SRNT 2021 ANNUAL MEETING

FEBRUARY 24-27 ENTIRELY VIRTUAL

PROGRAM
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MESSAGE FROM THE PROGRAM CHAIR

Dear Colleagues,

On behalf of the SRNT Program Co-Chairs and Program Committee, we are excited for the upcoming 27th Annual Meeting of the Society for Research on Nicotine and Tobacco! This year’s completely virtual meeting will be unlike any previous conference, but the SRNT Program Co-Chairs, staff, and leadership have been working hard to provide the most meaningful and interactive conference experience we can...all from the comfort of your home or office. As always, the Annual Meeting offers you cutting-edge scientific presentations across the full spectrum of basic and applied research on nicotine and tobacco and this year will be no exception. We have worked thoughtfully to create a timely and high-quality scientific program spanning the breadth of the nicotine and tobacco research field.

It is an understatement to say that 2020 was a challenging year. The COVID-19 global pandemic caused major disruptions in how we live, work, parent, and interact with others. The horrifying deaths of Black men and women like George Floyd, Breonna Taylor, and scores of other people of color this past summer elicited outrage, frustration, and helplessness on a global scale and highlighted the need for every aspect of society to prioritize eliminating inequity based on racial or ethnic identity. Given these events and the well-known tobacco-related health disparities that exist, the Program Co-Chairs and SRNT leadership agreed that this year’s conference should be focused on issues of social justice, health inequality, and most importantly, action to correct health disparities in nicotine and tobacco science. A major goal of this year’s conference is to promote and encourage action to reduce disparities in nicotine and tobacco science.

This overarching conference theme guided our selection of plenary sessions and, as always, we have aimed to include diverse content in the program from basic science, epidemiological surveys, clinical studies, and policy to better address the effects of nicotine and tobacco use at the individual and societal level. There will be presentations on discrimination’s role in smoking outcomes, pivotal clinical trials, new electronic nicotine delivery systems, effective mobile strategies for treatment and engagement, culturally tailored treatment work, insights from basic science on the effects of nicotine, plus timely topics in the areas of COVID-19 and smoking, nicotine reduction, cannabis and other substance co-use, tobacco use epidemiology, genomics, biomarkers, non-cigarette tobacco products, tobacco product regulation, cessation, and tobacco control policy.

Several key highlights for the meeting are:

**Wednesday, February 24, 2021**
4:00 p.m. – 6:00 p.m. EST

**Presidential Symposium**

**Celebrating Interventions That Reduce Tobacco-Related Inequalities: Where Do We Go From Here?**

**Chairs:** Suchitra Krishnan-Sarin, PhD, SRNT President 2020-2021, Professor of Psychiatry, Yale University, New Haven, CT, USA; Erin McClure, PhD, SRNT Program Chair 2021, Associate Professor of Psychiatry and Behavioral Sciences, Medical University of South Carolina, Charleston SC, USA
Speakers: Monica Webb-Hooper, PhD, Deputy Director National Institute on Minority Health and Health Disparities, Bethesda, MD; Valerie Yerger, ND, Professor in Health Policy, University of California, San Francisco, San Francisco, CA, USA; Lourdes Baezconde-Garbanati, PhD, MPH, Associate Dean for Community Initiatives, KSOM; Associate Director for Community Engagement, USC Norris Comprehensive Cancer Center; Director, Center for Health Equity in the Americas; Professor in Preventive Medicine, University of Southern California, CA, USA; Andrew Waa, PhD, Senior Research Fellow Department of Public Health, University of Otago, Wellington, Wellington, New Zealand; Megan Piper, PhD, Associate Professor, University of Wisconsin Department of Medicine, Madison, WI, USA; Patricia Nez Henderson, MD, MPH, Vice President, Black Hills Center for American Indian Health.

Thursday, February 25, 2021
11:15 a.m. – 12:15 p.m. EST
Public Health Keynote Plenary
Closing the Gap: Nicotine and Tobacco Research in High-Burden Low-Income Countries
Kamran Siddiqi, MBBS, MRCP, MPH, FFPH, PhD
Professor in Global Public Health, Department of Health Sciences, University of York, UK, Associate Dean (Int.), Hull York Medical School, York, UK

Thursday, February 25, 2021
2:30 p.m. – 3:10 p.m. EST
Jarvik-Russell New Investigator Keynote Plenary
Championing Indigenous Smoking Cessation – My Journey
Gillian Gould, PhD, MA, MBChB
Associate Professor, NHMRC and CINSW Translating Research into Practice (TRIP) Fellow, School of Medicine and Public Health, The University of Newcastle

Thursday, February 25, 2021
3:15 p.m. – 4:15 p.m. EST
Policy Keynote Plenary
From Science to Community Engagement: How the Fight for Justice Unfolded
Valerie Yerger, ND
Professor in Health Policy, University of California, San Francisco, San Francisco, CA, USA

Friday, February 26, 2021
11:30 a.m. – 1:00 p.m. EST
Pre-Clinical Plenary & 2021 Langley Award Winner
Functions of Nicotinic Acetylcholine Receptors in Circuits and Behaviors Relevant to Use of Tobacco Products
Marina R. Picciotto, PhD
Charles B.G. Murphy Professor in Psychiatry. Deputy Chair for Basic Science, Professor of Neuroscience and Pharmacology, Yale University, New Haven, CT, USA
Friday, February 26, 2021
3:15 p.m. – 4:15 p.m. EST

Clinical Keynote Plenary

Beyond Intervention Effectiveness: What We Need to Achieve Greater Public Health Impact
Linda M. Collins, PhD
Professor of Social and Behavioral Sciences and Professor of Biostatistics, School of Global Public Health, New York University, New York, New York, USA

Also, not to be missed:

• The Health Disparities Network Pre-Conference Workshop titled, “RACIAL EQUITY AND SOCIAL JUSTICE: AN OPEN CONVERSATION ABOUT THE PAST, PRESENT, AND FUTURE”, on Wednesday, February 17th, from 1:30 p.m. – 4:30 p.m. EST. This featured pre-conference workshop will be free to those registered for the SRNT meeting.

• The Awards Ceremony on Friday, February 26th, from 11:30 a.m. – 1:00 p.m. EST, with special recognition of the 2020 John Slade Award Winner, Dr. Ron Borland; the 2021 John Slade Award Winner, Dr. Patricia Nez Henderson; 2021 Jarvik Russell Award Winner, Dr. Gillian Gould; and 2021 Langley Award Winner, Dr. Marina Picciotto.

• The SRNT Members Meeting on Wednesday, February 17th, from 11:00 a.m. – 12:00 p.m. EST and again from 5:00 p.m. – 6:00 p.m. EST. The first time slot includes SRNT and SRNT Europe members, while the second includes SRNT and SRNT Oceania members.

We encourage your participation and attendance in our first-ever completely virtual Annual Meeting! The SRNT Program Co-Chairs are proud of the content we have put together for this meeting and are excited about the possibilities the virtual platform allows. Please note that sessions will be a mix of live and on-demand, with meeting content available for several additional months. We expect that the virtual format will also allow for more participation from trainees and international colleagues, who may not otherwise be able to travel to the US for the meeting. We hope that your SRNT virtual experience will be as meaningful and beneficial as our in-person meeting and we hope to see everyone live and in-person in 2022!

Kind Regards,
Erin McClure, PhD
Program Chair

Jamie Brown, PhD;
Jennifer Pearson, PhD, MPH;
Christie Fowler, PhD
Program Co-Chairs
Erin McClure, PhD  
Medical University of South Carolina, South Carolina, USA  
**Program Chair**

