



Canadian Fertility and Andrology Society

CFAS 2021 67th ANNUAL MEETING

THRIVING THROUGH CHANGE:

***FROM VIRTUAL MEDICINE AND VIRUSES TO
TECHNOLOGY AND TECHNIQUES***

How professionals in the field of assisted reproduction were able to persevere
and continue providing excellent care, even during a global pandemic.

SEPTEMBER 23RD - 25TH, 2021 | VANCOUVER, B.C.

www.cfas.ca





About CFAS

The CFAS is a multidisciplinary national non-profit society that serves as the voice of reproductive specialists, scientists, and allied health professionals working in the field of assisted reproduction in Canada.

Celebrating its 67th year, the mission of the CFAS is to responsibly advance reproductive science and medicine in Canada through leadership, research, and guidance. Through its multidisciplinary membership of 700, the CFAS aims to promote excellence in the field of assisted reproduction to the benefit of Canadians and children born of this technology.

A Message from our Prime Minister.....4

A Message from the Mayor of Vancouver.....5

Welcome from the President.....6

A Message from the Executive Director.....7

Board of Directors.....8

SPC Members and Advisory Council.....8

CFAS Awards.....9

CFAS Grants.....12

Thank you to our Sponsors.....14

Keynotes Speakers.....16

Meeting Highlights and President’s Dinner.....23

Annual Meeting Program: Thursday, September 23rd.....25

Annual Meeting Program: Friday, September 24th.....26

Annual Meeting Program: Saturday, September 25th.....29

Thursday Posters Session.....32

Friday Posters Session34

68th CFAS Annual Meeting in September 202236



PRIME MINISTER • PREMIER MINISTRE

September 23–25, 2021

Dear Friends:

I am pleased to extend my warmest greetings to everyone attending the 67th Annual Meeting of the Canadian Fertility and Andrology Society (CFAS).



This event brings together reproductive specialists to share their expertise and exchange information about the most recent advances in the field. I am sure that delegates will benefit greatly from the educational sessions centred on this year's theme, "Thriving through change: from virtual medicine and viruses to technology and techniques," as well from the opportunity to network with their peers.

It continues to be a challenging time for planning and hosting events. That is why I would like to thank the organizers for putting together a stimulating and rewarding program for everyone involved while respecting public health guidelines.

Please accept my best wishes for an enjoyable and productive meeting.

Yours sincerely,

The Rt. Hon. Justin P. J. Trudeau, P.C., M.P.
Prime Minister of Canada



MAYOR KENNEDY STEWART



September 23- 25, 2021

A Message from the Mayor

On behalf of my colleagues on City Council, I want to extend my best wishes for the 67th Annual Meeting of the Canadian Fertility and Andrology Society.

As Mayor of this great city, it is my distinct privilege to welcome visitors from around the globe. This is very true when our visitors are working diligently to share knowledge and exchange ideas that will improve the lives of people.

The CFAS is a multidisciplinary national non-profit society that serves as the voice of reproductive specialists, scientists, and allied health professionals working in the field of assisted reproduction in Canada. The mission of the CFAS is to responsibly advance reproductive science and medicine in Canada through leadership, research, and guidance.

On behalf of the Vancouver City Council, please accept my best wishes for an insightful and successful conference.

Sincerely,

Mayor Kennedy Stewart

604-873-7621 kennedy.stewart@vancouver.ca
City of Vancouver, Office of the Mayor, 453 West 12th Avenue,
Vancouver, British Columbia, Canada V5Y 1V4



WELCOME FROM THE PRESIDENT

Dr. Jason Hitkari

Dear Friends and CFAS Members,

Thank you for participating in the 67th Annual Meeting of the Canadian Fertility and Andrology Society (CFAS) in Vancouver, British Columbia!

We should all be very proud of ourselves for rising to the challenges that the COVID-19 pandemic presented to us over the past year. As we navigated through these uncharted and mysterious territories of a global pandemic, we were forced to change how we run our clinics and research laboratories; perform our professional tasks; interact with people; and even live our daily lives. All this disruption led to resilience, creativity, and adaptation for healthcare professionals and researchers.

Despite all the unknowns, fears, restrictions, and fluctuating circumstances, we figured out how to provide the same high standard of care and professionalism.

In recognition of our perseverance and success, the theme for this year's conference is, **"Thriving Through Change: from Virtual Medicine and Viruses to Technology and Techniques"**.

Despite the ongoing impact of COVID-19, we will strive to provide an exceptional two

and a half day-long program that includes plenary sessions, roundtable discussions, and concurrent sessions to showcase the extraordinary work being done in our field. We hope that you find this event both educational and entertaining. We have strived to appeal to the varied interests of our members, and we want to celebrate all we have accomplished through our professional collaboration, support, and commitment in the face of unprecedented challenges.

I hope you take some time to enjoy all that Vancouver has to offer. Whether you enjoy eating at world-class restaurants, doing outdoor activities surrounded by natural beauty, or visiting one of our many museums or galleries, Vancouver has something for everyone.

It has been a long time since many of us have had a chance to safely be together with our colleagues and friends. We are excited to welcome you here in Vancouver!

Sincerely,
Jason Hitkari
CFAS President,
2020- 2021



MESSAGE FROM THE EXECUTIVE DIRECTOR

Goldi Gill

Dear CFAS Members,

First and foremost, I would like to cordially welcome you to this year's Canadian Fertility and Andrology Society (CFAS) Annual Meeting. This marks my third Annual Meeting experience with CFAS and I am excited to announce that this year, we have gone above and beyond to make your Annual Meeting experience the best that it can be. With many exhibitors, a preconference symposium, and a program jam-packed with presentations by experts from around the world; within the entire range of professions encompassed by the field of Assisted Reproductive Technology (ART), the meeting will be enjoyed by all attendees, whether virtually or in-person.

This past year and a half has truly been trying on so many, including those working in the field of ART; this is especially true now as our healthcare system navigates through the complex and challenging battle against and recovery from COVID-19. Thank you for all that you do; your efforts do not go unnoticed and are greatly appreciated.

As a parent, I understand the importance of family-building and the joys that children can bring to our lives. Knowing that our members and partners are working hard every day to make miracles happen for those struggling with infertility is truly inspiring.

It is our Society's commitment to continuous

learning and improvement that makes me so excited and proud to be in the role of Executive Director. Together with the CFAS team and our Board of Directors, I am working to ensure that the CFAS continues to thrive and accomplish its goals of governance, education, and growth. This 67th Annual Meeting is the first hybrid conference of its kind, and it is representative of CFAS ingenuity and adaptability. It has been no small feat, however, with an incredible team, our Special Interest Groups, Board Directors, and with exceptional leadership from Dr. Jason Hitkari, we have been able to plan this very exciting meeting. I look forward to many more CFAS accomplishments to come; stay tuned to see what CFAS has in store!

Sincerely,
Goldi Gill
CFAS Executive Director



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ADVISORY COUNCIL

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CFAS AWARDS

CAROLE RHÉAUME AWARD – awarded to a nurse who exemplifies Carole Rhéaume's passion for, and contribution to, patients with infertility. Carole was an exemplary fertility nurse who worked at Ovo Clinic in Montreal. She was a tireless patient advocate, a caring nurse, and a true leader. Carole spearheaded numerous initiatives to improve patient care and access to care. Carole was tragically killed in the winter of 2015 when she stopped her car on the side of the road to help another motorist who had veered off track.



Maja Smrzlic

Maja Smrzlic completed her baccalaureate degree in Nursing with honours at Ryerson University in 2007. She always had a passion for women's health, which led to her starting her career as a labour and delivery nurse at Sunnybrook Health Sciences in Toronto. During this time, she completed the Patient Centered Care Certificate course. Her patients shared their stories and struggles with fertility, sparking her interest in reproductive endocrinology. In 2011, she became a fertility nurse at CReATe Fertility Centre where she gained an abundance of knowledge in this area of science. At this post, she was responsible for the embryo donation program. In 2012, Maja completed her ASRM Nurse Certificate Course in REI. She started working at ONE Fertility in Burlington in 2014, where great mentors inspired her to step out of her comfort zone, work hard, share her ideas, and think 'outside of the box'. Her role quickly expanded as she took on more responsibilities at the clinic including developing clinical policies; helping to prepare the clinic for major inspections; launching various quality improvement initiatives; and developing new processes and programs. Maja has managed the government-funded IVF waitlist since the program began. In 2019, she obtained the Leadership of Assisted Reproduction in Clinical Setting Certificate from York University. During the COVID-19 pandemic, Maja was instrumental in forming new processes. She is currently working on developing patient educational content for the clinic website, as helping her colleagues and being an advocate for her patients is immensely important to her. This year, while still working at ONE Fertility, she accepted a part-time clinical instruction position for the RN program with Humber College.

