy, University of Toronto Scarborough, Faculty of Applied Science & Engineering, Faculty of Arts & Science, Faculty of Kinesiology, Department of Cell & Systems Biology, at the University of Toronto and the Centre for Addiction and Mental Health for their funding support.