Jamie Brown, PhD  
University College London, London, UK  
**Program Co-Chair**

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University of California, Irvine, CA  
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<td><strong>Adolescent Network</strong></td>
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<td>Alex Loukas, PhD</td>
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<td>Amanda Quisenberry, PhD</td>
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<td><strong>Basic Science Network</strong></td>
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<td>Brandon Henderson, PhD</td>
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<td>Sven-Eric Jordt, PhD</td>
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<td><strong>Genetics and Omics Network</strong></td>
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<td>Li-Shiun Chen, PhD</td>
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<td>Laurie Zawertailo, PhD</td>
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<td><strong>Global Research Network</strong></td>
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<td>Monika Arora, PhD</td>
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<td>Kelvin Choi, PhD</td>
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<td>Paula Keller, PhD</td>
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<td>Jesse Kosiba</td>
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<td><strong>Treatment Research Network</strong></td>
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<td>Andrea Weinberger, PhD</td>
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<td>Jan Blalock, PhD</td>
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Dana Zeid, BA
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SRNT would like to thank the Program Committee members and abstract reviewers for the effort and expertise they contributed to the 2021 SRNT Annual Meeting.
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<th>President</th>
<th>Program Chair(s)</th>
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<td>1995</td>
<td>Ovide Pomerleau, PhD</td>
<td>Kenneth Perkins, PhD, Chair</td>
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<td>1996</td>
<td>John Hughes, PhD</td>
<td>Steve Heishman, PhD, Chair</td>
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<td>Neal Benowitz, MD</td>
<td>Steve Heishman, PhD, Chair</td>
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<td>Maxine Stitzer, PhD</td>
<td>Scott J. Leischow, PhD, Chair</td>
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<td>1999</td>
<td>Jack Henningfield, PhD</td>
<td>Joy Schmitz, PhD, Chair</td>
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<td>1999-2000</td>
<td>Dorothy Hatsukami, PhD</td>
<td>David Wetter, PhD, Chair</td>
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<td>2000-2001</td>
<td>William Corrigall, PhD</td>
<td>David Wetter, PhD, Chair, Thomas Eissenberg, PhD, Co-Chair</td>
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<td>2001-2002</td>
<td>Kenneth Perkins, PhD</td>
<td>Thomas Eissenberg, PhD, Chair</td>
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<td>2002-2003</td>
<td>Harry Lando, PhD</td>
<td>Thomas Eissenberg, PhD, Chair</td>
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<td>Laura Cousino Klein, PhD, Co-Chair</td>
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<td>2003-2004</td>
<td>Nancy Rigotti, MD</td>
<td>Laura Cousino Klein, PhD, Chair</td>
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<td>David Drobes, PhD, Co-Chair</td>
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<td>2004-2005</td>
<td>Ken Warner, PhD</td>
<td>David Drobes, PhD, Chair</td>
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<td>Suzanne Colby, PhD, Co-Chair</td>
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<td>Robert West, PhD, Co-Chair</td>
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<td>2005-2006</td>
<td>David Balfour, PhD</td>
<td>Suzanne Colby, PhD, Chair</td>
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<td>Eric C. Donny, PhD, Co-Chair</td>
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<td>2006-2007</td>
<td>Ellen R. Gritz, PhD</td>
<td>Eric C. Donny, PhD, Chair</td>
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<td>Janet E. Audrain-McGovern, PhD, Co-Chair</td>
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<td>Cynthia A. Conklin, PhD, Co-Chair</td>
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<td>2007-2008</td>
<td>Ray Niaura, PhD</td>
<td>Janet Audrain-McGovern, PhD, Chair</td>
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<td>Bernard Le Foll, MD, PhD, Co-Chair</td>
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<td>2008-2009</td>
<td>Scott J. Leischow, PhD</td>
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<td>Marcus Munafò, PhD, MSc, Chair</td>
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<td>Ann McNeill, BSc, PhD, Co-Chair</td>
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<td>2009-2010</td>
<td>Sue Curry, PhD</td>
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<td>Darlene Brunzell, PhD, Co-Chair</td>
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<td>Year</td>
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<td>2010-2011</td>
<td>Caryn Lerman, PhD</td>
<td>Thomas Gould, PhD, Chair</td>
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<td>Lisa Dierker, PhD, Co-Chair</td>
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<td>Megan Piper, PhD, Co-Chair</td>
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<td>2011-2012</td>
<td>Robert West, PhD</td>
<td>Megan Piper, PhD, Chair</td>
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<td>Joanna Cohen, PhD, Co-Chair</td>
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<td>Kelly Cosgrove, PhD, Co-Chair</td>
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<td>2012-2013</td>
<td>Gary Swan, PhD</td>
<td>Joanna Cohen, PhD, Chair</td>
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<td>Cristiano Chiamulera, PharmD, Co-Chair</td>
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<td>Sean P. David, MD, SM, DPhil, Co-Chair</td>
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<td>2013-2014</td>
<td>Anne Joseph, MD, MPH</td>
<td>Sean P. David, MD, SM, DPhil, Chair, Co-Chair</td>
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<td>Angela Attwood, PhD, Co-Chair</td>
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<td>Judith Prochaska, PhD, MPH, Co-Chair</td>
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<td>2014-2015</td>
<td>Thomas Gould, PhD</td>
<td>Judith Prochaska, PhD, MPH, Chair</td>
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<td>Maciej L. Goniewicz, PharmD, Co-Chair</td>
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<td>Natalie Walker, PhD, Co-Chair</td>
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<td>2015-2016</td>
<td>Robin Mermelstein, PhD</td>
<td>Natalie Walker, PhD, Chair</td>
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<td>Maciej L. Goniewicz, PharmD, Co-Chair</td>
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<td>Rachel Grana, PhD, MPH, Co-Chair</td>
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<td>2016-2017</td>
<td>Deborah Ossip, PhD</td>
<td>Maciej L. Goniewicz, PharmD, Chair</td>
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<td>Rachel Grana, PhD, MPH, Co-Chair</td>
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<td>Daniel Kotz, PhD, Msc, MPH, Co-Chair</td>
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<td>2017-2018</td>
<td>Judith Prochaska, PhD, MPH</td>
<td>Rachel Grana Mayne, PhD, MPH, Chair</td>
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<td>Gideon St.Helen, PhD, Co-Chair</td>
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<td>2018-2019</td>
<td>Marina Picciotto, PhD</td>
<td>Lisa Fucito, PhD, Chair</td>
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<td>Andrea Villanti, PhD, MPH, Co-Chair</td>
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<td>2019-2020</td>
<td>Suzanne Colby, PhD</td>
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<td>2020-2021</td>
<td>Suchitra Krishnan-Sarin, PhD</td>
<td>Erin McClure, PhD, Chair</td>
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<td>Jennifer Pearson, MPH, PhD, Co-Chair</td>
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EDUCATIONAL OBJECTIVES

• Promote and encourage action to reduce disparities in nicotine and tobacco science.
• Address nicotine and tobacco’s role in the changing health care environment.
• Describe new research and clinical data on the effects of nicotine and tobacco.
• Discuss recent advances in nicotine and tobacco research, including tobacco regulatory science.
• Highlight international research on tobacco control.
• Through scientific exchange, integrate current research with implications for clinical practice.
• Address clinical and public health implications of concurrent use of tobacco with other psychoactive substances and drugs.

TARGET AUDIENCE

The 27th Annual Meeting of SRNT is geared toward individuals involved in the research of nicotine and tobacco. This includes basic, clinical, policy, and public health scientists from academia, government, and industry.

Please note: Symposia that take place in advance of the meeting, after the meeting’s conclusion, or during evening hours are not part of the SRNT Official Program unless specifically noted. The Program Committee has not reviewed the scientific content of Satellite Symposia. Satellite Symposia presenters are responsible for providing disclosures during their session.

MEMBERS MEETING

The SRNT will hold its Members Meeting on Wednesday, February 17th, from 11:00 a.m. – 12:00 p.m. EST and again from 5:00 p.m. – 6:00 p.m. EST. The first time slot includes SRNT and SRNT Europe members, while the second includes SRNT and SRNT Oceania members.

All SRNT members are encouraged to attend. For more details please feel free to email: membership@srnt.org.
2020-2021 SRNT BOARD OF DIRECTORS

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Publications Committee
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FUTURE SRNT MEETINGS

SRNT 28th Annual Meeting  
March 2-5, 2022  
Edinburgh International Conference Centre, Edinburgh, Scotland

SRNT 29th Annual Meeting  
March 1-4, 2023  
Marriott Rivercenter Hotel, San Antonio, Texas

REMEMBRANCES OF PIONEERS FOR WHOM SRNT’S 2021 AWARDS ARE NAMED

Don’t miss the SRNT 2021 Awards Ceremony located on the Main Stage of the Virtual Platform on Friday, February 26, 11:30 a.m.-1:00 p.m. ET, with special recognition from our Langley Award Winner, Dr. Marina Picciotto; two John Slade Award Winners: Dr. Ron Borland, Dr. Patricia Nez-Henderson; and Jarvik Russell New Investigator Award Winner, Dr. Gillian Gould.

THE JOHN SLADE AWARD

The John Slade Award honors individuals who have made outstanding contributions to public health and tobacco control through science-based public policy and public advocacy.

2020 Award Recipient:

Ron Borland PhD FASSA  
Deputy Director, Melbourne Center for Behaviour Change,  
Professor of Psychology – Health Behaviour  
The University of Melbourne, Victoria, Australia

2021 Award Recipient:

Patricia Nez Henderson, MD, MPH  
Vice President  
Black Hills Center for American Indian Health, Rapid City, SD, USA

JOHN SLADE

Dr. John Slade was an expert on the treatment of alcohol, tobacco, and drug addiction and one of America’s pioneer advocates for tobacco control.

He was a member of the team that conducted the first scholarly analysis of previously secret documents from the Brown and Williamson Tobacco Company, which formed the basis for the film “The Insider.” John’s analysis led to a landmark series of articles in the Journal of the American Medical Association in 1995, as well as a book, “The Cigarette Papers.” His groundbreaking research
to prove that cigarettes are nicotine delivery devices helped make it possible for the Food and Drug Administration to claim regulatory authority over tobacco products under then-FDA Commissioner Dr. David Kessler.

John was appointed Professor of Medicine, Robert Wood Johnson Medical School of the UMDNJ, in 1998. He emerged as a leader in substance abuse prevention and tobacco control for the state of New Jersey through his teaching and clinical work as well as through his active involvement with the Medical Society of New Jersey and the New Jersey Public Health Association. John played a major role in helping New Jersey develop its tobacco prevention and treatment program, funded as part of the 1998 $206 billion settlement with tobacco companies.

He co-edited the first major clinical textbook on nicotine addiction and founded the Committee on Nicotine Dependence of the American Society of Addiction Medicine (ASAM).