AWARD OF EXCELLENCE (2) – an honour reserved for members of the Canadian Fertility and Andrology Society for an outstanding contribution to, and leadership in, the field of reproductive medicine and science.



Dr. Clifford Librach

Dr. Clifford Librach is the founder and Director of the CReATe Fertility Centre (Toronto, Ontario). He is a full-time professor in the Department of Obstetrics and Gynecology at the University of Toronto; additionally, he holds cross-appointments with the Department of Physiology and Institute of Medical Sciences. He is currently the chair of the Ontario Medical Association (OMA) Reproductive Biology Section and is a former president of the Canadian Fertility and Andrology Society (CFAS). Dr. Librach has shown unparalleled leadership and commitment, making significant contributions to current fertility practice in Canada.

He served as Division Head of Reproductive Endocrinology & Infertility at Sunnybrook Health Sciences Centre and Women's College Hospital for 25 years. Dr. Librach also served on the committees for development of standards for the Canadian Royal College REI fellowship and for development of CPSO standards for REI practice in Ontario. Dr. Librach was the Chair of Ontario Medical Association Reproductive Biology from 2004 to 2016. He co-founded the Canadian Fertility and Andrology (CFAS) IVF Improvement Committee in 2004 and has presented analysis of clinic specific data at the IVF directors meeting for the past 13 years. Dr. Librach was also involved in development and reporting of the Canadian Reproductive Technologies Registry (CARTR) and served on the committee for development of the Ontario BORN ART database. He has served on the government committee regarding the prioritization of funding for ART in Ontario and presented at the House of Commons Standing Committee on Health regarding the Assisted Human Reproduction Act. He has been interviewed extensively on ART-related topics in the national and international media.

Dr. Librach is a leader in the fields of obstetrics and gynecology, and reproductive medicine research. Some of his major contributions include identifying the role of HLA-G in pregnancy and preeclampsia; uncovering important factors indicative of embryo quality; improving andrology diagnostic testing; and the isolation of a novel multipotent progenitor cell from umbilical cord perivascular tissue. His ongoing research interests are targeted at increasing our understanding of male and female infertility; third party reproduction; improving ART outcomes; predicting risk of preeclampsia; and advancing umbilical cord stem cell research applications. He has been an invited speaker at more than 30 international and national meetings; furthermore, he has published over 100 peer-reviewed original publications, nine book chapters, and over 450 abstracts.



Jay M. Baltz

Jay M. Baltz is the Associate Scientific Director and a Senior Scientist at the Ottawa Hospital Research Institute (OHRI), and Professor of Obstetrics and Gynecology at the University of Ottawa. Dr. Baltz received his BA (Honours) in Physics from the University of Pennsylvania and PhD in Biophysics from The Johns Hopkins University, along with postgraduate training at Harvard Medical School with Dr. John Biggers. His laboratory studies mammalian eggs and early embryos, investigating the roles of physiological processes in eggs and embryos that are required for producing healthy eggs, embryos, and offspring; all being aimed particularly at improving assisted reproductive technologies. He has served on the Board of CFAS as Chair of the Canadian Federal Stem Cell Oversight Committee; as Director of the Canadian Institutes of Health Research (CIHR) Training Program in Reproduction, Early Development, and the Impact on Health (REDIH); as a member of the CIHR Institute of Human Development, Child, and Youth Health Advisory Board; as Director of the CIHR Program on Oocyte Health; and currently, as Associate Editor of Biology of Reproduction and the Journal of Ovarian Research. He has published more than 100 peer-reviewed papers, reviews, and book chapters and his research has been continuously funded by the CIHR since 1993.

BEST CLINICAL RESEARCH PAPER

Development of an Integrated LIMS and Electronic Database for High Throughput Preimplantation and Fertility Genetic Testing in the CReATe Reproductive Genetics Laboratory

Ran Antes¹, Svetlana Madjunkova^{1,2}, Clifford Librach^{1,2}

¹CReATe Fertility Centre, Toronto, ON; ²University of Toronto, Toronto, ON

BEST BASIC SCIENCE PAPER

Deep Learning Analysis on Endometrial Histology as a Predictive Tool for Pregnancy Outcome of Frozen Embryo Transfer

Tiantian Li¹, Renjie Liao², Crystal Chan³, Ellen Greenblatt³

¹Lunenfeld-Tanenbaum Research Institute (LTRI), Sinai Health System, Toronto, ON; ²Department of Computer Science, University of Toronto, Toronto, ON; ³Mount Sinai Fertility (MSF), Sinai Health System, Toronto, ON

BEST PSYCHOSOCIAL PAPER

Identifying Facilitators and Barriers to Embracing Embryo Donation for Reproductive Use and Gaps in Current Literature

Anushka Kuwar, Samantha Yee, Noga Weizman, Clifford Librach

¹CReATe Fertility Centre, Toronto, ON

BEST NURSING PAPER

Patient Perspectives in a Large Single Site Embryo Donation Program

Anyia Sion, Noga Weizman, Samantha Yee, Anushka Kuwar, Evening K'necht, Clifford Librach

¹CReATe Fertility Clinic, Toronto, ON

CFAS GRANTS

CFAS SMART FUND RESEARCH GRANT – *The SMART (Science and Medicine in Assisted Reproductive Technology) Fund serves to initiate and assist in furthering research and special projects that align with the CFAS’ mission and values.*

Identification of Sperm-borne RNA Biomarkers of Embryo Development

Hypothesis: We hypothesize that the RNA profile from normozoospermic men with poor embryo development will significantly differ from their same-sex male partners; those who had comparably higher embryo development rates in cycles where eggs from the same ovum donor were randomly split for each man.

Stewart Russell¹, Stephen Krawetz²
¹ CReATe Fertility Centre, Toronto, ON; ² Wayne State University, Detroit, MI

CFAS SEED RESEARCH GRANTS (3) – *The CFAS Seed Research Grants promote collaboration across distinctly different fields. Seed Grants serve to provide financial assistance to initiate new research or to obtain the preliminary results necessary to start a new a research program, which could subsequently be funded by regular grant agencies.*

Improving Fertility Services for LGBTQ and Gender Diverse Patients: A Quality Improvement Initiative at the Ottawa Fertility Centre

Hypothesis: Lesbian, gay, bisexual, transgender, two-spirit, queer, questioning, and gender-diverse (LGBTQ+) patients are increasingly seeking more care at fertility clinics to help with family building. However, prior qualitative studies with this patient population have shown that these patients often feel unwelcome and disaffirmed by their experiences in fertility clinics. No prior published studies have shown what kind of changes in fertility clinics result in improved LGBTQ+ and gender-diverse patient experience. We plan to solicit feedback from this patient population at the Ottawa Fertility Centre (OFC) and use it to conduct quality improvement initiatives. We anticipate that by implementing changes based on patient feedback at the OFC, we will note an improvement in satisfaction in this patient population.

Sophia Bachilova¹, Jenna Gale^{1,2}, Megan Gomes¹, Kori LaDonna¹
¹ University of Ottawa, Ottawa, ON, ² Ottawa Fertility Centre, Ottawa, ON

Exposure to Endocrine Disrupters BPA and BPS Affect Male Fertilization Capability

Hypothesis: We hypothesize that high bisphenols’ levels in semen and seminal plasma are an indicator of poor fertilization potential, resulting in lower pregnancy rates.

Laura Favetta¹, Alexander Lagunov²
¹ University of Guelph, Guelph, ON; ² Hannam Fertility Clinic, Toronto, ON

The Impact of Funding on the Use of ICSI in Non-male Factor Infertility: A CARTR-BORN Database Study

Hypothesis: 1. The use of ICSI for NFMI is higher in patients undergoing self-pay IVF treatment, compared to government-funded IVF; 2. Cumulative, live birth rates are comparable between patients/couples with NMFI undergoing IVF treatment with either conventional IVF or ICSI.

