

Welcome to Baylor College of Medicine, the host site for the 2023 National Contraception meeting.



Purpose: The purpose of this meeting is to provide an annual update on the state of contraception research from grantees from the Contraception Research Branch (CRB) of the *Eunice Kennedy Shriver* National Institute of Child Health and Human Development (NICHD), the Bill & Melinda Gates Foundation, the Male Contraceptive Initiative, and various scientists in the field. This year, we have placed emphasis on multi-purpose prevention technologies (MPTs). Scientists presenting at this meeting are developing novel medical device delivery technologies that could be used to deliver MPTs effectively.

Our 2023 meeting site is the seventh floor of the Jan & Dan Duncan Neurological Research Institute (NRI) located at 1250 Moursund Drive, Houston, TX, across the street from One Baylor Plaza, in the heart of the Texas Medical Center. This meeting brings together academic researchers, entrepreneurs, philanthropic organizations, and the federal government – an opportunity that is rare in the career of a graduate student or post-doctoral fellow. To capitalize on this, there are opportunities for interaction between trainees and scientists from various fields, including an abstract/poster competition.



See if you can find the USB plugs located at your seats in our new auditorium

2023 National Contraception Meeting Schedule of Events*

Pre-Meeting – Monday, 13 November 2023

5:00 – 7:00 pm	Registration Opens (Cullen Building, Rayzor Lounge, 1 Baylor Plaza Houston, TX 77030)
5:45 – 6:30 pm	Bayou City Winds (Rayzor Lounge) To attend via ZOOM: https://bcm.zoom.us/j/97154804418?pwd=ejVTRUNDa2VCOcthM3ZNaE5TcnVoZz09 Meeting ID: 97154804418; Password 815189
6:45 – 8:30 pm	Dinner (Rayzor Lounge)

Day 1 – Tuesday, 14 November 2023

<https://bcm.zoom.us/j/99347449282?pwd=RTFPNy9nc0NlaW95YzJnaGdUcU9Qdz09>

Meeting ID: 99347449282, Password: 265495

IN PERSON: 7th floor of NRI

7:30 – 8:00	Breakfast
8:00 – 10:00 Welcome Meeting Overview Introductory Talks	
8:00	Welcome <i>Martin Matzuk (Baylor College of Medicine)</i>
8:15	Human Contraceptive Antibody (HCA) <i>Deborah Anderson (Boston University)</i>
9:00	SMART Polymers <i>Giovanni Pauletti (University of Health Sciences and Pharmacy in St. Louis)</i>
9:30	mRNA Immunocontraception <i>Phillip Santangelo (Emory/GA Tech)</i>
10:00 – 10:30 Break	
10:30 – 12:15 Session 1	
10:30	NICHD Updates <i>Daniel Johnston (Eunice Kennedy Shriver Institute of Child Health and Human Development)</i>
11:00	Non-hormonal MPT IVR <i>Lisa Haddad (Population Council)</i>
11:45	Soluble Adenylyl Cyclase

Lonny Levin & Jochen Buck (*Cornell University*)

12:15 – 1:15 Lunch

1:15 – 3:45 Session 2

1:15 DEC-Tec and Enzyme Targets

Martin Matzuk (Baylor College of Medicine)

1:45 KLK3

Wipawee Winuthayanon (U Missouri)

2:15 Human DNA Sequencing

Thomas Garcia (Baylor College of Medicine)

2:30 Infertility – Contraceptive Target ID

Stephanie Seminara (Mass General)

2:45 ADAM

Kevin Eisenfrats (Contraline)

3:00 PBPK Modeling Approaches to the Female Reproductive Tract

Robert Bies (U Buffalo)

3:15 Triptonide

Wei Yan (Lindquist Institute)

3:30 An Innovative Barrier Device

Emily Man (Venova)

3:45 – 4:15 Break

Open time to attend the 15th & 16th ARM Lectures

ARM Lectures Introduction by Martin Matzuk (Baylor College of Medicine)

4:15 – 5:30

“Harnessing Innovative Engineering Tools to Develop

the Next Generation Multipurpose Prevention Technologies (MPTs)”

Rahima Benhabbour (University of North Carolina at Chapel Hill)

“Microneedle Patches for Self-Administered, Long-Acting Contraception”