**2021 NEW INVESTIGATOR BEST ABSTRACT AWARD RECIPIENTS**

**Jamie Hartmann-Boyce, MA, DPhil**
Senior research fellow and departmental lecturer, Nuffield Department of Primary Care Health Sciences, University of Oxford, Oxford, UK

*UPDATE OF THE COCHRANE SYSTEMATIC REVIEW AND META-ANALYSIS OF ELECTRONIC CIGARETTES FOR SMOKING CESSATION*

**Save-the-Date:**
Paper Session: Podium 7
Thursday, February 25
4:30 p.m.-6:00 p.m.
Location: Clinical Stage

**Carrie M. Rosario, DrPH, MPH, CHES, TTS**
Academic Professional - Associate Professor
University of North Carolina - Greensboro (UNCG)
Greensboro, NC, USA

*THE ELEPHANT IN THE ROOM: A SCOPING REVIEW OF NAMING RACISM IN TOBACCO CONTROL*

**Save-the-Date:**
Paper Session: Podium 27
Friday, February 26
1:30 p.m.-3:00 p.m.
Location: Health Disparities & Health Equity Stage

**Yasmine Sherafat, MS (PhD Candidate)**
Department of Neurobiology and Behavior,
University of California, Irvine

*THE NICOTINIC RECEPTOR MODULATOR LYNX1 IN NICOTINE REINFORCEMENT*
Save-the-Date:
Paper Session: Podium 29
Friday, February 26
1:30 p.m.-3:00 p.m.
Location: Pre-Clinical Stage

Andrea R. Titus, PhD
Postdoctoral Fellow, Population Health Science Scholars Program
NYU Grossman School of Medicine
SMOKE-FREE LAWS AND Disparities in secondhand smoke exposure among
NonSmoking adults in the united states, 1999-2014

Save-the-Date:
Paper Session: Podium 27
Friday, February 26
1:30 p.m.-3:00 p.m.
Location: Health Disparities & Health Equity Stage

THE JARVIK-RUSSELL NEW INVESTIGATOR AWARD

The Jarvik-Russell New Investigator Award, named after Murray Jarvik and Michael Russell, recognizes scientists early in their careers who have made extraordinary contributions to the field of nicotine and tobacco research.

2021 Award Recipient:

Gillian Gould, PhD, MA, MBChB
Associate Professor
NHMRC and CINSW Translating Research into Practice (TRIP) Fellow, School of Medicine and Public Health, The University of Newcastle, Hunter Medical Research Institute

Save-the-Date:
Jarvik-Russell New Investigator Plenary
Championing Indigenous Smoking Cessation – My Journey
Thursday, February 25
2:30 p.m.-3:10 p.m. ET
Location: Main Stage

MURRAY E. JARVIK

Dr. Murray Jarvik was born in New York City in 1923. Following medical school, Murray worked at the Yerkes Laboratory in Florida. It was here that he serendipitously witnessed a monkey that would smoke cigarettes. A Fellowship at Mount Sinai Hospital in New York followed, where Murray became one of the pre-eminent researchers studying a newly discovered substance: LSD.
LSD research pivoted Murray into the emerging field of psychopharmacology in the mid-1950s and to a professorial position at the newly created Albert Einstein School of Medicine. It was here that Murray established himself as a premier researcher on effects of drugs on learning and behavior.

Murray’s interests in the mid-1960s turned toward tobacco smoking. Although Murray continued, initially, to study the effects of other drugs and memory, he eventually shifted his focus to smoking and nicotine addiction almost entirely.

One of the first projects he attempted, spurred by the very memorable observation at Yerkes, was to attempt to get monkeys to smoke. This was partially successful and led to experiments with humans and rats so that by 1970 Murray had collected sufficient data to suggest that nicotine was key in the reinforcement of smoking. His work was included in subsequent Surgeon General reports on smoking and nicotine addiction.

Perhaps Murray Jarvik’s most notable achievement was work done with Jed Rose in the 1980s investigating the possibility of delivering nicotine through the skin in sufficient quantities to affect smoking behavior. At first, their approach was quite simple, a basic poultice of nicotine. After much development, they were able to patent the concept of a nicotine transdermal patch, which they turned over to UCLA. It soon made it into production as the second FDA-approved pharmacologic treatment for smoking cessation after nicotine gum. With both established efficacy and ease of use, it was highly successful, for several years among the top three most profitable patents for the University of California.

MICHAEL RUSSELL

By the 1960s, the emerging evidence of the danger of cigarette smoking was clear, but there was very little understanding of why people smoked. Cigarette smoking was generally thought of as a habit, with pharmacological factors receiving little or no attention.

Michael Russell was the man who did most to revolutionize our understanding. His research led to the 1988 report of the US Surgeon General, Nicotine Addiction, which finally brought recognition that cigarette smoking is a classic drug dependence.

Russell was a psychiatrist in training at the Maudsley Hospital, in south London, when he chose the topic of cigarette smoking for his research thesis in 1967. Based on his review of what was then fragmentary research literature, he concluded in a 1971 paper that the drug nicotine was the motivating force underlying smoking behavior. He made the study of the interacting pharmacological and psychological determinants of tobacco dependence his life’s work.

Mike is regarded by many as the father of effective treatment to help smokers quit, but he is probably best known in the cessation field for a non-pharmacological intervention. In 1979 he published a trial examining the effectiveness of brief advice to quit smoking given by GPs in the course of routine consultations. The one-year success rate was 5%, compared with less than 1% in controls. A successful trial of nicotine chewing gum combined with brief advice in primary care followed. Mike Russell moved toward the concept of an integrated district smoking cessation service, in which
routine delivery of advice and pharmacological therapy in primary care was combined with intensive clinic support. That vision has now been realized in Great Britain’s National Health Service.

LANGLEY AWARD FOR BASIC RESEARCH ON NICOTINE AND TOBACCO
The Langley Award honors scientists who have made groundbreaking advances in basic nicotine research in the area of pharmacology, neuroscience and/or genetics.

2021 Award Recipient:

Marina R. Picciotto, PhD
Charles B.G. Murphy Professor in Psychiatry, Deputy Chair for Basic Science, Professor of Neuroscience and Pharmacology, Yale University, New Haven, CT, USA

Save-the-Date:
Pre-Clinical Plenary & 2021 Langley Award Winner Session
Functions of Nicotinic Acetylcholine Receptors in Circuits and Behaviors Relevant to Use of Tobacco Products
Friday, February 26
11:30 a.m.-1:00 p.m. ET
Location: Main Stage

JOHN NEWTON LANGLEY

Born in 1852, the son of a private schoolmaster, John Newton Langley was first educated at home and then at Exeter Grammar School before he entered St John’s College, Cambridge, in October 1871. With the aim of qualifying for a career in the Civil Service, he initially studied mathematics, history and other literary subjects, but changed his plans in his second year and began to read natural sciences. Langley was especially attracted by the classes in elementary biology, embryology and physiology, which were held at Trinity College. Langley’s first study was concerned with the physiological effects of the drug jaborandi (containing pilocarpine), which he examined in the frog, dog, rat and rabbit, noting in particular its decelerating effect on the heart rate and a similarity of its action with that of the alkaloid phsostigmine.

From the late 1880s Langley became interested in the structure and function of the vegetative or “involuntary” nervous system. His research explored the hypothesis that not only the heart but all involuntary muscles were innervated by two different, antagonistic types of visceral nerve fibers. By 1886 he had distinguished morphologically the visceral (vegetative) fibers stemming from the thoracic part of the spinal cord (i.e. the sympathetic system) from the fibers that originated from its ercervico-cranial and sacral regions (i.e. the parasympathetic system).

Langley’s classic research, performed in the early 1900s, described the effects of nicotine at neuromuscular and autonomic ganglionic sites. This research led directly to theories about the chemical mediation of neuronal transmission and the concept of neuronal receptors. Thus, Langley’s early research contributed to basic findings on the functioning of the nervous systems as well as to understanding of the biological basis of tobacco dependence.
Langley died on 5 November 1925, after very brief illness. At the end of his life he held honorary degrees from the universities of Dublin, St. Andrews, Groningen, and Strasbourg.

### 2021 SRNT AWARD WINNERS

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<tr>
<th>USA</th>
<th>Netherlands</th>
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<td>Lois Akinola</td>
<td>Erna Krüsemann</td>
<td>Aleksandra Alcheva</td>
<td>Arnold Kuk</td>
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<td>Yasmin Alkhlaif</td>
<td>Valeria Lallai</td>
<td>Jaqueline Avila</td>
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<td>Deniz Bagdas, PhD, USA</td>
<td>Juhan Lee</td>
<td>Ingrid Bakker, PhD, Netherlands</td>
<td>Connor Miller</td>
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<td>Andrew Bergen, PhD, USA</td>
<td>Meghan Morean</td>
<td>Yen-Chu Chen, USA</td>
<td>RoiSan N’hpang</td>
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<td>Julia Chen-Sankey, USA</td>
<td>Anh Ngo</td>
<td>Xiaolu Cheng</td>
<td>Anthony Oliver</td>
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<td>Angeline Dukes, USA</td>
<td>Elena Penedo</td>
<td>Christopher Dunlap, USA</td>
<td>Irene Pericot-Valverde, PhD, USA</td>
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<td>Nicholas Felicione, PhD, USA</td>
<td>Nathaniel Phillips</td>
<td>Shivani Gaiha, USA</td>
<td>Tim McKay</td>
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<td>Roxanne Harfmann, USA</td>
<td>Samantha Puvanesarajah, PhD, USA</td>
<td>Afsheen Hasan, USA</td>
<td>Briana Renda, Canada</td>
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<td>Laura Hernandez, USA</td>
<td>Minoru Takeuchi, PhD, Japan</td>
<td>Nancy Jao, PhD, USA</td>
<td>Celestie Valcourt, USA</td>
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<td>Sallie Johnson, USA</td>
<td>Augustus White, USA</td>
<td>Luisa Kcomt, PhD, USA</td>
<td>Naosuke Yamaguchi, USA</td>
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<td>Brittney Keller-Hamilton, USA</td>
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### 2021 SRNT SPONSORS & EXHIBITORS

Plan time in your schedule to visit the 3-D Virtual Exhibit Hall with the SRNT sponsors and exhibitors. Thanks to all the companies virtually exhibiting this year. SRNT appreciates their financial support!