Zachary Ferraro¹, Miguel Russo², Kimberly Liu²
¹ University of Toronto, Toronto, ON; ² Mount Sinai Hospital, Toronto, ON



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OPENING LECTURE

ANDRÉ PICARD *Author, Health Columnist, The Globe and Mail*

The Post-Pandemic Health Care Landscape: How COVID-19 Shifted Public and Political Priorities.

A veteran health journalist reflects on how the pandemic has altered views on everything from childbearing, government spending, digital health, and more.



André Picard

André Picard is a health columnist at The Globe and Mail and a bestselling author of the 2021 book, *Neglected no More: The Urgent Need to Improve the Lives of Canada's Elders in the Wake of a Pandemic; Matters of Life and Death*; as well as *Public Health Issues in Canada* and *The Path to Health Care Reform: Policies and Politics*. Additionally, he is currently a visiting professor at the University of British Columbia's School of Journalism, Writing, and Media with his lessons focusing on the pandemic and public policy. André has received much acclaim for his writing, including the Michener Award: a prestigious award dedicated to meritorious public service journalism; the Centennial Prize of the Pan-American Health Association: an honour presented to top health journalists in the Americas; the 2020 Owen Adams Award of Honour: the highest Canadian Medical Association award available to a non-physician; and recently, the 2021 Tribute Award from the Canadian Journalism Foundation: an award presented to media luminaries who have made an exceptional impact. He is also an eight-time finalist for the National Newspaper Awards, which is Canada's version of the Pulitzer Prize.

He is a seasoned communicator who employs a conversational style to reach his audience. He enlivens his research and commentary with personal stories to provide context for his audience, including anecdotes from patients and health professionals in the front lines.

André will enlighten and peak a sense of curiosity of audience members from all educational backgrounds. His work as one of North America's top health journalists reflects his personality: behind the placid exterior lies an inquisitive, perceptive, and industrious scribe for whom the work only begins with the official story.

André is a graduate of the University of Ottawa and Carleton University; as well as a recipient of honorary doctorates from six universities, including the University of Toronto, UBC, and the University of Manitoba.

STATE OF THE ART LECTURE

ELI Y. ADASHI *MD, MS, MA (ad eundem), CPE, FACOG | Rhode Island, USA*

Eggs and Sperm from a Buccal Smear



Dr. Eli Y. Adashi

Dr. Eli Y. Adashi, the former (5th) Dean of Medicine and Biological Sciences at Brown University and an academic physician-executive, is a graduate of Tel Aviv University School of Medicine (MD, 1973) and the Harvard T.H. Chan School of Public Health program in Health Care Management (MS, 2005). A former president of the Society for Reproductive Endocrinologists (SRE), the Society for Gynecologic Investigation (SGI), and the American Gynecological and Obstetrical Society (AGOS), Dr. Adashi also served as Examiner and Director of the Division of Reproductive Endocrinology of the American Board of Obstetrics and Gynecology (ABOG).

Dr. Adashi completed residency training in obstetrics and gynecology at Tufts University under the leadership of George W. Mitchell, Jr., MD (1974-77). Thereafter, under the leadership of Georgeanna Seegar Jones, MD; and Howard W. Jones, Jr., MD, Dr. Adashi pursued fellowship training in the subspecialty of reproductive endocrinology and postdoctoral training in reproductive biology at Johns Hopkins University; additionally, at the University of California at San Diego under the leadership of Aaron J.W. Hsueh, PhD and Samuel S.C. Yen, MD, DSc, respectively (1977-81). He held faculty positions at the University of Maryland (1981-1996), the University of Utah (1996-2004), and Brown University (2004-present). Prior to joining Brown University, Dr. Adashi was the John A. Dixon Endowed Presidential Professor and Chair of the Department of Obstetrics and Gynecology at the University of Utah Health Sciences Center (1996-2004); the founder and leader of the Ovarian Cancer Program of the Huntsman Cancer Research Institute (1999-2004); and a Director of the Center for Embryonic Cell and Gene Therapy of Oregon Health & Science University (OHSU). Currently, he is also a professor in the Division of Reproductive & Developmental Sciences at Oregon National Primate Research Center (OHSU). Dr. Adashi earned his PhD degree in Developmental & Stem Cell Biology from the Research Center for Medical Genetics in Moscow, Russia. He came to Utah State University in 1995 to conduct his postdoctoral research in stem cell and developmental biology, later moving to OHSU in 1998.

OPENING LECTURE

CHARLES BORMANN, PhD (Boston, MA); GERARD LETTERIE, MD (Seattle, WA)

Clinical & Laboratory Use of Artificial Intelligence in Infertility



Dr. Charles Bormann

Lecture I: The Use of Artificial Intelligence in the IVF Laboratory

Dr. Charles Bormann, is a reproductive physiologist by training and the Director of the Assisted Reproductive Technology (ART) Laboratory at Massachusetts General Hospital. His clinical responsibilities are focused on managing the ART laboratory and assisting infertile couples conceive; achieving this by ensuring the safety of their gametes and embryos in vitro, and the provision of optimum conditions for their nurture in culture. These responsibilities require administering stringent quality control and quality assurance programs, as well as implementing quality improvement programs to maintain the highest standards of care at the forefront of this rapidly evolving field. Dr. Bormann is specifically interested in researching deep-learning AI-technology to help individualize patient care and assist in clinical/laboratory decision making.



Dr. Gerard Letterie

Lecture II: Three Ways of Knowing: The Integration of Clinical Expertise, Evidence-based Medicine, and Artificial Intelligence in Assisted Reproductive Technologies

Dr. Gerard Letterie is a board-certified reproductive endocrinologist; a partner in Seattle Reproductive Medicine, Seattle WA; and Co-Founder of Quick Step Analytics LLC. He completed training in obstetrics and gynecology at Walter Reed Hospital in Washington DC and a fellowship in REI at the National Institutes of Health, Bethesda, MD. He serves on various educational committees within this specialty, including being an oral examiner for the American Board of Obstetrics and Gynecology. He is an ad hoc reviewer and editor for several medical and scientific journals: these include, but not limited to, Fertility and Sterility; JARG; Obstetrics and Gynecology; and RBMO. He is the author of over 125 publications in peer-reviewed journals, abstracts, chapters, invited reviews, monographs, several editorials, and Op Ed's. His interests include risk management and medical liability; computers in clinical care; and image analysis of oocytes and embryos. Outside of his specialty, he enjoys sculling and on most days, can be found on the water at five in the morning. However, he most enjoys spending time with his family: his wife Jan Chow and their two daughters.

VAN CAMPENHOUT MEMORIAL LECTURE

DIETER EGLI, PhD (New York, USA); NATHAN TREFF, PhD, HCLD (New Jersey, USA); et DEBORAH MONEY, MD, FRCSC (Vancouver, CA)

Microbiome & Receptivity



Dr. Dieter Egli

Lecture I: Genome Instability in the Human Preimplantation Embryo

Dr. Dieter Egli grew up in Switzerland and under the mentorship of Prof. Walter Schaffner, received his Ph.D. in Molecular Biology in 2003 from the University of Zurich. Following this, he joined the laboratory of Prof. Kevin Eggan at Harvard University to study somatic cell reprogramming as a postdoctoral fellow. Joining the New York Stem Cell Foundation Research Institute as one of the founding members in 2008; first as a postdoctoral fellow and then as an independent group leader, his group made numerous advances. In 2011, he became an independent group leader at the New York Stem Cell Foundation Research Institute and today, is the Maimonides Assistant Professor of Developmental Cell Biology at Columbia University Medical Center. His laboratory studies include genome stability in early development, somatic cell reprogramming, and cell differentiation.



Dr. Nathan Treff

Lecture II: Polygenic Scoring of Embryos

Dr. Nathan Treff received his PhD in Biochemistry from Washington State University in 2003; performed postdoctoral fellowships in embryonic stem cell biology at the University of Wisconsin-Madison in 2004 and reproductive genetics at EMD Serono in 2005. Previously, he served as a Research Director at RMA of New Jersey for over ten years. He is currently Board Certified (ABB) in molecular diagnostics as a High Complexity Laboratory Director; a co-founder, the CSO, and Clinical Laboratory Director of Genomic Prediction; and an associate professor at Rutgers University. He also serves as a senior editor of Fertility and Sterility Science and JARG; has published over 100 peer reviewed papers in reproductive genetics; and has received seven awards from the ASRM. His research on PGT has been reported on by the Wall Street Journal, New York Times, Forbes, and the Economist, among other media outlets.