Mark Prausnitz (Georgia Institute of Technology)

5:30 End of Day 1 Program

Dinner on your own, with a few of our nearby recommendations found on page 14; Additional suggestions beyond the 0.5 mile barrier are available from host

Day 2 – Wednesday, 15 November 2023

<https://bcm.zoom.us/j/99347449282?pwd=RTFPNy9nc0NlaW95YzJnaGdUcU9Qdz09>

Meeting ID: 99347449282, Password: 265495

IN PERSON: 7th floor of NRI

7:30 – 8:00	Breakfast
8:00–10:30	Session 3
8:00	MCI Updates Logan Nickels (<i>Male Contraceptive Initiative</i>)
8:15	IMPT Updates Bethany Young Holt (<i>Initiative for MPTs</i>)
8:30	An Ex Vivo Mammalian Ovulation Model to Identify Non-hormonal Contraceptive Candidates
9:00	Shuo Xiao (<i>Rutgers</i>) Antibody Contraception
10:00	Sam Lai & Keiichiro Kushiroy (<i>UNC & Mucommune</i>) BTB & Imaging MS Feng Li (<i>Baylor College of Medicine</i>)
10:30-11:00	Group Photo & Break
11:00–12:00	Session 4
11:00	KOMP Bob Braun (<i>Jackson Labs</i>)
11:30	BTF/CSOF Leigh Allen & Chris Lindsey (<i>NICHHD</i>)
11:45	BMGF Updates Stephen Ward (<i>Bill & Melinda Gates Foundation</i>)
12:00–12:45	Lunch
12:45 – 3:30	Session 5
12:45	Industry Panel (Moderated by Stephen Palmer, <i>Baylor College of Medicine</i>) Panelists: Greg Kopf (<i>FHI 360</i>); Diana Torgersen (<i>Organon</i>); Anke Mueller-Fahrnow (<i>Nuvisan</i>); Jenny Yip (<i>Adjuvant Capital</i>); Thomas Zollner (<i>Bayer</i>)
2:00	Na,K-ATPase Gustavo Blanco (<i>KUMC</i>)
2:30	Rete Testis Microcannulation Henry Wong (<i>UMN</i>)
3:00	SLO3 Modulators Celia Santi (<i>Wash U</i>)

3:30 – 3:45 Break	
3:45–5:00 Session 6	
3:45	ALDH1A1/A2 John Amory (<i>University of Washington</i>)
4:15	Utilizing the Spatial Total RNA Transcriptome of the Mammalian Testis to Investigate Novel Non-Hormonal Male Contraceptive Targets Young Scientist: Jelena Lujic (<i>Cornell University</i>)
4:30	Developing 2nd Generation Retinoic Acid Receptor Antagonists as Male Contraceptives Young Scientist: Rui Shi (<i>University of Minnesota</i>)
4:45	Advancing STK33 Inhibition via DNA-Encoded Chemistry Technology: Discovery of a Second Generation of Male Contraceptive Inhibitors Young Scientist: Qiuji Ye (<i>Baylor College of Medicine</i>)
5:15 – 7:30	Poster Session Cocktail Reception (6th & 7th Floors of the Jan & Dan Duncan Neurological Research Institute (NRI) located at 1250 Moursund Drive, Houston, TX)
7:30	End of Day 2 Program

<https://bcm.zoom.us/j/99347449282?pwd=RTFPNy9nc0NlaW95YzJnaGdUcU9Qdz09>

Meeting ID: 99347449282, Password: 265495

IN PERSON: 7th floor of NRI

7:30 – 8:00	Breakfast
8:00 – 10:30	Session 7
8:00	Biodegradable Implants for Contraception Jennifer Ayres & Kavita Nanda (FHI 360)
8:30	HIPK4 James Chen (Stanford)
9:00	Next Gen MPT: New Paradigms in Vaginal Drug Delivery John Moss (Oak Crest)
9:30	IZUMO1/Juno Nanobodies Jeff Lee (U Toronto)
10:00	Targeting MEIG1/PACRG interaction for Male-based Contraceptives Zhibing Zhang (Wayne State)
10:15	CRISPR KO Yoshi Fujihara (NCVC Japan)
10:30 - 10:45	Break
10:45 – 12:00	Session 8
10:45	Phenotypic Sperm Screen Chris Barratt (U Dundee)
11:15	Demand Forecasting for New Contraceptive Methods Steve Kretschmer (DesireLine)
11:45	Awards Session
11:55	Closing
12:00	Box Lunches Meeting Concludes
ENCORE AFTER LUNCH	MPT Workshop to follow Meeting (NRI 7th floor Auditorium)

**All content subject to change.*

Intentional efforts will be made to keep the meeting on time. The precise timing of presentations is provided for each speaker. Dr. Martin Matzuk, Dr. Stacey Kalovidouris, and Dr. Travis Kent will be our meeting timekeepers.