**Virtual Exhibit Hours:**

- **Thursday, February 25, 2021**: 10:30 a.m.-4:30 p.m. ET
- **Friday, February 26, 2021**: 9:00 a.m.-3:00 p.m. ET
- **Saturday, February 27, 2021**: 9:30 a.m.-2:00 p.m. ET

### 2021 SRNT SUPPORTERS

SRNT would like to thank Westat for their financial support of the 2021 Annual Meeting and SRNT’s mission to stimulate the generation and dissemination of new knowledge concerning nicotine in all its manifestations, from cellular to societal.
ePoster sessions have specific times designated for the authors to be present to discuss their posters virtually with attendees in the ePoster Gallery and/or their own designated video conferencing link. The on-demand, ePoster Gallery will be available for attendee viewing starting on Wednesday, February 17, 2021 located in the SRNT Virtual Platform. Presentations will be available to paid registrants through 2021.

**ePoster presentations are as follows:**

**WEDNESDAY, FEBRUARY 24, 2021**

Pre-Clinical: 9:30 a.m.-10:30 a.m. ET

Rapids: 10:00 a.m.-11:00 a.m. ET

Clinical: 10:30 a.m.-11:30 a.m. ET

Public Health: 11:30 a.m.-12:30 p.m. ET

Policy: 12:30 p.m-1:30 p.m. ET

**EVALUATION**

Thank you again for attending the meeting! We hope you enjoy the sessions and the virtual platform. An overall program evaluation will be emailed to all Annual Meeting participants following the conference. Your feedback is greatly appreciated!
SESSION SUMMARIES
WEDNESDAY
FEBRUARY 17, 2021

WEDNESDAY
FEBRUARY 24, 2021
WEDNESDAY, FEBRUARY 17, 2021

(Note: All presentation times are in Eastern Standard Time [EST].)

10:00 a.m.  
SRNT Virtual Platform  
ePoster Gallery Opens  
On-Demand Presentation Gallery Opens  
(released for attendee viewing)

11:00 a.m.-12:00 p.m.  
Members Only  
SRNT & SRNT-Europe Members Meeting

1:30 p.m.-4:30 p.m.  
Main Stage  
Pre-conference Workshop (Available to all paid full-conference registrants)  
Racial Equity and Social Justice: An Open Conversation About the Past, Present, and Future  
Session Chair: Kelvin Choi, PhD, MPH  
Presenters: Tom Calma AO; Phillip Gardiner, DrPH; Laura E. Gómez, PhD; Mignonne Guy, PhD; Rod Lew, MPH; CoCo Villaluz, PhD

5:00 p.m.-6:00 p.m.  
Members Only  
SRNT & SRNT-Oceania Members Meeting

WEDNESDAY, FEBRUARY 24, 2021

(Note: All presentation times are in Eastern Standard Time [EST].)

9:30 a.m. - 10:30 a.m.  
ePoster Gallery  
Poster Session 1: Pre-Clinical

10:00 a.m. - 11:00 a.m.  
ePoster Gallery  
Poster Session 2: Rapid Response
10:30 a.m. - 11:30 a.m.
   ePoster Gallery
   **Poster Session 3: Clinical**

11:30 a.m. - 12:30 p.m.
   ePoster Gallery
   **Poster Session 4: Public Health**

12:30 p.m. - 1:30 p.m.
   ePoster Gallery
   **Poster Session 5: Policy**

1:30 p.m. - 2:00 p.m.
   **Virtual Break**

2:00 p.m.-3:30 p.m.
   Special Session Stage
   **FDA Special Session**
   **FDA Center for Tobacco Products: Programmatic Updates and Activities**
   **Session Chair:** Mitch Zeller, JD
   **Speakers:** Kathleen Crosby, BA; Matthew R. Holman, PhD; Mitch Zeller, JD

3:30 p.m.-4:00 p.m.
   **Virtual Break**

4:00 p.m.-6:00 p.m.
   Main Stage
   **Opening Session**
   **Presidential Symposium**
   **Panel Discussion**
   **Celebrating Interventions that Reduce Tobacco-Related Inequalities: Where Do We Go from Here?**
   **Session Chairs:** Suchitra Krishnan-Sarin, PhD (SRNT President 2020-2021); Erin McClure, PhD
   **Presenters:** Monica Webb-Hooper, PhD; Valerie Yerger, ND; Lourdes Baezconde-Garbanati, PhD, MPH; Andrew Waa, PhD; Megan Piper, PhD; Patricia Nez Henderson, MD

**Audience Key:** PC: Pre-Clinical; C: Clinical; PH: Public Health/Epidemiology; P: Policy; *: Conference Themed Session
Presidential Symposium Note: SRNT has arranged a special networking opportunity pre- and post- the opening session. Attendees will have the opportunity to virtually network with other attendees via video conferencing at a virtual table starting at 3:45 p.m. and continue after the opening session. The virtual platform for this session will offer a real/live event feel to interact with fellow attendees. Don’t miss this fun new virtual experience!

6:00 p.m.-7:00 p.m.
Main Stage
**Opening Networking Session**
We will miss seeing you in person this year, but we can still get together virtually! Continue networking following the Presidential Symposium. Grab some handy snacks, a favorite beverage and be sure to join us at a virtual table. Attendees will be able to optionally video conference with up to 12 attendees at a time at their social table, and can even hop from one table to another to continue to visit with other colleagues. We’ll “see” you there!
THURSDAY, FEBRUARY 25, 2021

(Note: All presentation times are in Eastern Standard Time [EST].)

9:30 a.m. - 11:00 a.m.
Health Disparities & Health Equity Stage

Podium Presentation 1: Symposium 1

WHERE THE RUBBER MEETS THE ROAD: CULTURALLY TAILORED TOBACCO CONTROL RESEARCH AND INTERVENTIONS TO ACHIEVE HEALTH EQUITY

Co-Chairs: Andy Tan and Dana M. Carroll
Audience: PH, *

SYM1A: COMMUNITY-BASED MEDIA CAMPAIGNS AND INTERVENTIONS TARGETING SOCIOECONOMICALLY DISADVANTAGED AFRICAN-AMERICAN MEN
Tonia Moore*

SYM1B: DESIGNING CULTURALLY TAILORED TOBACCO COUNTER-MARKETING FOR YOUNG ADULT CISGENDER SEXUAL MINORITY WOMEN TO MEET THE NEEDS OF THE COMMUNITY
Ashley Sanders-Jackson*

SYM1C: ENGAGING LOW SOCIOECONOMIC STATUS SURVIVORS OF CERVICAL CANCER IN PERSONALLY TAILORED TOBACCO TREATMENT
Jennifer I. Vidrine*, Damon J. Vidrine, Sarah R. Jones, Steven K. Sutton, Summer G. Frank-Pearce, Ya-Chen Tina Shih, David W. Wetter

SYM1D: RESEARCHER DIRECTED RECOMMENDATIONS FOR COLLABORATING WITH AMERICAN INDIAN TRIBES/COMMUNITIES TO ACHIEVE SMOKING-RELATED HEALTH EQUITY
Dana Mowls Carroll*

SYM1E: TWO TOBACCO WAYS: BUILDING A TRADITIONAL TOBACCO MOVEMENT IN MINNESOTA
Wyatt Pickner*

9:30 a.m. - 11:00 a.m.
Public Health Stage

Podium Presentation 1: Paper Session 1

MENTAL DISTRESS, MENTAL HEALTH, AND SMOKING

Chair: Jessica W. Cook
Audience: C, PH, P

POD1-1: THE IMPACT OF COPING WITH STRESSFUL EVENTS ON NEGATIVE AFFECT AND CRAVINGS AMONG SMOKERS WITH MOOD DISORDERS
Danusha Selva Kumar*, Haruka Minami, Shadi Nahvi, Julia Arnsten, Monica Rivera-Mindt, Lawrence Price, Richard Brown
POD1-2: SMOKING TRAJECTORIES FROM ADOLESCENCE TO EARLY ADULTHOOD AS A LONGITUDINAL PREDICTOR OF MENTAL HEALTH IN LATER ADULTHOOD
Boram Lee*, Dong-Chul Seo, Jonathan Macy, Kit Elam, Aurelian Bidulescu

POD1-3: INVESTIGATION OF BIDIRECTIONAL RELATIONSHIP BETWEEN TOBACCO USE AND MENTAL HEALTH PROBLEMS AMONG ADOLESCENTS
Boram Lee*, Dong-Chul Seo, Jonathan Macy, Kit Elam, Aurelian Bidulescu

POD1-4: INCREASING PREVALENCE OF MENTAL HEALTH PROBLEMS AMONG MENTHOL CIGARETTE SMOKERS- FINDINGS FROM THE NATIONAL SURVEY ON DRUG USE AND HEALTH 2008 TO 2018
Ollie Ganz*, Cristine Delnevo, Mary Hrywna, Renee D. Goodwin

POD1-5: MEDIATIONAL PATHWAYS OF TOBACCO USE AMONG ADULT SMOKERS WITH PSYCHIATRIC SYMPTOMS: TESTING LONGITUDINAL MEDIATION USING THE POPULATION ASSESSMENT OF TOBACCO AND HEALTH (PATH) SURVEY
Teresa DeAtley*, Alexander Sokolovsky, Jennifer Tidey

9:30 a.m. - 11:00 a.m.
Clinical Stage
Podium Presentation 1: Symposium 2

RANDOMIZED CONTROLLED TRIALS FOR ELECTRONIC NICOTINE DELIVERY SYSTEMS: NEW DIRECTIONS AND FINDINGS
Chair: Thomas Eissenberg
Audience: PH, P

SYM2A: SMOKING CESSATION SELF-HELP FOR DUAL USERS OF TOBACCO CIGARETTES AND E-CIGARETTES: PRIMARY OUTCOMES OF AN RCT
Thomas H. Brandon*, Vani N. Simmons, Steven K. Sutton, Ursula Martinez, David J. Drobes, Lauren R. Meltzer, Karen O. Brandon, Margaret M. Byrne, Paul T. Harrell, Thomas Eissenberg, Christopher R. Bullen