Dr. Deborah Money

Lecture III: The Impact of the Microbiome on Reproductive Outcome

Dr. Deborah Money she works as an active clinician scientist based at the Women’s Health Research Institute, where she has developed a Reproductive Infectious Diseases research program with several large-multicentered research projects; exploring topics such as the maternal/infant microbiome, HIV in women, and HPV in HIV. She has published more than 200 peer-reviewed publications and has received more than \$29M in peer-reviewed funding. At the onset of the COVID-19 pandemic, Dr. Money pivoted her research group and became the lead for CANCOVID-Preg: a Canada-wide surveillance program studying COVID-19 in pregnant women and their infants. She is also on the COVID-19 Federal Immunity Task Force and is the lead for a pan-Canadian COVID-19 sousveillance study using antenatal blood samples. She is now establishing a Canadian vaccine registry to study the safety and effectiveness of the COVID-19 vaccines in pregnancy.

JOHN COLLINS LECTURE

MARIE-MADELEINE DOLMANS, MD (Brussels, BE); EMILY KOERT, PhD (Copenhagen, DE); Ms. MONIQUE SHEBBEARE, JD (Vancouver, CA); and Dr. ANA COBO, PhD (Valencia, ESP)

Cryopreservation



Dr. Marie-Madeleine Dolmans

Lecture I: Practical Aspects of Starting an Ovarian Tissue Cryopreservation Program

Dr. Marie-Madeleine Dolmans is a gynaecologist, head of the Gynecology Research Laboratory at the Université Catholique de Louvain in Brussels since 2012, and “Chef de Clinique” at the Cliniques Universitaires Saint Luc, Brussels, Belgium. She works part-time in research and part-time in clinics. She has been an invited speaker at many international fertility congresses, including ESHRE, COGI, and ESGE. She is President of the International Society for Fertility Preservation and additionally serves on the editorial board of Fertility and Sterility; the Journal of Assisted Reproduction and Genetics; and JCM. Her extensive publication work covers fertility aspects of ovarian tissue cryopreservation, fibroids, and endometriosis.



Dr. Emily Koert

Lecture II: Psychosocial Aspects of Oocyte Preservation

Dr. Emily Koert is a registered psychologist and a Marie Skłodowska-Curie Postdoctoral Fellow at the Department of Public Health, University of Copenhagen, Denmark. Previously, she was an adjunct professor in the Department of Educational and Counselling Psychology at the University of British Columbia, Vancouver, Canada. Her research and clinical work, which is focused in the field of reproductive health, includes psychosocial consequences of infertility; pregnancy loss; use of assisted reproduction and childlessness; family formation and childbearing decision-making; and fertility awareness and education. Emily specializes in qualitative and mixed methods research, with a focus on conducting research that has implications for intervention development and clinical practice in public health, health care, and psychology to reduce the negative mental health consequences of infertility, pregnancy loss, and childlessness; and to promote informed and satisfying fertility decision-making in reproductive-aged men and women. Emily is a member of the International Fertility Education Initiative, which is a global task force to improve fertility and reproductive health awareness through education. She has presented at numerous national and international conferences and has published over 25 peer-reviewed papers.



Ms. Monique Shebbeare

Lecture III: Legal Aspects of Oocyte Preservation

Ms. Monique Shebbeare is a fertility, parentage, and wills and estates lawyer, living in Vancouver, who has practiced law for 16 years. Monique grew up in Vancouver before doing her undergraduate degree in psychology at McGill University and her law degree at the University of Toronto. She became interested in fertility law after she had her own child through donor conception. Her work in fertility and parentage law encompasses helping clients with sperm/egg/embryo donor agreements, surrogacy agreements, multi-parent agreements, and also involves providing advice on legal parentage and clinic consents. She was recently co-counsel on a BC Supreme Court case legally recognizing the third parent in a polyamorous family. Among other issues in her wills practice, Monique helps clients with sperm, eggs, or embryos stored at clinics.



Dr. Ana Cobo

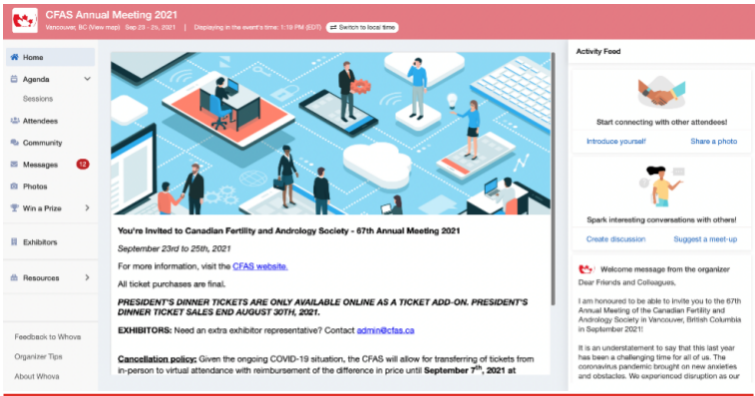
Lecture IV: Oocyte Vitrification for Elective Fertility Preservation and Other Indications

Dr. Ana Cobo graduated from the University del Valle in Colombia in 1988. She obtained her Master of Biological Sciences in Reproduction Biology degree at the University of Chile in 1994. Upon joining the Instituto Valenciano de Infertilidad (IVI) in 1995, she moved to Spain; later obtaining a Master of Human Reproduction degree at the University of Valencia, Spain, in 1998. She completed her doctorate and received her PhD degree from the University of Valencia in 2008. She has worked as an embryologist for more than 20 years and became interested in oocytes cryopreservation in the early 1990s while completing her Master's degree and doctoral thesis works on this subject. She is currently a senior embryologist at the IVI in Valencia, where she is the Director of the Cryobiology Unit in the IVF lab. She has published over 110 articles and book chapters, mostly on cryopreservation in IVF. Her teaching activities focus on directing the continuous training program in the vitrification of oocytes and embryos at the IVI learning center. She is a professor in the postgraduate master course in biotechnology of human reproduction at the IVI University Institute, which is ascribed to the University of Valencia.

MEETING HIGHLIGHTS

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PRESIDENT'S DINNER

Join us for the President's Dinner

Friday, September 24th, 2021

From 7pm to midnight

In the Stanley Park ballroom at The Westin Bayshore

\$140 per person

The President's Dinner is an excellent opportunity to meet and share with professionals in the field of fertility from across Canada and the world.

It is also a time to celebrate and raise your glass in recognition of our colleagues' accomplishments!

Thursday, September 23

Friday, September 24

Saturday, September 25

LEARNING OBJECTIVES

At the conclusion of the Annual Meeting, participants should be able:

- 1 To review new technologies in the field of fertility and their role in providing patient care.
- 2 To discuss different aspects of oocyte cryopreservation; both elective and oncopreservation, from a medical and psychosocial perspective.
- 3 To review various aspects of fertility care, including but not limited to, the role of adenomyosis in infertility, different attributes of IVF protocols, and the role of artificial intelligence in fertility care.