2023 National Contraception Meeting; Hosted by Baylor College of Medicine

Poster Session: Wednesday, 15 November 2023, 5:15-7:16 PM

6th & 7th Floors of the Jan & Dan Duncan Neurological Research Institute (NRI) located at 1250 Moursund Drive, Houston, TX

***Young Scientist Awardees who were selected to also deliver oral presentations on November 15th*

01	The Ovarian Contraceptive Discovery Initiative: A Collaborative, Multi-Disciplinary Infrastructure Focused on Developing Female Non-Hormonal Contraceptives Jeffrey Pea, Lauren Ataman, Shuo Xiao, Britt A. Goods, Amander T. Clark, Alex K. Shalek, OCDCI Trainees, Richard Nelson, John Proudfoot, and Francesca E. Duncan
02	A Prostate Specific Antigen (PSA) Inhibitor Shows Potential for a Non-Hormonal Contraceptive Method Jeffery A. Erickson, Prashanth Anamthathmakula, and Wipawee Winuthayanon
03	Using a Phenotypic Screening Assay of Mouse Egg Activation to Test Novel Wee2 Inhibitors for Non-Hormonal Contraceptive Applications Hoi Chang Lee, Prianka H. Hashim, Jeffrey T. Pea, Felicia Gray, Shelby Ellery, and Francesca E. Duncan
04	NEDDylation Regulates Oocyte Mitochondrial Function Avery A. Ahmed, Bethany K. Patton, Ernesto Salas, Sean Hartig, and Stephanie Pangas
05	Oocyte-Specific Wee1-like Protein Kinase 2 is Dispensable for Fertility in Mice Kaori Nozawa, Zian Liao, Yuhkoh Satouh, Ting Geng, Masahito Ikawa, Diana Monsivais, and Martin M. Matzuk
06	Evaluation of RBM46 as a Male Contraceptive Drug Target Brian P. Hermann, Nidferoke Uboh, Emma A. Gilbert, Shuo Zhou, Guiming Li, Yaxia Yuan, Daohong Zhou, and Christopher B. Geyer
07	Multipurpose Prevention Technologies for Contraception and Preventing HIV and Other Sexually Transmitted Infections: Regulatory Pathways and Challenges Logan M. Donaldson, Nicholas A. Murdock, Robin Schaefer, and Veronica Miller
08	Developing Nanobodies to Inhibit Sperm-Egg Fusion: Potential Non-Hormonal Contraceptives Juliette Lee, Karen K. Siu, Patrick Yip, and Jeffrey E. Lee
09	On-Demand Male Contraception via acute inhibition of Soluble Adenylyl Cyclase in Mice and Rabbits Melanie Balbach, Thomas Rossetti, Carla Ritagliati, Jochen Buck and Lonny R. Levin
10	PAR-23-193 (X01): Chemical Screening and Optimization Facility Christopher C. Lindsey
11**	Developing 2nd Generation Retinoic Acid Receptor Antagonists as Male Contraceptives Rui Shi, Noha Taher, Ehfazul Haque, Narsihmulu Cheryala, Jon Hawkinson and Gunda I. Georg
12	PDCL2 is Essential for Sperm Acrosome Formation and Male Fertility in Mice Yoshitaka Fujihara, Kiyonori Kobayashi, Ferheen Abbasi, Tsutomu Endo, Zhifeng Yu, Masahito Ikawa, and Martin M. Matzuk
13	NICHD's Biological Testing Facility for Contraceptive Research Development C. Leigh Allen, and Daniel S. Johnston
14	A Library of Small Molecule sAC Inhibitors Reveals Structural Determinants Affecting Lipid Bilayer Behavior Tom Rossetti Rian Kacmarczyk, Henry Sliker, Radda Rusinova, Lonny R. Levin, Jochen Buck, Olaf S. Anderson