SYM2B: PREDICTORS OF RETENTION IN A RANDOMIZED CONTROLLED TRIAL OF AN ELECTRONIC NICOTINE DELIVERY SYSTEMAMONG SMOKERS INTERESTED IN REDUCTION
Caroline O. Cobb*, Jacob Graham, Jonathan Foulds, Phoebe Brosnan, Jessica Yingst, Nadia Chowdhury, Miao-Shan Yen, Megan Underwood, Shumei Sun

SYM2C: CIGARETTE NICOTINE REDUCTION IN THE PRESENCE OF AN ALTERNATIVE: INVESTIGATING HOW CIGARETTE NICOTINE CONTENT AND E-LIQUID NICOTINE CONTENT AFFECT SMOKING

SYM2D: THE FUTURE DIRECTION OF E-CIGARETTE TRIALS IN NEW ZEALAND? KEEPING UP WITH PRODUCT INNOVATION
Natalie K. Walker*, Christopher R. Bullen

Audience Key: PC: Pre-Clinical; C: Clinical; PH: Public Health/Epidemiology; P: Policy; *: Conference Themed Session
9:30 a.m. - 11:00 a.m.
Policy Stage

Podium Presentation 1: Symposium 2

IMPACT OF RESTRICTING ACCESS TO TOBACCO PRODUCTS

Chair: David Hammong
Audience: C

POD2-1: IMPACT OF TOBACCO 21 POLICIES ON YOUTH SMOKING DISPARITIES, TAKEAWAYS FOR THE NATIONAL POLICY
David C. Colston*, Megan E. Patrick, Nancy Fleischer

POD2-2: TOBACCO 21 POLICIES ARE ASSOCIATED WITH LOWER ODDS OF TOBACCO USE AMONG YOUNGER ADOLESCENTS IN MINNESOTA
April K. Wilhelm*, John H. Kingsbury, Marla Eisenberg, Michael Shyne, Sharrilyn Helgertz, Iris Borowsky

POD2-3: TOBACCO 21 ADOPTION DECREASED SALES OF CIGARETTE BRANDS PURCHASED BY YOUNG PEOPLE
Alex C. Liber*, Zachary Cahn, Michal Stoklosa, Jeffrey Drope

POD2-4: RESTRICTED ACCESS TO TOBACCO PRODUCTS AND SMOKING CESSATION THERAPIES INFLUENCES HYPOTHETICAL TOBACCO USE BEHAVIORS AMONG SMOKERS AND E-CIGARETTE USERS: RESULTS FROM AN ONLINE EXPERIMENT
Augustus White*, Deborah Ossip, L. M. Snell, Dongmei Li, Cosima Hoetger, Richard O'Connor, Rebecca Lester, Daniel Croft, Megan Underwood, Scott McIntosh, Alison Breland, Liane Schneller, Caroline Cobb, Andrew Barnes

POD2-5: AN ESTIMATION OF THE POPULATION HEALTH EFFECTS OF REDUCING NICOTINE IN COMBUSTIBLE CIGARETTES GRADUALLY VS INSTANTANEOUSLY - A SIMULATION ANALYSIS
David Mendez*, Thuy Le

9:30 a.m. - 11:00 a.m.
Pre-Clinical Stage

Podium Presentation 1: Paper Session 3

THE YOUNG MIND: DRUG EXPOSURE DURING DEVELOPMENT

Chair: Brandon Henderson
Audience: PC, P

POD3-1: GESTATIONAL EXPOSURE TO PGVG ALONE COMPROMISES FETAL GROWTH
Pedro Rivera-Hernandez, Nja Hpa, Justin Helman, Sara Berkelhamer*
POD3-2: THIRDHAND SMOKE EXPOSURE IS ASSOCIATED WITH BACTERIAL VARIATIONS AND DECREASED DIVERSITY IN THE GUT MICROBIOME DURING INFANCY
Thomas Northrup*, Angela Stotts, Robert Suchting, Georg Matt, Michelle Klawans, Charles Green, Amir Khan, Eunha Hoh, Melbourne Hovell, Penelope J.E. Quintana, Christopher Stewart

POD3-3: EFFECTS OF CHERRY FLAVORANT ON ORAL NICOTINE TASTE, WITHDRAWAL, AND REINSTATEMENT IN ADOLESCENT RATS
Deniz Bagdas*, Andy Ma Zepei, Karina Minanov, Lilley Harris, Nii Addy

POD3-4: ADOLESCENT NICOTINE AND CANNABINOID EXPOSURE ALTERS SUSCEPTIBILITY TO CUE-INDUCED NICOTINE RELAPSE LATER IN LIFE
Angeline Dukes*, Adriana Hernandez-Vasquez, Yasmine Sherafat, Malia Bautista, Christie Fowler

POD3-5: HEIGHTENED STRIATAL AND PREFRONTAL ACTIVATION DURING SOCIAL REWARD PROCESSING AMONG YOUNG ADULT SMOKERS COMPARED WITH NON-SMOKERS IMPLICATIONS FOR UNDERSTANDING RISK
Maggie Sweitzer*, Kayla Hernandez, Jacqueline Soja, F. Joseph McClernon, Erika Forbes

9:30 a.m. - 11:00 a.m.
Transdisciplinary Stage
Podium Presentation 1: Symposium 3

TOBACCO USE AS A RISK FACTOR FOR SARS-COV-2 INFECTION
Chair: Matthew L. Springer
Audience: PC, PH

SYM3A: DIFFERENTIAL EXPRESSION OF IMMUNE CELL INSTIGATORS OF COVID-19 IN TOBACCO CIGARETTE SMOKERS AND ELECTRONIC CIGARETTE VAPERS
Holly R. Middlekauff*, Theodoros Kelesidis, Yuyan Zhang, Elizabeth Tran, Grace Sosa, Rachel Heymans

SYM3B: DIRECT EXPOSURE TO SARS-CoV-2 AND CIGARETTE SMOKE ALTERS THE STEM CELL DERIVED AIRWAY REPAIR RESPONSE AND INCREASES INFECTION SEVERITY

SYM3C: THE IMPACT OF SMOKING, COMORBIDITIES, AND RACE/ETHNICITY ON COVID-19 INFECTION
Jiang Li*, Meghan Martinez, Dominick L. Frosch

11:00 a.m. - 11:15 a.m.
Virtual Break

Audience Key: PC: Pre-Clinical; C: Clinical; PH: Public Health/Epidemiology; P: Policy; *: Conference Themed Session
11:15 a.m.-12:15 p.m.
Main Stage

**Public Health Keynote Plenary**
*Closing the Gap: Nicotine and Tobacco Research in High-Burden, Low-Income Countries*

**Session Chair:** Jasjit S. Ahluwalia, MD, MPH
**Presenter:** Kamran Siddiqi, MBBS, MRCP, MPH, FFPH, PhD

12:15 p.m. - 12:45 p.m.
Virtual Break

12:45 p.m. - 2:15 p.m.

Health Disparities & Health Equity Stage

**Podium Presentation 2: Paper Session 4**

**BEYOND DESCRIPTION: INFORMING AND CORRECTING DISPARITIES IN CESSATION**

**Chair:** Nikki Nollen
**Audience:** C, PH, P, *

**POD4-1:** GROUP COGNITIVE BEHAVIORAL THERAPY AMONG RACIALLY/ETHNICALLY DIVERSE SMOKERS - IMPLICATIONS FOR DISPARITY ELIMINATION

*Monica Webb Hooper, Taghrid Asfar*, Vani Simmons, Karen Brandon, Michael Antoni, Marina Unrod, Tulay Koru-Sengul, David Lee, Thomas Brandon*

**POD4-2:** DUAL USE OF CIGARETTES AND E-CIGARETTES IN AFRICAN AMERICAN AND LATINX SMOKERS: SECONDARY ANALYSES FROM A RANDOMIZED CONTROLLED E-CIGARETTE SWITCHING TRIAL


**POD4-3:** REDUCING SMOKING CESSATION DISPARITIES ACROSS THE LIFESPAN: FEASIBILITY OF A TECHNOLOGY-BASED APPROACH AMONG MEDICAID RECIPIENTS

*Rachel Zelenak, Jordan Gootee, Farah Elsiss, Jonathan Ottolini, Ana Lanier, Brian K. Ahmedani, Suzanne Colby, Jordan M. Braciszewski* *

**POD4-4:** “HEALING WITHIN” THE DEVELOPMENT OF SMOKING CESSATION INTERVENTION FOR AMERICAN INDIAN WOMEN EXPERIENCING INTIMATE PARTNER VIOLENCE

*Patricia Nez Henderson*, Trivia Afraid of Lightning-Craddock, Priscilla Nez, Emma Rutan, Alexandra Elvira Samarron Longorio, Samantha Sabo, Won Choi, Jeffrey Henderson

**POD4-5:** USING SYSTEMS SCIENCE TO ADVANCE HEALTH EQUITY IN TOBACCO CONTROL - A CAUSAL LOOP DIAGRAM OF SMOKING AMONG RACIAL/ETHNIC MINORITY AND LOWER SOCIOECONOMIC GROUPS

12:45 p.m. - 2:15 p.m.
Public Health Stage
Podium Presentation 2: Symposium 4

E-CIGARETTE GATEWAY EFFECTS? INTERDISCIPLINARY APPROACHES TO EXAMINING EVIDENCE FOR WHETHER E-CIGARETTES LEAD TO MORE SMOKING OR LESS SMOKING