THURSDAY, SEPTEMBER 23RD

ANNUAL MEETING PROGRAM

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| 1:30 pm | OPENING LECTURE <i>Co-Chairs: Jason Hitkari & Goldi Gill</i> |
| 1:30 – 1:45 pm | Opening Remarks, Land Acknowledgement, & Awards Ceremony – <i>Stanley Park Ballroom</i> Jason Hitkari, MD (<i>Vancouver, BC</i>) |
| 1:45 – 2:45 pm | "The Post-Pandemic Health Care Landscape: How COVID-19 Shifted Public and Political Priorities" – <i>Stanley Park Ballroom</i> André Picard |
| 2:45 – 4:15 pm | SYMPOSIUM I: Clinical & Laboratory Use of Artificial Intelligence in Infertility – <i>Stanley Park Ballroom</i> <i>Co-Chairs: Jason Hitkari & Dan Nayot</i> |
| 2:45 – 3:30 pm | Lecture I: "The Use of Artificial Intelligence in the IVF Laboratory" Charles Bormann, PhD (<i>Boston, MA</i>) |
| 3:30 – 4:15 pm | Lecture II: "Three Ways of Knowing: The Integration of Clinical Expertise, Evidence-based Medicine, and Artificial Intelligence in Assisted Reproductive Technologies" Gerard Lettierie, MD (<i>Seattle, WA</i>) |
| 4:15 – 4:45 pm | HEALTH BREAK – <i>Bayshore Grand Foyer</i> |
| 4:45 – 5:30 pm | CARTR PLUS REPORT- Canadian IVF Outcomes for 2019 – <i>Stanley Park Ballroom</i> <i>Chair: Cliff Librach</i> |
| 5:30 – 7:00 pm | POSTER PRESENTATION RECEPTION – <i>Bayshore Grand Foyer</i> |

ANNUAL MEETING PROGRAM

| | |
|---------------------|---|
| 7:30 – 8:00 am | Light Breakfast – Bayshore Grand Foyer |
| 7:30 am – 4:00 pm | Registration |
| 8:00 am – 4:00 pm | EXHIBIT |
| 8:00 – 10:30 am | Van Campenhout Memorial Lecture - Stanley Park Ballroom SYMPOSIUM II: Genetics and the Microbiome Co-Chairs: Mohammed Bedaiwy & Heather Shapiro |
| 8:15 – 9:00 am | Lecture I: "Genome Instability in the Human Preimplantation Embryo" Dieter Egli, PhD (New York, NY) |
| 9:00– 9:45 am | Lecture II: "Polygenic Scoring of Embryos" Nathan Treff, PhD (New Brunswick, NJ) |
| 9:45 – 10:30 am | Lecture III: "The Impact of the Microbiome on Reproductive Outcome" Deborah Money, MD (Vancouver, BC) |
| 9:30 – 10:30 am | Counselling Special Interest Group Roundtable: "Pros and Cons of Finding Donors Online" Angela Lawson, PhD (Evanston, IL) |
| 10:30 – 11:00 am | HEALTH BREAK – Bayshore Grand Foyer |
| 11:00 am – 12:30 pm | ORAL COMMUNICATION– Basic Science and Humanities I – Grand Ballroom D Moderated by: Marc-André Sirard |
| 11:00 – 11:20 am | "Deep Learning Analysis on Endometrial Histology as a Predictive Tool for Pregnancy Outcome of Frozen Embryo Transfer" Tiantian Li ¹ , Renjie Liao ² , Crystal Chan ³ , Ellen Greenblatt ³ ¹ Lunenfeld-Tanenbaum Research Institute (LTRI), Sinai Health System, Toronto, ON; ² Department of Computer Science, University of Toronto, Toronto, ON; ³ Mount Sinai Fertility (MSF), Sinai Health System, Toronto, ON |
| 11:20 - 11:40am | "Patient Perspectives in a Large Single Site Embryo Donation Program" Anya Sion, Noga Weizman, Samantha Yee, Anushka Kuwar, Evening K'necht, Clifford Librach CReATe Fertility Clinic, Toronto, ON |
| 11:40 am – 12:00 pm | "BPA, but Not BPS, Affects AMH Signaling Pathway in Bovine Granulosa Cells" Vivien Truong, Rushi Patel, Reem Sabry, Angela Saleh, Laura Favetta University of Guelph, Guelph, ON |
| 12:00 – 12:20 pm | "Mosaicism and Aneuploidy Concordance Between Cell-free Embryonic DNA in the Spent Medium Combined with Blastocoel Fluid and Trophectoderm Biopsy DNA" Valeriy Kuznyetsov, Svetlana Madjunkova, Iryna Kuznyetsova, Clifford Librach CReATe Fertility Centre, Toronto, ON |

ANNUAL MEETING PROGRAM

| | |
|---------------------|--|
| 11:00 am – 12:30 pm | ORAL COMMUNICATION– Clinical Research I – Stanley Park Ballroom Moderated by: Simon Phillips |
| 11:00 – 11:20 am | "Time-lapse KIDScore Day 5 Can Be Used as a Primary Marker to Predict Embryo Pregnancy Potential in Fresh and Frozen Single Embryo Transfers" Alina Tartia ¹ , Clara Wu ^{1,2} , Samantha Torrance ¹ , Jenna Gale ^{1,2} , Lina Al-Qahwaji ¹ , Marie-Claude Laveille ^{1,2} ¹ Ottawa Fertility Centre, Ottawa, ON; ² University of Ottawa, Ottawa, ON |
| 11:20 – 11:40 am | "National Survey on the Management of Non-Euploid Embryos" Shirin Dason ¹ , Crystal Chan ¹ , Rhonda Zwingerman ² , Tiantian Li ³ , David Gurau ⁴ , Heather Shapiro ³ , Maivys Garcia ⁵ , Marta Wais ⁵ , Ruth Ronn ⁶ , Rong Huang ³ , Zhong Cheng Luo ³ , Paul Chang ⁶ ¹ University of Toronto, Toronto, ON; ² Twig Fertility, Toronto, ON; ³ Mount Sinai Hospital, Toronto, ON; ⁴ Procrea Fertility, Vaughan, ON; ⁵ Markham Fertility Centre, Markham, ON; ⁶ Trio Fertility, Toronto, ON |
| 11:40am – 12:00pm | "Static Morphology of Mosaic Embryos is a Prognostic Factor of Transfer Outcome" Mitko Madjunkov ^{1,2} , Hanna Balakier ¹ , Rina Abramov ¹ , Ran Antes ¹ , Siwei Chen ¹ , Svetlana Madjunkova ^{1,2} , Clifford Librach ^{1,2} ¹ Create Fertility Centre, Toronto, ON; ² University of Toronto, Toronto, ON |
| 12:00 – 12:20 pm | "An Assessment of the Complexities of Reproduction Decision-Making Between BRCA-Positive Patients and Healthcare Providers" Shirin Dason ¹ , Leah Drost ² , Ellen Greenblatt ² , Adena Scheer ³ , Jinglan Han ⁴ , Mara Sobel ² , Lisa Allen ⁵ , Michelle Jacobson ⁵ , Tanya Doshi ² , Erika Wolff ² , Eileen McMahon ² , Claire Jones ² ¹ University of Toronto, Toronto, ON; ² Mount Sinai Hospital, Toronto, ON; ³ St. Michaels Hospital, Toronto, ON; ⁴ University of Saskatchewan, Saskatoon, SK; ⁵ Women's College Hospital, Toronto, ON |
| 12:30 – 1:30 pm | LUNCH – Bayshore Grand Foyer |
| 1:30 – 3:30 pm | CONCURRENT SESSION A – The Grand Ballroom D Co-Chairs: Alexander Lagunov & Jason Au |
| 1:30 – 2:10 pm | "Non-Invasive Preimplantation Genetic Testing Update and Future Directions" Catherine Racowsky, PhD (Boston, MA) |
| 2:10 – 2:50 pm | "Endocrine Disruptors and Fertility: Evidence and Next Steps" Lora Shahine, MD (Seattle WA) |
| 2:50 – 3:30 pm | "Personalizing Ovarian Stimulation" Nikolaos Polyzos, MD, PhD (Barcelona, ESP) |
| 1:30 – 3:30 pm | CONCURRENT SESSION B – Stanley Park Ballroom 1 & 2 Chair: Jeff Roberts |