15	Next Generation and First-in-line 3D Printed Intravaginal Ring for Non-Hormonal Contraception Sarah Anne Howard, Rima Januszewicz, Ava L. Cohen, S. Rahima Benhabbour
16	Bacterial Production of Recombinant Contraceptive Vaccine Antigen from CatSper Displayed on a Human Papilloma Virus-like Particle Kripa N. Nand, Thomas B. Jordan, Ximeng Yuan, Danielle A. Basore, Dmitri Zagoresvski, Charlie Clarke, Giffen Werner, Jae Yon Hwang, Hwafeng Wang, Jean-Ju Chung, Anlgone McKenna, Michael D. Jarvis, Gurmej Singh, and Chrisopher Bystroff
17	Developing HIPK4 PROTACs for Non-hormonal Male Contraception Zaile Zhuang, Riley Togashi, James K. Chen
18	Short Term Exposure of Sperm to Non-Hormonal Contraceptive Ingredients Has Long-Term Effects on Sperm Physiology Melissa A. White, Jacqueline L. Nelson-Harrington, Alexander J. Travis
19	Copper and Zinc Salts in Combination with Lactic Acid Inhibit Viral and Bacterial STI Pathogens Osaretin E. Asowata, Maria L. Visciano, Meropi Aravantinou, Abigail Meyer, José A. Fernández Romero, Caleb Ardizzone,, Alison J. Quayle, Narender Kumar, Dolores J. Lamb, Lisa B. Haddad, and Natalia Teleshova
20	A Multipurpose 'CZL' Vaginal Ring for Non-hormonal Contraception and STI/HIV Prevention Xinyu Zhao, Peter Boyd, Clare McCoy, Yahya Dallal Bashi, Xin Shen, Lisa B. Haddad, and R. Karl Malcolm
21	Developing Inhibitors of the Cation Channels of Sperm (CatSper) for Nonhormonal Male Contraception Yutong Liu, Gladis Sanchez, Gustavo Blanco and Gunda I. Georg
22	A Novel Tool to Investigate Transient and Reversible Disruption of Reproductive Function in vivo for Contraceptive Assessment Stephanie Tanis, Carolline Ascençao, Leah E. Simon, Audrey Xie, Leticia Smolka, Jelena Lujic, Marcus Smolka, and Paula E. Cohen
23	Meiotic Prophase I is a Suitable Target for Non-Hormonal Male Contraception Leah E. Simon, Stephanie Tanis, Adriana K. Alexander, Tegan S. Horan, Mercedes Carro, Roni Ben-Shlomo, Olivia Scaperotti, Jelena Lujic, and Paula E. Cohen
24	Potential Non-Hormonal Contraceptive, Triazole B1, Does Not Permeate Vaginal Epithelial Tissue in vitro and in vivo Erin Carulli and Wipawee Winuthayanon
25	Generation of Tagged Mouse Lines to Uncover Novel Targets and Partners of SMADs for Female Fertility Zian Liao, Suni Tang, Dominique I. Cope, Kaori Nozawa, Keisuke Shimada, Masahito Ikawa, Diana Monsivais, and Martin M. Matzuk
26	Safety Profile of YCT-529, a Clinical Candidate for Non-Hormonal Oral Male Contraception Development Nadja Mannowetz, Akash Bakshi
27	Establishing Exposure in Oviduct to Design Pharmacodynamic Experiments for SLO3 Inhibitors Valerie M. Kramlinger, Kayla J. Temple, Carrie K. Jones, Analisa Thompson Gray, Ping Li, Ronald McCarthy, Celia M. Santi, Craig W. Lindsley
28	Development of 17BIPHE2, an engineered cathelicidin antimicrobial peptide, into an multipurpose prevention (MPT) agent