*Chair: Nancy Rigotti
Audience: PH

SYM4A: DISENTANGLING THE YOUTH GATEWAY OF E-CIGARETTES: FINDINGS FROM THREE DIFFERENT DATA SOURCES
Lion Shahab*

SYM4B: SHEDDING LIGHT ON THE RELATIONSHIP BETWEEN ADOLESCENT E-CIGARETTE USE AND COMBUSTIBLE CIGARETTE SMOKING VIA CONJOINT DEVELOPMENTAL TRAJECTORIES
Janet Audrain-McGovern*, Daniel Rodriguez

SYM4C: EXAMINING THE EFFECTS OF E-CIGARETTE TAXES USING MONITORING THE FUTURE DATA
Michael F. Pesko*, Rahi Abouk, Bo Feng, Charles Courtemanche, Dhaval Dave

SYM4D: EPIDEMIOLOGICAL APPROACHES TO EVALUATING THE ASSOCIATION OF E-CIGARETTE USE WITH SUBSEQUENT CIGARETTE INITIATION
Jessica L. Barrington-Trimis*, Rob McConnell, Adam Leventhal, Jennifer Unger, Tess Boley Cruz, Fei Liu, Zhi Yang, Kiros Berhane, Duncan Thomas, Grace Kong, Suchitra Krishnan-Sarin

12:45 p.m. - 2:15 p.m.
Clinical Stage
Podium Presentation 2: Symposium 5

TREATMENT IMPLICATIONS AND CONSIDERATIONS FOR THE CO-USE OF CANNABIS AND TOBACCO

*Chair: Erin McClure
Audience: C

SYM5A: ASSESSMENT AND TREATMENT OF BLUNT USE AMONG AFRICAN AMERICAN YOUNG ADULTS
LaTrice Montgomery*, Vicki L. Plano Clark, Dylanne Twitty, Alan Budney, Judith J. Prochaska, Theresa Winhusen

SYM5B: DIGITAL HEALTH TOOLS FOR ASSESSMENT AND INTERVENTION TARGETING TOBACCO AND CANNABIS CO-USE
Johannes Thrul*, Charlie Nguyen, Nhung Nguyen
SYM5C: TOBACCO CO-USE AFFECTS TREATMENT OUTCOMES IN A PILOT TRIAL OF VARENICLINE FOR CANNABIS USE DISORDER
Erin Martin*, Nathaniel L. Baker, Aimee McRae-Clark

SYM5D: PHASE 2A ADAPTIVE BAYESIAN TRIAL OF CANNABIDIOL IN CO-USERS OF CANNABIS AND TOBACCO - EFFECTS ON CANNABIS AND TOBACCO USE
Tom P. Freeman*

12:45 p.m. - 2:15 p.m.
Policy Stage
Podium Presentation 2: Paper Session 5
PRODUCT DESIGN AND PACKAGING: PERCEPTIONS AND BEHAVIOR
Chair: Meghan Bridgid Moran
Audience: PH, C

POD5-1: LONGITUDINAL EFFECTS OF CIGARETTE PICTORIAL WARNING LABELS AMONG YOUNG ADULTS
Andrea C. Johnson*, George W. Howe, Samuel J. Simmens, Monique M. Turner, Andrea C. Villanti, W. Douglas Evans, Andrew A. Strasser, Darren Mays

POD5-2: THE "ORGANIC" CIGARETTE DESCRIPTOR AND ITS ASSOCIATION WITH HEALTH RISK EXPECTANCIES, SUBJECTIVE EFFECTS, AND SMOKING TOPOGRAPHY: A PILOT STUDY
Jennifer Pearson*, Mika Watanabe, Jennifer Sanchez, Suman Mann, Cara Drake, Melissa Mercincavage

POD5-3: FLAVOR CAPSULES AND COLORS ON CIGARETTE PACKS APPEAL TO YOUTH IN MEXICO AND CONTRIBUTE TO MISPERCEPTIONS OF HARM
Jennifer Lynette Brown*, Graziele Grilo, Joanna Cohen, Katherine Clegg Smith, Luz Myriam Reynales, Maria Guadalupe Flores Escartin, Meghan Bridgid Moran

POD5-4: NOVEL NICOTINE CONCENTRATION LABELS IMPROVE UNDERSTANDING OF NICOTINE STRENGTH AMONG ADOLESCENT AND YOUNG ADULT E-CIGARETTE USERS
Meghan Morean*, Olivia Wackowski, Thomas Eissenberg, Cristine Delnevo, Suchitra Krishnan-Sarin

12:45 p.m. - 2:15 p.m.
Pre-Clinical Stage
Podium Presentation 2: Paper Session 6
NEUROBIOLOGICAL UNDERPINNINGS OF NICOTINE DEPENDENCE
Chair: Thomas Gould
Audience: PC
POD6-1: ELECTRONIC NICOTINE DELIVERY SYSTEMS (ENDS) FLAVORANTS ACT AS NON-COMPETITIVE ANTAGONISTS OF NACHRS AND CONTRIBUTE TO REINFORCEMENT-RELATED BEHAVIOR
Skylar Y. Cooper*, Brandon J. Henderson

POD6-2: UPREGULATION OF NACHRS AND CHANGES IN EXCITABILITY ON VTA DOPAMINE AND GABA NEURONS CORRELATES TO CHANGES IN NICOTINE-REWARD RELATED BEHAVIOR
Skylar Y. Cooper, Austin T. Akers, Brandon J. Henderson*

POD6-3: ADOLESCENT NICOTINE AND FOOTSHOCK EXPOSURE AUGMENTS ADULT NICOTINE SELF-ADMINISTRATION WITHOUT AFFECTING BASELINE ANXIETY-LIKE BEHAVIOUR OR STRESS RESPONSIVIVITY
Briana Renda*, Allyson Andrade, Adilia Stone, Rita El Azali, Jibran Khokhar, Jennifer Murray

POD6-4: ROLE OF ANTERIOR INSULA IN CONTEXT-INDUCED RELAPSE OF PUNISHED NICOTINE SEEKING
Nathan J. Marchant*

POD6-5: DIFFERENTIAL INVOLVEMENT OF NICOTINIC ACETYLCHOLINE RECEPTORS IN NICOTINE AND COTININE SELF-ADMINISTRATION IN MALE WISTAR RATS
Zheng-Ming Ding*, Xiaoying Tan

POD6-6: C57BL/6 SUBSTRAIN DIFFERENCES IN PHARMACOLOGICAL EFFECTS AFTER ACUTE AND REPEATED NICOTINE ADMINISTRATION
Lois S. Akinola*, M. Imad Damaj

12:45 p.m. - 2:15 p.m.
Transdisciplinary Stage
Podium Presentation 2: Symposium 6

ACHIEVING EQUITY FOR WOMEN CONDUCTING NICOTINE AND TOBACCO RESEARCH
Co-Chairs: Tracy T. Smith and Dana M. Carroll
Audience: P, PH, C, PC, *

SYM6A: HOW TO SAY NO SO YOU CAN SAY YES: SETTING PRIORITIES
Dorothy K. Hatsukami*

SYM6B: MAINTAINING PRODUCTIVITY AND POSITIVITY THROUGH VARIOUS CAREER (AND LIFE) STAGES
Judith J. Prochaska*

SYM6C: NIH INITIATIVES AND POLICIES TO SUPPORT WOMEN IN SCIENCE
Mary A. Kautz*

2:15 p.m. - 2:30 p.m.
Virtual Break

Audience Key: PC: Pre-Clinical; C: Clinical; PH: Public Health/Epidemiology; P: Policy; *: Conference Themed Session
2:30 p.m.-3:10 p.m.
Main Stage
Jarvik-Russell New Investigator Keynote Plenary and Recipient of the 2021 Jarvik-Russell Award
*Championing Indigenous Smoking Cessation – My Journey*
*Session Chair:* Tracy Smith, PhD
*Presenter:* Gillian Gould, PhD, MA, MBChB

3:10 p.m. - 3:15 p.m.
Virtual Break

3:15 p.m.-4:15 p.m.
Main Stage
Policy Keynote Plenary
*From Science to Community Engagement: How the Fight for Justice Unfolded*
*Session Chair:* Pebbles Fagan, PhD, MPH
*Presenter:* Valerie Yerger, ND

4:15 p.m. - 4:30 p.m.
Virtual Break

4:30 p.m. - 6:00 p.m.
Health Disparities & Health Equity Stage
Podium Presentation 3: Paper Session 7

**BREATHING NEW LIFE INTO CESSIONATION STRATEGIES: TREATMENT UPDATES**
*Chair:* LaTrice Montgomery
*Audience:* C, PH, *

**POD7-1:** UPDATE OF THE COCHRANE SYSTEMATIC REVIEW AND META-ANALYSIS OF ELECTRONIC CIGARETTES FOR SMOKING CESSION
Jamie Hartmann-Boyce*, Hayden McRobbie, Nicola Lindson, Christopher Bullen, Rachna Begh, Annika Theodoulou, Caitlin Notley, Nancy Rigotti, Tari Turner, Ailsa Butler, Peter Hajek

**POD7-2:** RELAPSE RECOVERY RATES IN A SEQUENTIAL, MULTIPLE ASSIGNMENT, RANDOMIZED TRIAL (SMART) OF CHRONIC CARE INTERVENTIONS FOR SMOKING Tanya R. Schlam*, Megan E. Piper, Stevens Smith, Jessica Cook, Douglas Jorenby, Daniel Bolt, Linda Collins, Robin Mermelstein, Michael Fiore, Timothy Baker