ANNUAL MEETING PROGRAM

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| 1:30 – 2:10 pm | "Embryo Disposition: Socio-Ethical Aspects" Vardit Ravitsky, PhD (Montréal, QC) |
| 2:10 – 2:50 pm | "The UK Longitudinal Study of ART Families" Vasanti Jadva, PhD (Cambridge, UK) |
| 2:50 – 3:30 pm | "The Criminalization of Payments for Donors and Gestational Carriers" Bernard Dickens, LLD, PhD (Toronto, ON) |
| 1:30 – 3:30 pm | CONCURRENT SESSION C – Stanley Park Ballroom 3 Co-Chairs: Svetlana Madjunkova & Scot Hamilton |
| 1:30 – 2:10 pm | "Gonadotropin Re-Routing and Ovarian Function" T. Rajendra Kumar, PhD (Aurora, CO) |
| 2:10 – 2:50 pm | "Novel Microarchitecture and Hierarchical Stem Cell Organization of Human Endometrial Glands; Implications for Endometrial Regeneration and Pathologies" Dharani Hapangama, MD (Liverpool, UK) |
| 2:50 – 3:30 pm | "Adjuncts in the IVF Laboratory: Where is the Evidence for "Add-On" Intervention?" Joyce Harper, PhD (London, UK) |
| 3:30 – 4:00 pm | HEALTH BREAK AT THE EXHIBIT – Metro Ballroom |
| 4:00 – 4:30 pm | CSTATE OF THE ART – Stanley Park Ballroom Chair: Jason Hitkari "Eggs and Sperm from a Buccal Smear" Eli Y. Adashi, MD (Providence, RI) |
| 4:30 – 5:30 pm | ANNUAL GENERAL MEETING - Open to all Members in Good Standing – The Grand Ballroom D |
| 5:30 – 7:00 pm | POSTER PRESENTATION – Bayshore Grand Foyer |
| 7:00 pm – 12:00 am | PRESIDENT’S DINNER – Stanley Park Ballroom |

ANNUAL MEETING PROGRAM

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|---------------------|--|
| 8:00 am – 4:00 pm | EXHIBIT |
| 8:00 – 10:30 am | JOHN COLLINS LECTURE – Stanley Park Ballroom SYMPOSIUM III: Cryopreservation Co-Chairs: Shu Foong & Beth Taylor |
| 8:00– 8:30 am | Lecture I: "Practical Aspects of Starting an Ovarian Tissue Cryopreservation Program" Marie-Madeleine Dolmans, MD, PhD (Brussels, BE) |
| 8:30 – 9:30 am | Lecture II: "Psychological Aspects of Egg Freezing" Emily Koerts, PhD (Copenhagen, DE) |
| 9:00 – 9:30 am | Lecture III: "Legal Aspects of Oocyte Preservation" Monique Shebbeare, LLB (Vancouver, BC) |
| 9:30 – 10:00 am | Lecture IV: "Oocyte Vitrification for Elective Fertility Preservation and Other Indications" Ana Cobo, PhD (Valencia, ESP) |
| 10:00 – 10:30 am | Symposium III Q&A Session |
| 10:30– 11:00 am | HEALTH BREAK – Bayshore Grand Foyer |
| 11:00 am – 12:30 pm | ORAL COMMUNICATION- Clinical Research II – The Grand Ballroom D Moderated by: Sony Sierra |
| 11:00 – 11:20 am | "Development of an Integrated LIMS and Electronic Database for High Throughput Preimplantation and Fertility Genetic Testing in the CReATe Reproductive Genetics Laboratory" Ran Antes¹, Svetlana Madjunkova^{1,2}, Clifford Librach^{1,2} ¹ CReATe Fertility Centre, Toronto, ON; ² University of Toronto, Toronto, ON |
| 11:20 – 11:40 am | "The Effect of the Ontario Fertility Program on the Utilization of and Outcomes from In Vitro Fertilization in Women of Advanced Reproductive Age" Arielle Cantor¹, Lynn Meng ², Andrea Lanes², Ellen Greenblatt¹ ¹ Mount Sinai Fertility, Toronto, ON; ² Better Outcomes Registry & Network (BORN) Ontario, Ottawa, ON |
| 11:40 am – 12:00 pm | "The Proportion of Live Births Following In Vitro Fertilization is Higher in Women with a History of Recurrent Pregnancy loss: A Population Study" Kristy Cho¹, Arianne Albert², Mohamed Bedaiwy¹ ¹ University of British Columbia, Vancouver, BC; ² Women’s Health Research Institute, Vancouver, BC |
| 12:00– 12:20 pm | "Evaluation of Microfluidics-Based Sperm Separation Device to Isolate Spermatozoa for ART" Julia Louis, Bill Yee, Sophia Rahimi, Sahib Shahani, Jacqueline Dynes, Sergey Moskovtsev, Clifford Librach CReATe Fertility Centre, Toronto, ON |

ANNUAL MEETING PROGRAM

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|---------------------|---|
| 11:00 am – 12:30 pm | ORAL COMMUNICATION– Basic Science II – Stanley Park Ballroom 1 & 2 <i>Moderated by: Greg FitzHarris</i> |
| 11:00 – 11:20 am | “Human Platelet Lysate Increases Attachment of Trophoblast Spheroids to Primary Endometrial Epithelial Cells from Patients with Recurrent Implantation Failure” Tina Tu-Thu Ngoc Nguyen^{1,2}, Yat Sze Sheila Kwok², Stewart Russell², Clifford Librach² ¹ University of Toronto, Toronto, ON; ² CReATe Fertility Centre, Toronto, ON |
| 11:20 – 11:40 am | “Advancements in the CReATe Biobank: The Certified Resource for Reproductive Biology Research” Sahar Jahangiri, Zeinab Sadrosadat, Sydney Wells, Malaika Gomes, Clifford Librach CReATe Fertility Centre, Toronto, ON |
| 11:40 am – 12:00 pm | “Human Induced Pluripotent Stem Cells Reprogrammed from First Trimester Human Umbilical Cord Perivascular Cells: Model for Development and High-Throughput Drug Screening” Mirabelle Ho, Miriel Ho, Siwei Chen, Ran Antes, Svetlana Madjunkova, Clifford Librach CReATe Fertility Centre, Toronto, ON |
| 12:00 – 12:20 pm | “Canadian Fertility Nurses’ Learning Needs” Danielle Dubois¹, Anne-Laure Nivet², Alayna Lea² ¹ Ottawa Fertility Centre, Ottawa, ON; ² EMD Serono, Mississauga, ON |
| 12:30 – 1:30 pm | LUNCH AT THE EXHIBIT HALL – The Grand Ballroom ABCEF and Corridor |
| 1:30 – 3:30 pm | CONCURRENT SESSION D – The Grand Ballroom D <i>Co-Chairs: Ellen Greenblatt & Gord McTavish</i> |
| 1:30 – 2:10 pm | “Adenomyosis-Associated Infertility” Mohamed Bedaiwy, MD, PhD (Vancouver, BC) |
| 2:10 – 2:50 pm | “How the Field of Quality Improvement & Patient Safety Can Help the Fertility Clinic: Reduce Adverse Events, Increase Efficiency, & Avoid Mis-Identification Errors” Rebecca Arthur, MD (Toronto, ON) |
| 2:50 – 3:30 pm | “A Review of Ovulation Triggers, and How We Should Use Them” Gary Nakhuda, MD (Vancouver, BC) |

ANNUAL MEETING PROGRAM

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| 1:30 – 3:30 pm | CONCURRENT SESSION E – Stanley Park Ballroom 1 & 2 <i>Chair: Nicole Lee</i> |
| 1:30 – 2:10 pm | “Risk Perception and Fertility Patients’ Attitude Towards COVID-19” Suzanne Brown, PhD (Windsor, ON) |
| 2:10 – 2:50 pm | “Trauma Informed Care in Reproductive Medicine” Angela Lawson, PhD (Evanston, IL) |
| 2:50 – 3:30 pm | “Navigating the Personal and Professional Experience of Bias and Racism in Healthcare” Javeed Sukhera, MD, PhD (London, ON) |
| 1:30 – 3:30 pm | CONCURRENT SESSION F – Stanley Park Ballroom 3 <i>Co-Chairs: Doron Shmorgun & Al Yuzpe</i> |
| 1:30 – 2:10 pm | “Chromosomal Mosaicism in Human Blastocysts: The Ultimate Diagnostic Dilemma?” Mina Popovic, PhD (Barcelona, ESP) |
| 2:10 – 2:50 pm | “Predicting Long-Term Consequences of Pre-Pubertal Exposure to Chemical on Male Fertility” Geraldine Delbes, PhD (Montréal, QC) |
| 2:50 – 3:30 pm | “Artificial Intelligence in the IVF Lab” Cristina Hickman, PhD (London, UK) |
| 3:30 – 4:00 pm | HEALTH BREAK – Bayshore Grand Foyer |
| 4:00 – 4:45 pm | DEBATE – All Patients Should Receive a Personalized Endometrial Assessment Prior to Embryo Transfer – Stanley Park Ballroom <i>Chair: Jason Hitkari</i> Thomas Hannam, MD (Toronto, ON) Marjorie Dixon, MD (Toronto, ON) |
| 4:45 – 5:30 pm | CLOSING CEREMONY – Stanley Park Ballroom <i>Animé par : Jason Hitkari</i> |