	Nongnuj Tanphaichitr, Seung Gee Lee, Wongsakorn Kiattiburut, Nopparat Srakaew, Jonathan Angel, Rupert Kaul, Gwangshun Wang
29	Using <i>C. elegans</i> Fertilization to Discover New Male Contraceptive Candidates Elizabeth J. Gleason, Huiping Ling, and Steven W. L'Hernault
30	Establishing a Consensus Definition of Human Ovarian Tissue and Cell-Type Specificity to Identify Novel Gene Targets for Contraceptive Discovery Using Single-Cell RNA Sequencing Datasets Zhanell Nugmanova, Olha Kholod, Laasya Devi Annepureddy, Daniela Russo, Ruixu Huang, Caroline Kratka, Ariel Attias, Shuo Xiao, Francesca E. Duncan, and Brittany A. Goods
31**	Advancing STK33 Inhibition via DNA-Encoded Chemistry Technology: Discovery of a Second Generation of Male Contraceptive Inhibitors Qiuji Ye, Angela Ku, Yong Wang, Chandra S. Madasu, Ravikumar Jimmidi, Kurt M. Bohren, Murugesan Palaniappan, Jian-Yuan Li, Stacey A. Kalovidouris, Mingxing Teng, Zhi Tan, Damian W. Young, Srinivas Chamakuri, and Martin M. Matzuk
32	The Intravaginal Ring Acceptability Scale (IVR-AS): A New Tool to Improve and Standardize Vaginal Ring Acceptability Measurement Among End-Users Barbara A Friedland, Ann Gottert, Marlena Plagianos, Brady Ziemann, Jessica M Sales, Jessica Atrio, Shakti Shetty, Caio Sant'Anna Marinho, Ruth Merkatz, and Lisa B Haddad
33	Developing BRDT-1 Selective Inhibitors for Non-Hormonal Male Contraception Taimeng L. Liang, Gunda I. Georg
34	Human Trial of Neuroimmune Modulating Intrauterine Device To Reduce Pain Following Intrauterine Device Insertion Susan Florence Evans, Mark Rowland Hutchinson, Paul Edward Rolan, Karin Marie Innes, Nina Marika Stenroos, Pirjo Tuulikki Korteso, Annalisa Mary Jenkins and Mary Louise Hull
35	Safety and Pharmacokinetics of an Antiretroviral-Releasing Copper IUD for Non-Hormonal Long-Acting Multipurpose Prevention Technology Hannah M. VanBenschoten, My-Anh Doah, Mackenzie Roberts, Ian T. Suydam, Joyce Chen, Jeffrey T. Jensen, and Kim A. Woodrow
36	TMPRSS12 is a Non-Hormonal Sperm-Specific Contraceptive Target in the Female Reproductive Tract Courtney M. Sutton, Masahito Ikawa, Thomas X. Garcia, and Martin M. Matzuk
37	Synergistic Inhibitory Effects of Non-Hormonal Intravaginal Contraceptive APIs on Human Sperm Motility Patrick Singer, Lyann Mitchell, Alex Bolyakov, Larisa Kizima, Narender Kumar, Karl Malcom, Natasha Teleshova, Lisa Haddad and Dolores J. Lamb
38**	Utilizing the Spatial Total RNA Transcriptome of the Mammalian Testis to Investigate Novel Non-Hormonal Male Contraceptive Targets Jelena Lujic, David McKellar, Ioannis Ntekas, Stephanie L. Tanis, Leah E. Simon, Iwijn De Vlaminck, and Paula E. Cohen
39	Ex Vivo Ovulation Screening of a Protease Inhibitor Library to Identify Non-hormonal Contraceptive Candidates Jiyang Zhang, Pawat Pattarawat, Jeff Pea, Brittany A. Goods, Francesca E. Duncan and Shuo Xiao
40	Use Of Silicone-Based Sexual Lubricants For Male Contraception: Self- Assembly Of Reverse-Micelles Encapsulating Human Contraception Antibody