**POD7-4:** IS CYTISINE AT LEAST AS EFFECTIVE AS VARENICLINE FOR SMOKING CESSION - FINDINGS FROM A NON-INFERIORITY TRIAL IN INDIGENOUS NEW ZEALANDERS AND THEIR EXTENDED FAMILY
Natalie Walker*, Jo Barnes, Marjolein Verbiest, Varsha Parag, Subhash Pokhrel, Christopher Bullen
POD7-5: FEASIBILITY AND ACCEPTABILITY OF A MINDFULNESS-BASED MHEALTH SMOKING CESSATION INTERVENTION WITH WEARABLE SENSORS
Laura M. Hernandez*, David W. Wetter, Santosh Kumar, Steven K. Sutton, Mikaela Hemenway, Christine Vinci

POD7-6: BARRIERS AND FACILITATORS OF ADHERENCE TO NICOTINE REPLACEMENT THERAPY: A SYSTEMATIC REVIEW
Amanuel Getnet Mersha*, Gillian Sandra Gould, Michelle Bovill, Parivash Eftekhari

4:30 p.m. - 6:00 p.m.
Public Health Stage
Podium Presentation 3: Paper Session 8

THE HEALTH ECONOMICS OF TOBACCO USE AND VAPING
Chair: Hua Yong
Audience: P, PH

POD8-1: A MULTI-DISCIPLINARY INVESTIGATION INTO THE DRIVERS OF SMOKING CESSATION IN FIVE COUNTRIES WITH ANDS MARKETS
James E. Prieger*, Samuel C. Hampsher-Monk

POD8-2: THE IMPACT OF A REGIONAL HEALTH PROMOTION PROGRAM ON QUITLINE CALLS IN CENTRAL QUEENSLAND, AUSTRALIA- FINDINGS FROM A CONTROLLED INTERRUPTED TIME SERIES ANALYSIS
Arifuzzaman Khan*, Gulam Khandaker, Sheleigh Lawler, Coral Gartner

POD8-3: SUBSTITUTABILITY OF COMBUSTIBLE TOBACCO CIGARETTES AND E-CIGARETTES IN DUAL USERS AND EXCLUSIVE E-CIGARETTE USERS
Rose S. Bono*, Andrew J. Barnes, Caroline O. Cobb, Rebecca C. Lester, Cosima Hoetger, Megan L. Underwood, Augustus M. White, Warren Bickel

POD8-4: ESTIMATING THE IMPACT OF TOBACCO CONTROL SPENDING ON U.S. HIGH SCHOOL STUDENT VAPING USE BY GENDER
Megan C. Diaz*, John A. Tauras, Randall Simpson, Barbara A. Schillo

POD8-5: THE EFFECTS OF E-CIGARETTE TAXES ON E-CIGARETTE PRICES AND TOBACCO PRODUCT SALES - EVIDENCE FROM RETAIL PANEL DATA
Chad Cotti, Charles Courtemanche, Catherine Maclean, Erik Nesson, Michael Pesko*, Nathan Tefft

4:30 p.m. - 6:00 p.m.
Clinical Stage
Podium Presentation 3: Paper Session 9

INTERVENTIONS FOR VULNERABLE POPULATIONS
Chair: Billie Bonevski
Audience: PH, C

Audience Key: PC: Pre-Clinical; C: Clinical; PH: Public Health/Epidemiology; P: Policy; *: Conference Themed Session
POD9-1: PROJECT ASSIST (ADDRESSING SMOKING IN SHELTERED HOMELESS WITH INTENSIVE SMOKING TREATMENT) A PILOT STUDY EXAMINING THE SAFETY AND EFFECTIVENESS OF VARENICLINE, COMBINATION NICOTINE REPLACEMENT THERAPY, AND COUNSELLING IN MALE ADULT TOBACCO SMOKERS AT RISK OR EXPERIENCING HOMELESSNESS
Eliza Skelton*, Alistair Lum, Lucy Cooper, Emma Barnett, Julie Smith, Arlene Everson, Jane Machart, Amanda Baker, Sean Halpin, Olav Nielssen, Billie Bonevski

POD9-2: TOBACCO CONTROL MESSAGES AND THE NEEDS OF PREGNANT ABORIGINAL AND TORRES STRAIT ISLANDER WOMEN
Gillian S. Gould*, Gina La Hera Fuentes, Michelle Bovill, Jessica Bennett, Allison Hart, Nicole Ryan

POD9-3: A PILOT STUDY OF ABRUPT VERSE GRADUAL SMOKING CESSATION IN COMBINATION WITH ELECTRONIC NICOTINE DEVICES FOR SMOKERS RECEIVING ALCOHOL AND OTHER DRUG TREATMENT
Eliza Skelton*, Alistair Lum, Maryanne Robinson, Adrian Dunlop, Amanda Baker, Coral Gartner, Ron Borland, Billie Bonevski

POD9-4: LGBTQI2S YOUNG ADULT SMOKING EXPERT INTERVIEWS AND LITERATURE SYNTHESIS
Lynn Planinac*

4:30 p.m. - 6:00 p.m.
Policy Stage
Podium Presentation 3: Paper Session 10

UNDERSTANDING NICOTINE DEPENDENCE AND SMOKING CESSATION IN THE CONTEXT OF HIV
Chair: Lauren R. Pacek
Audience: PC, PH, C, *

POD10-1: INCREASE OF NICOTINE WITHDRAWAL INTENSITY IN A MOUSE MODEL OF HIV TAT NEUROPATHY
Yasmin Alkhlaif*, Wisam Toma, Pamela Knapp, Kurt Hauser, Imad Damaj

POD10-3: CIGARETTE SMOKING STATUS, DEPRESSION, ANXIETY, AND MEDICATION ADHERENCE IN A SAMPLE OF PERSONS LIVING WITH HIV/AIDS
Hannah Esan, Jennifer Gittleman, Kate S. Segal, Jonathan Shuter, Elizabeth K. Seng, Andrea H. Weinberger*

POD10-4: DEVELOPING A MINDFULNESS SMOKING CESSATION APPLICATION FOR PEOPLE LIVING WITH HIV, RESULTS FROM QUALITATIVE ASSESSMENT
Taghrid Asfar*, Adam Carrico, Maria Luisa Alcaide, Deborah Jones, Eliana Maritza Reyesa, Laura A. McClure, Amanda Perez, Judson Brewer, David J. Lee
4:30 p.m. - 6:00 p.m.
Pre-Clinical Stage

Podium Presentation 3: Symposium 7

EVALUATING THE IMPACT OF NICOTINE REGULATORY POLICIES IN A RAPIDLY CHANGING MARKET: FINDINGS FROM THE ITC PROJECT IN THE UNITED STATES, CANADA, ENGLAND, AND AUSTRALIA

Chair: Michael Cummings  
Audience: P, PH

Geoffrey T. Fong*

SYM7B: CHARACTERISTICS AND CHANGES OVER TIME OF NICOTINE VAPING PRODUCTS USED BY PARTICIPANTS IN THE 2016, 2018, AND 2020 ITC FOUR COUNTRY SMOKING AND VAPING SURVEYS  
Richard O’Connor*

SYM7C: TRENDS IN SMOKING AND VAPING AMONG YOUTH AND YOUNG ADULTS IN CANADA, ENGLAND, AND THE UNITED STATES: FINDINGS FROM THE ITC YOUTH TOBACCO AND VAPING SURVEY  
David Hammond*

SYM7D: THE ILLEGAL EXPERIMENTAL TOBACCO MARKETPLACE I: EFFECTS OF VAPING PRODUCT BANS  
Warren K. Bickel*

SYM7E: THE JUUL-ALTRIA MERGER AND IMPLICATIONS FOR THE VAPING INDUSTRY  
David Levy*

4:30 p.m. - 6:00 p.m.
Transdisciplinary Stage

Podium Presentation 3: Paper Session 11

E-CIGARETTE AND TOBACCO USE DURING A GLOBAL PANDEMIC

Chair: Daniel P. Giovenco  
Audience: PH, C

POD11-1: EFFECT OF THE COVID-19 PANDEMIC ON PERCEIVED RISK, ATTITUDES AND BEHAVIOR OF CIGARETTE SMOKERS PREVIOUSLY ENROLLED IN A SMOKING CESSATION TRIAL  

Audience Key: PC: Pre-Clinical; C: Clinical; PH: Public Health/Epidemiology; P: Policy; *: Conference Themed Session
POD11-2: TEEN VAPING EPIDEMIC MEETS COVID-19 PANDEMIC - VAPING ATTITUDES AND BEHAVIORS AMONG U.S. TEENS DURING A GLOBAL PANDEMIC
Priscilla Fernandez*, Samantha Jacobs, Mayo Djakaria, Carolyn A. Stalgaitis

POD11-3: EXPLORING LONG-TERM, OLDER SMOKERS' ATTITUDES TOWARDS SMOKING CESSATION AND MOTIVATION TO QUIT DURING THE COVID-19 PANDEMIC: A MIXED-METHODS STUDY
Marisa Cordon*, Ellie Eyestone, Sarah Hutchison, Daisy Dunlap, Laney Smith, Emily Kim, Randi Williams, Jen-Yuan Kao, Alejandra Hurtado-de-Mendoza, Kimberly Davis, Cassandra Stanton, Jennifer Frey, Vicky Parikh, Brady McKee, Kathryn Taylor

POD11-4: COVID-19, SMOKING, VAPING AND QUITTING - A REPRESENTATIVE POPULATION SURVEY IN ENGLAND
Harry Tattan-Birch, Olga Perski, Sarah Jackson, Lion Shahab, Robert West, Jamie Brown*

Kamran Siddiqi*

On-Demand Gallery
Podium Presentation 4: Symposium 8

FACTORS RELATED TO TOBACCO USE AMONG SEXUAL MINORITY WOMEN: IMPLICATIONS FOR TOBACCO CONTROL MESSAGING
Co-Chairs: Ollie Ganz and Sarah Ehlke
Audience: PH, *