THURSDAY POSTERS SESSION

- 101"Deep Learning Analysis on Endometrial Histology as a Predictive Tool for Pregnancy Outcome of Frozen Embryo Transfer". **Tiantian Li, Renjie Liao, Crystal Chan, Ellen Greenblatt**
- 102"Patient Perspectives in a Large Single Site Embryo Donation Program". **Anya Sion, Noga Weizman, Samantha Yee, Anushka Kuwar, Evening K'necht, Clifford Librach**
- 103"BPA, but not BPS, Affects AMH Signaling Pathway in Bovine Granulosa Cells". **Vivien Truong, Rushi Patel, Reem Sabry, Angela Saleh, Laura Favetta**
- 104Mosaicism and Aneuploidy Concordance Between Cell Free Embryonic DNA in the Spent Medium Combined with Blastocoel Fluid and Trophectoderm Biopsy DNA". **Valeriy Kuznyetsov, Svetlana Madjunkova, Iryna Kuznyetsova, Clifford Librach**
- 105Human Umbilical Cord Perivascular Cells (HUCPVC) Improve Pregnancy Rates in a Mouse Model of Natural Ovarian Aging". **Michal Dviri, Lianet Lopez, Mitko Madjunkov, Lilach Marom Haham, Adi Kuperman, Poonam Mander, Denis Gallagher, Andree Gauthier-Fisher, Clifford Librach**
- 106"So, Is This Going to Hurt?" **Bonnie Johnson, Parmelie Tessier, Sara-Helene Weinbuch, Neal Mahutte**
- 107"Intravenously Infused FTM HUCPVC Interact with Innate Immune Cells and Mediate a Systemic Reduction in Inflammatory Mediators in a Murine Model of Systemic Inflammation". **Hannah Shuster-Hyman, Fyyaz Siddiqui, Denis Gallagher, Andrée Gauthier-Fisher, Clifford Librach**
- 108"Normalizing the Discontinuation of Fertility Treatment". **Andrea Carson, Fiona Webster, Jessica Polzer, Sandra Bamford**
- 109"Specific Gene Expression Response in KGN Human Granulosa Cells in Response to Different Inflammatory Stimuli". **Chloe Fortin, Patricia Tremblay, Marc-André Sirard**
- 110"In Vitro Transplantation: Novel Method in Infertility Treatment by Spermatogonial Stem Cell". **Mahdi Mohaqiq, Mansoureh Movahedin, Zohreh Mazaheri**
- 111"The Human Embryo RNA Secretome". **Stewart Russell, Karen Menezes, Clifford Librach**
- 112"Bisphenols and Reactive Oxygen Species in Oocytes, Sperm, and Granulosa Cells". **Mimi Nguyen, Reem Sabry, Kirstin Surbek, Elizabeth St. John, Laura Favetta**
- 201"Time-lapse KIDScore Day 5 Can Be Used as a Primary Marker to Predict Embryo Pregnancy Potential in Fresh and Frozen Single Embryo Transfers". **Alina Tartia, Clara Wu, Samantha Torrance, Jenna Gale, Lina Al-Qahwaji, Marie-Claude Laveille**
- 202"National Survey on the Management of Non-Euploid Embryos". **Shirin Dason, Crystal Chan1, Rhonda Zwingerman2, Tiantian Li3, David Gurau4, Heather Shapiro3, Maivys Garcia5, Marta Wais5, Ruth Ronn6, Rong Huang3, Zhong Cheng Luo3, Paul Chang**
- 203"Static Morphology of Mosaic Embryos is a Prognostic Factor of Transfer Outcome". **Mitko Madjunkov, Hanna Balakier, Rina Abramov, Ran Antes, Siwei Chen, Svetlana Madjunkova, Clifford Librach**

THURSDAY POSTERS SESSION

- 204"An Assessment of the Complexities of Reproduction Decision-Making Between BRCA-Positive Patients and Healthcare Providers". **Shirin Dason, Leah Drost, Ellen Greenblatt, Adena Scheer, Jinglan Han, Mara Sobel, Lisa Allen, Michelle Jacobson, Tanya Doshi, Erika Wolff, Eileen McMahon, Claire Jones**
- 205"The Clinical Outcomes of Older and Younger Patients with Different Indications Underwent Preimplantation Genetic Testing for Aneuploidy (PGT-A) in One Center". **Xiao Yun Zhang, Jin-Tae Chung, William Buckett, Asangla Ao**
- 206"How Does Advanced Age Interact with the Requirement for IVF on Pregnancy Complications?" **Ahmad Badeghiesh, Haitham Baghlaf, Michael Dahan**
- 207"Patients' and Providers' Perspectives on Elective Egg Freezing Decision-Making". **Leah Drost, Shirin Dason, Jinglan Han, Adena Scheer, Ellen Greenblatt, Claire Jones**
- 208"Preimplantation Genetic Testing for Triple Repeat Expansion Disorders". **Li Zhang, Shahram Teimourian, Gordon Hua, Woon-Young Son, William Buckett, Asangla Ao**
- 209"Prevalence of Antiphospholipid Syndrome and Live Birth Rate Following Anti-Thrombotic Treatment in a Cohort of 1443 Patients with Recurrent Pregnancy Loss". **Allyssa Hooper, Ulrike Mayer, Arianne Albert, Mohamed Bedaiwy**
- 210"Adenomyosis and Pregnancy Outcome in Patients Undergoing Assisted Reproductive Treatment with Donor Oocytes". **Madalina Maxim, Shirin Dason, Alex Hartman, Ella Huszti, Qixuan Li, Salina Kanji, Mara Sobel, Crystal Chan**
- 211"The Use of ICSI for Non-Male Factor Infertility: A Multicentre Study". **Miguel Russo, Michelle Shin, Jenna Gale, Jennifer McDowall, Marie-Claude Léveillé, Kristy Cho, Ellen Greenblatt**
- 212"Live Birth Rates After Resolution of Endometrial Cavity Fluid in Frozen Embryo Transfer Cycles". **Vincent Nguyen, Aaron Jackson, Jenna Gale**
- 213"Reduced Live Birth Rates After Embryo Transfer Among Patients with Prior Cesarean Delivery: A Retrospective Study". **Jenna Gale, Brigitte Corran, Vanessa Bacal, Vincent Nguyen, Jeffrey Haebe, Shmorgun Doron**
- 214"Effect of Parental Origin of Robersonian and Reciprocal Translocation Carriers on the Outcome of Day 3 and Day 5/6 PGT-SR Embryos". **Arthega Selvarajan, Shahram Teimourian, Xiao Yun Zhang, Èvicka Veilleux, Asangla Ao**
- 215"Comparative Embryo Outcomes Following Extending Embryo Culture to Day 6: A Quality Improvement Study". **Clara Wu, Molly Campbell, Doron Shmorgun, Samantha Torrance, Trish Dinh, Marie-Claude Léveillé**
- 216"Outcomes of Mosaic Embryo Transfers from a Canadian Private Fertility Centre". **Rachel Butler, Colleen Guimond, Sarah Neil, Chen Jing, Gary Nakhuda**
- 217"Eugin Clinic's Experience of Expanded Screening for Genetic Diseases Prior to ART". **Andreas Abraham-Zadeh, Maria Jesus Lopez**

THURSDAY POSTERS SESSION

- 218
- "How do Women with Polycystic Ovary Syndrome's Obstetrical and Neonatal Outcomes Compare to Controls when both have had Bariatric Surgery: A Population Based Study". **Mohammed Bazarah, Haitham Baghlaf, Ahmad Badegheish, Michael Dahan**
- 219
- "Retrospective Study Comparing IVF Antagonist Protocols Utilizing Highly Purified Human Menopausal Gonadotropin and Three Different Recombinant FSH Preparations". **Jaume Minano, Simon Phillips, Francois Bissonnette, Al Yuzpe, Isaac-Jacques Kadoch**
- 220
- "Genetic Counselling on Mosaic Embryos: Patient Concerns and a Genetic Counsellor's Perspective". **Nicole Logan, Svetlana Madjunkova, Clifford Librach**