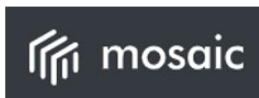
	Matthew T. Geib, James Doud, Joseph A. Politch, Deborah J. Anderson, and Joyce Y. Wong
41	Development of Long-Term Removable and Degradable Implants for Contraception in Resource-Limited Areas Nathan Lockwood, Matt Gilson, Henry Meyer, Richard Ohm, Celeste Ondich, Chris Monasco, Emily Meyering, and Jim Arps
42	Depot Medroxyprogesterone Acetate (DMPA) Use and Blood Lead Concentrations in U.S. Women: Results from NHANES 2003-2012 Arianna V.E. Foster, Mandy S. Hall, Renee Heffron, Robert O. Wright, Julio Landero, Michael Yin, Flavia Matovu, Quaker E. Harmon, Kenneth Mugwanya, Andrew Mujugira, Chenxi Li, Natalie P. Barstys, Nicole M. Talge, Kristen Upson
43	A Multimeric Variant Of The Human Contraception Antibody (HCA) Demonstrates Enhanced Contraceptive Activity Sarah M. Dohadwala, Ellena Nador, Emilie Mausser, James Doud, Joseph A. Politch, Kevin J. Whaley, and Deborah J. Anderson
44	Uncovering the Genetic Architecture of Idiopathic Infertility Sara L. Stockman, Ravi Balasubramanian, Mark D. Hornstein, Kimberly Keefe Smith, Alan S. Penzias, Denny Sakkas, Kristin L. Rooney, John C. Petrozza, Margaret F. Lippincott, Maria I. Stamou, Soren R. Kernan, Lacey Plummer, Kathryn B. Salnikov, Nora K. Bryant, and Stephanie B. Seminara
45	“Word on the Street”: What Women and Key Influencers Want Us To Know About Sexual and Reproductive Health in South Africa Madison J Langrin, Siyanda Tenza, Bethany Young Holt
46	Methods for Assessing Slow Off-Rate Compounds Blocking Human Sperm to Maximize Contraceptive Efficacy Carla Ritagliati, Thomas Rossetti, Peter T Meinke, Lonny R. Levin and Jochen Buck
47	Investigation of Serine/Threonine Kinase 33 (STK33) Inhibitors as Male Contraceptives Angela F. Ku, Yong Wang, Srinivas Chamakuri, Ravikumar Jimmidi, Chandrashekhar Madasu, Qiuji Ye, Zhi Tan, Zhifeng Yu, Jian-Yuan Li, Kurt M. Bohren, Kiran Sharma, Feng Li, Xuan Qin, Jian Wang, Matthew B. Robers, Courtney M. Sutton, Hai Minh Ta, Stephen S. Palmer, Damian W. Young, Mingxing Teng, Choel Kim, and Martin M. Matzuk
48	Characterization of TSSK1, TSSK2, and TSSK3 as Potential Targets for Male Contraception Saman Nayyab, Maria Gracia Gervasi, Darya Tourzani, Wei Cui, Hiroki AKizawa, Rafael Fissore, Elizabeth Snyder, Ana Maria Salicioni, and Pablo E. Visconti
49	Exploring the Role of Aldehyde Dehydrogenase 1-Expressing Cells in Endometrial Regeneration Vanessa Joseph and Diana Monsivais
50	Acceptability of and Preferences for Long-Acting Injectable Hormonal Contraception Among US Women Ann Gottert, Timothy Abuya, Elizabeth Proos, Isabella Johnson, Nathan H. Dormer, Uli Foley, Grace Saul, Lisa B. Haddad, David R. Friend
51	What Do Women Want in a Multipurpose Prevention Technology Intravaginal Ring? Sanyukta Mathur, Ann Gottert, Shakti Shetty, Michelle Nguyen, Timothy Abuya, Irene Bruce, Jessica M. Sales, Lisa B. Haddad, Barbara A. Friedland
52	Uncovering Regulatory Mechanisms of Soluble Adenylyl Cyclase for Contraceptive Potential Jacob Ferreira, Lonny R. Levin and Jochen Buck

53	Prediction of Drug Accumulation in Testis Using Explainable Machine Learning Luo Song, Chong Lu, Xuan Qin, Feng Li, Zhi Tan
54	Formulation Development of a Multipurpose Vaginal Ring for Non-Hormonal Contraception and HIV Prevention Xin Shen, Peter Boyd, Clare McCoy, Yahya Dallal Bashi, Xinyu Zhao, R. Karl Malcolm
55	Lineage Tracing of Endometrial ALDH1A1+ Cells Reveals Their Contribution to Uterine Development Suni Tang, Linda Alpuing Radilla, Xiaoming Guan, Timothy N. Dunn, & Diana Monsivais
56	Synergistic Inhibitory Effects of Non-Hormonal Intravaginal Contraceptive APIs on Human Sperm Motility Patrick Singer, Lyann Mitchell, Alex Bolyakov, Larisa Kizima, Narender Kumar, Karl Malcom, Natasha Teleshova, Lisa Haddad and Dolores J. Lamb
57	The KLK3 Inhibitor Triazole B1 Reduces Rhesus Macaque Semen Liquefaction Addie Luo, Ov D Slayden, Wipawee Winuthayanon
58	Cisgender Men's Willingness to Use New Male Contraceptive Methods: An International, Cross-Sectional Survey Across Low- and Middle-Income Countries Brian T. Nguyen, Nancy Kidula, Nathalie Kapp, Khurshed Nosirov, Abdellatif Maamari, Kwasi Adu, Marcela Sánchez, and James Kiarie
59	Optimizing <i>In Vitro</i> Spermatogenesis and Testis Organoid Development Toward a Physiomimetic Testis for Research and Male Contraception Development. Tracy M. Clement, Pierre Ferrer, Jacob Cabler
60	Multifaceted Roles of Testis-Specific Actin-Like Proteins ACTL7A and ACTL7B in Spermiogenesis and Their Implications for Male Contraception Pierre Ferrer, Srijana Upadhyay, James J. Cai, Masahito Ikawa, Edward M. Eddy, & Tracy M. Clement
61	The Testis and Epididymis-Specific Whey Acidic Protein (WAP)-Type Four Disulfide Core (WFDC) Locus Genes Are Required for Male Fertility Kaori Nozawa, Katarzyna Kent, Martin M. Matzuk, and Thomas X. Garcia
62	Discovery of Novel PRSS55 Protease Small Molecule Inhibitors using DNA- Encoded Chemical Library (DEL) Technology Ravikumar Jimmidi, Kiran L. Sharma, Qiuji Ye, Courtney Sutton, Murugesan Palaniappan, Zhi Tan, and Martin M. Matzuk
63	Comparative <i>in vitro</i> Toxicity of Copper and Zinc salts and Lactic Acid in EpiVaginal™ and Cervical Explant Tissue Models Neeharika Verma, Patrick Barnable, Narender Kumar, Dolores J. Lamb, Lisa B. Haddad, and Natalia Teleshova
64	A Phenotypic Drug Screening Pipeline of Mouse Oocyte Maturation for the Identification of Compounds Targeting Meiotic Progression Yiru Zhu, Hoi Chang Lee, Jeffrey Pea, John Proudfoot, Richard Nelson, & Francesca E. Duncan
65	Galactic Cap: Innovative Male Contraceptive Charles A Powell
66	Does size matter? A randomized controlled trial to assess the impact of external diameter on preference, adherence, and acceptability of three different intravaginal rings (IVRs) in 24 US couples BA Friedland, M Plagianos, I Bruce, J Sales, J Atrio, A Gottert, S Shetty, C Sant'Anna Marinho, B Zieman, R Merkatz, LB Haddad



We are grateful to the Sponsors who have helped provide funding for this meeting at the Baylor College of Medicine.

Thanks to our sponsors:



Restaurants that are walking distance from the Hilton and Baylor College of Medicine (0.5 mile)

1. Ill by Wolfgang Puck (next door)

American (New), Cocktail Bars

2. The Halal Guys

Halal, Middle Eastern, Mediterranean

3. Poke In the Bowl

Poke, Salads, Sushi Bars

4. Baylor College of Medicine Cafeteria

American (Traditional)

5. M&M Grill

Mediterranean, Mexican, Tex-Mex

6. Cliff's Grill

Burgers, Salads, Sandwiches

7. Miller's Cafe

Burgers, American

8. Driscoll's

American, Vegetarian Friendly, Vegan Options

9. Wan Fu

Chinese – Fast Food

10. Thai Cuisine (next door)

11. Al Vetro Coffee & Espresso Bar

Coffee & Tea, Snacks

12. Starbucks

Coffee & Tea, Snacks

13. Chick-fil-A (next door)

American, Fast Food

14. Alonti Cafe

Deli Sandwiches

15. Paladora

American, Bar, Pub

16. Chipotle Mexican Grille

Mexican, Southwestern, Fast Food

17. Murphy's Deli

Pub Food

18. Salata

Salads

19. Subway (next door)

Subs and Grinders