FRIDAY POSTERS SESSION

- 113
- "Human Platelet Lysate Increases Attachment of Trophoblast Spheroids to Primary Endometrial Epithelial Cells from Patients with Recurrent Implantation Failure". **Tina Tu-Thu Ngoc Nguyen, Yat Sze Sheila Kwok, Stewart Russell, Clifford Librach**
- 114
- "Advancements in the CReATe Biobank, the Certified Resource for Reproductive Biology Research". **Sahar Jahangiri, Zeinab Sadrosadat, Sydney Wells, Malaika Gomes, Clifford Librach**
- 115
- "Human Induced Pluripotent Stem Cells Reprogrammed from First Trimester Human Umbilical Cord Perivascular Cells: Model for Development and High-Throughput Drug Screening". **Mirabelle Ho, Miriel Ho, Siwei Chen, Ran Antes, Svetlana Madjunkova, Clifford Librach**
- 116
- "Canadian Fertility Nurses' Learning Needs". **Danielle Dubois, Anne-Laure Nivet, Alayna Lea**
- 117
- "Identifying Facilitators and Barriers to Embracing Embryo Donation for Reproductive Use and Gaps in Current Literature". **Anushka Kuwar, Samantha Yee, Noga Weizman, Clifford Librach**
- 118
- "Which Psychotherapy Techniques Do Women Prefer for the Treatment of Infertility-related Distress?". **Jennifer Gordon, Sabrina Lybeck, Loveness Dube**
- 119
- "Fertilization and Blastocyst Rates in High DFI Patients and Normal DFI Patients Comparable with the Use of Magnetic Sperm Enrichment Technology (MaSE)". **Abdul Munaf Sultan Ahamed, R.M. Ruvana Fonseca, Musarrath Begum, Yaakov Bentov, Marjorie Dixon**
- 121
- "Human Umbilical Cord Perivascular Cells (HUCPVC) for Onco-Fertility Preservation: Assessing Effects in a Tumor-Bearing Mouse Model". **Lianet Lopez, Hannah Shuster-Hyman, Avishai Gasner, Hasna Khan, Eden Marco, Samar Mouazz, Amanda Kauffman, Denis Gallagher, Andree Gauthier-Fisher, Clifford Librach**

FRIDAY POSTERS SESSION

- 122
- "Optimization of Microbial DNA Extraction from Follicular Fluid for Metagenomics Analysis". **Adi Kuperman Shani, Ran Antes, Svetlana Madjunkova, Lilach Marom Haham, Clifford Librach**
- 123
- "BPA Affects DNMT3A Transcription, but Not Translation, in a MiR-21-dependent Manner in Bovine Granulosa Cells". **Reem Sabry, Nicholas Werry, Jonathan LaMarre, Laura Favetta**
- 221
- "Development of an Integrated LIMS and Electronic Database for High Throughput Preimplantation and Fertility Genetic Testing in the CReATe Reproductive Genetics Laboratory". **Ran Antes, Svetlana Madjunkova, Clifford Librach**
- 222
- "The Effect of the Ontario Fertility Program on the Utilization of and Outcomes from In Vitro Fertilization in Women of Advanced Reproductive Age". **Arielle Cantor, Lynn Meng, Andrea Lanes, Ellen Greenblatt**
- 223
- "The Proportion of Live Births Following In Vitro Fertilization is Higher in Women with a History of Recurrent Pregnancy Loss: A Population Study". **Kristy Cho, Arianne Albert, Mohamed Bedaiwy**
- 224
- "Evaluation of Microfluidics-Based Sperm Separation Device to Isolate Spermatozoa for ART". **Julia Louis, Bill Yee, Sophia Rahimi, Sahib Shahani, Jacqueline Dynes, Sergey Moskovtsev, Clifford Librach**
- 225
- "Fetal ANXA5 M2 Haplotype Contributes to Sporadic Miscarriage of Euploid Fetuses". **Mitko Madjunkov, Maureen Wilkinson, Siwei Chen, Svetlana Madjunkova, Clifford Librach**
- 226
- "Microfluidic Sperm Sorting Results in Differences in Progressive Motility, Hyperactivity, and Anti-Sperm Antibody Binding Compared to Density Gradient Centrifugation". **Megan Dufton, Sabrina Floccari, Frankie Slade, Glenys Gibson**
- 227
- "Complete Mitochondrial and Nuclear Genome Analysis of Human Embryos from a Single Trophectoderm Biopsy- An Optimized Approach". **Aashi Aggarwal, Ran Antes, Svetlana Madjunkova, Clifford Librach**
- 228
- "A Comparison of Reproductive Outcomes Following Frozen Embryo Transfer of Low-Quality Day 5 Embryos vs. High-Quality Day 6 Embryos". **Cassandra Greenberg, Vasilia Vastis, Shelly Palchik, Michael Neal, Evan Taerk, Mehrnoosh Faghieh**
- 229
- "Hyaluronan-Rich Supplemented Medium (HRSM) Does Not Improve Pregnancy Rate Among Frozen Embryo Transfer Cycles". **Charlie Rooney, Evan Taerk, Stacy Deniz, Mehrnoosh Faghieh, Shilpa Amin, Megan Karnis, Michael Neal**
- 230
- "Is Oocyte Cryopreservation a Good 'Insurance policy'? An Observational Study of Patients Under 38 Years of Age Using Violet Artificial Intelligence Live Birth Prediction Tool vs. Actual Live Birth Rates of Patients 38 and Over Undergoing IVF with ET". **Rahana Harjee, Jing Chen, Nadia Ouhibi, Sarah Edsall, Jeff Caudle, Salah Abdelgadir, Gary Nakhuda**
- 231
- "Elective Oocyte Preservation: An Eight-Year Single Center Experience". **Rahana Harjee, Jing Chen, Nadia Ouhibi, Sarah Edsall, Jeffrey Caudle, Salaheldin Abdelgadir, Gary Nakhuda**

FORTIFICATION

FRIDAY POSTERS SESSION

- 232 "Prediction Model of Pregnancy Outcomes in Artificial Insemination with Donor Cycles". **Ali Mourad, Wael Jamal, Jacques Kadoch, Simon Phillips, Eugenie Grosfils, Robert Hemmings**
- 233 "Fertility Preservation Outcome in Breast and Non-Breast Cancer Patients". **Suha Arab, William Buckett**
- 234 "Impact of Protocol Adjustments due to the COVID-19 Pandemic on Infertility Treatment for IVF and FET Outcomes". **Sofia Hussaini, Mike Neal, Vasilia Vasti, Megan Karnis, Evan Taerk, Shilpa Amin, Stacy Deniz, Mehrnoosh Faghih**
- 235 "Miniaturizing and Semi-Automating the Manual Clinical Veriseq-PGT-A Miseq Library-Preparation Protocol Using Mosquito®-HV". **Ana Novoselska, Ran Antes, Svetlana Madjunkova, Clifford Librach**
- 236 "Rekovele and Menopur Mixed Protocol for Controlled Ovarian Stimulation in IVF". **Winnie Yan, Tom Hannam, Nicole Lee, Alex Lagunov**
- 237 "Follitropin Delta: Dosing for Ovarian Stimulation and Insemination". **Suha Arab, Russell Frank, Jacob Ruiter, M. Haim Dahan**
- 238 "Are Intangible Factors, such as Stress, Impacting Miscarriage Rates in IVF Pregnancies During the COVID-19 Pandemic?" **Rahana Harjee, May Tian, Jason Au, Caitlin Dunne**
- 239 "Impact of Age and Fertility Status on the Consistency of Repeat Measurements of Sperm DNA Damage: A Single-Center, Prospective, Dual Visit Study". **Francis Petrella, Marie-Francis Lusignan, Maria San Gabriel, Claudio Pedraza, Joseph Moryousef, Wael Almajed, Peter Chan**

CFAS 68th Annual Meeting- September of 2022



The CFAS is pleased to announce that the next Annual Meeting, for 2022, will be held in Halifax, Nova Scotia on September 22nd, 23rd, and 24th. It will be hosted by our 2021-2022 CFAS Board of Directors President, Simon Phillips.

Stay tuned for next year's theme, pre-conference information, official invitation, and more information to be soon provided by the CFAS office!



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