SYM8A: MICROAGGRESSIONS AND SMOKING BEHAVIOR AMONG BISEXUAL WOMEN: THE PROTECTIVE ROLE OF SOCIAL SUPPORT
Sarah Ehlke*

SYM8B: ASSOCIATIONS BETWEEN MINORITY STRESS AND RESILIENCE AND SMOKING STATUS AMONG YOUNG ADULT CISGENDER SEXUAL MINORITY WOMEN
Andy Tan*

SYM8C: DIFFERENCES IN RECEPTIVITY TO PRO-TOBACCO MARKETING BY SEXUAL IDENTITY AND SEX: FINDINGS FROM THE POPULATION ASSESSMENT OF TOBACCO AND HEALTH STUDY
Ollie Ganz*

SYM8D: COMPARING PERCEIVED EFFECTIVENESS FOR ANTI-SMOKING ARGUMENTS AMONGST YOUNG ADULT LESBIAN/GAY OR BISEXUAL CISGENDER WOMEN AND GENDER MINORITY INDIVIDUALS
Ashley Sanders-Jackson*
On-Demand Gallery
Podium Presentation 4: Symposium 9

THE HEATED TOBACCO PRODUCT IQOS: A TRANSLATIONAL APPROACH TO EXAMINING USE AND RISKS FROM MARKETING TO ACUTE BEHAVIORAL AND PHYSIOLOGICAL EFFECTS

Co-Chairs: Emma Brett and Andrea King
Audience: C, PH

SYM9A: MARKETING OF IQOS THROUGH DIFFERING REGULATORY PERIODS IN ISRAEL
Carla J. Berg*, Yael Bar-Zeev, Lorien C. Abroms, Daniel Elbaz, Amal Khayat, Hagai Levine

SYM9B: ANALYZING CONSUMERS’ REACTIONS TO MODIFIED RISK STATEMENTS IN IQOS ADVERTISEMENTS
Zachary Brock Massey*, Bo Yang, Andre Vasi, Lucy Popova

SYM9C: VISUAL EXPOSURE TO IQOS USE AS A SMOKING AND VAPING CUE
Emma Brett*, Andrea King

SYM9D: MOUSE MODEL OF ACUTE EFFECTS OF INHALATION OF HEATED TOBACCO PRODUCT (IQOS) AEROSOLS ON LUNG TISSUE DAMAGE AND INFLAMMATORY CHANGES IN THE LUNGS
Tariq Bhat, Suresh Kalathil, Noel Leigh, Thivanka Muthumalage, Irfan Rahman, Maciej J. Goniewicz, Yasmin Thanavala*

On-Demand Gallery
Podium Presentation 4: Paper Session 12

PROMOTING CESSATION AMONG THOSE WITH PSYCHIATRIC DISORDERS: UTILIZING CREATIVE SOLUTIONS

Chair: Jaimee L. Heffner
Audience: C, PH

POD12-1: INTEGRATED SMOKING CESSATION TREATMENT FOR PEOPLE WITH SERIOUS MENTAL ILLNESS: RESULTS OF A RANDOMIZED PRAGMATIC SERVICE INTERVENTION TRIAL

POD12-2: FEASIBILITY AND PRELIMINARY EFFICACY OF BEHAVIORAL ACTIVATION FOR SMOKING CESSATION IN VETERANS WITH PTSD
Jessica W. Cook*, Jesse T. Kaye, Jean Beckham, Michael Messina, Timothy Baker

POD12-3: EFFECTIVENESS OF A NOVEL SMOKING CESSATION INTERVENTION AMONG LOW-INCOME SMOKERS WITH VARYING LEVELS OF PSYCHOLOGICAL DISTRESS
Siobhan Bhirangi*, Christina Wysota, Erin Rogers

Audience Key: PC: Pre-Clinical; C: Clinical; PH: Public Health/Epidemiology; P: Policy; *: Conference Themed Session
POD12-4: MINI-QUITs IN SMOKING CESSATION FOR PERSONS WITH COMORBID SERIOUS MENTAL ILLNESS & TOBACCO DEPENDENCE: A MIXED METHODS EVALUATION
Diana Arntz*, Kristina Schnitzer, Melissa C. Maravic, Nathaniel L. Phillips, Sally Reyerig, Michael Fetters, Gladys Pachas, Bianca Deeb, Sarah Pratt, Corinne Cather, A. Eden Evins

On-Demand Gallery
Podium Presentation 4: Symposium 10

TOBACCO VENDOR DENSITY AND LICENSING: STRATEGIES AND LESSONS FROM INDIA, PAKISTAN, AND THE US
Co-Chairs: Michael Iacobelli and Ryan Kennedy
Audience: P
SYM10A: TOBACCO VENDOR DENSITY IN RANCHI AND SILIGURI, INDIA
Sejal Saraf*
SYM10B: SPATIAL PATTERNS OF TOBACCO RETAILER DENSITY REDUCTION IN NEW YORK CITY: PRELIMINARY EVALUATION OF A NASCENT POLICY APPROACH
Daniel P. Giovenco*
SYM10C: LIMITING TOBACCO RETAILER DENSITY AND PROXIMITY TO SCHOOLS IN PHILADELPHIA: A TOBACCO CONTROL POLICY STRATEGY
Ryan Coffman*
SYM10D: TOBACCO VENDOR DENSITY AND LICENSING: STRATEGIES AND LESSONS FROM INDIA, PAKISTAN, AND THE US
Minhaj us Siraj*

On-Demand Gallery
Podium Presentation 4: Paper Session 13

ON THE BASIS OF SEX
Chair: Melissa Herman
Audience: PC, P
POD13-1: OVARIAN HORMONES AND CONTRACEPTIVE ESTROGEN ALTER NICOTINE DEMAND INTENSITY AND ESTROGEN AND DOPAMINE RECEPTOR EXPRESSION WITHIN THE REWARD PATHWAY
POD13-2: SEX DIFFERENCES IN RESPONSE TO NICOTINE DELIVERY RATE MANIPULATIONS
Elise E. DeVito*, Kevin P. Jensen, Mehmet Sofuoglu
POD13-3: ASSOCIATIONS OF ORAL CONTRACEPTIVE USE WITH NICOTINE DEPENDENCE IN FEMALE SMOKERS
Walter Graham Dyer*, Stephen Wilson
POD13-4: COMT GENOTYPE MODULATES THE EFFECTS OF A COMT INHIBITOR MEDICATION ON SMOKING URGES IN FEMALES
Elise E. DeVito*, Mehmet Sofuoglu

On-Demand Gallery
Podium Presentation 4: Symposium 11

BIOMARKERS FOR TOBACCO DEPENDENCE AND TREATMENT: PROMISE AND PITFALLS
Co-Chairs: Gary Swan and Li-Shiun Chen
Audience: C
SYM11A: PhenX MEASURES FOR SMOKING CESSATION AND HARM REDUCTION
Laura Bierut*
SYM11B: USING BIOMARKERS IN SMOKING CESSATION TRIALS TO EXPLAIN DIFFERENTIAL TREATMENT RESPONSE
Laurie Zawertailo*, Helena Zhang, Paulo Saquilayan, Stavroula Giannoulis, Vanessa Goncalves, Peter Selby
SYM11C: PREDICTING SMOKING CESSATION TREATMENT OUTCOMES WITH GENETIC RISK SCORES AND BIOMARKERS
Li-Shiun Chen*, Timothy Baker, Michael Bray, Giang Pham, Laura Bierut
SYM11D: BIOCHEMICAL MEASURES FOR SMOKING CESSATION TRIALS
Neal L. Benowitz*

On-Demand Gallery
Podium Presentation 4: Paper Session 14

ALTERNATIVES TO SWITCHING: BUILDING A FOUNDATION FOR ENDS CESSATION
Chair: Amanda J. Quisenberry
Audience: C
POD14-1: A BEHAVIORAL SMOKING CESSATION INTERVENTION FOR QUITLINE CALLERS WHO ALSO USE E-CIGARETTES
Katrina A. Vickerman*, Kelly M. Carpenter, Karen Watt, Lyndsay Miles, Johnathan Hsu, Thomas Brandon, Jonathan Hart, Harold Javitz, Theodore Wagener
POD14-2: EFFECTS OF SHORT-TERM NICOTINE DEPRIVATION ON DELAY DISCOUNTING AMONG YOUNG E-CIGARETTE USERS
Irene Pericot-Valverde*, Jin Yoon, Moonseong Heo, Alain Litwin, Jiajing Niu, Diann Gaalema
POD14-3: SMOKING CESSATION OUTCOMES AND FACTORS ASSOCIATED WITH CONTINUED VERSUS DISCONTINUED USE OF E-CIGARETTES: A SAMPLE OF TREATMENT-SEEKING SMOKERS
Noreen L. Watson*, Diana M. Kwon, Kristin E. Mull, Jonathan B. Bricker

Audience Key: PC: Pre-Clinical; C: Clinical; PH: Public Health/Epidemiology; P: Policy; *: Conference Themed Session
POD14-4: HOW AND WHY DO DUAL USERS QUIT ELECTRONIC CIGARETTES? FINDINGS FROM A SURVEY OF ADULTS WHO USE ELECTRONIC AND COMBUSTIBLE CIGARETTES
Elias M. Klemperer*, Andrea Villanti

POD14-5: UNDERSTANDING CONTEXTS OF SMOKING VERSUS VAPING AMONG DUAL USERS - ANALYSIS OF ECOLOGICAL MOMENTARY ASSESSMENT DATA
Megan E. Piper*, Timothy B. Baker, Deejay Zwaga, Daniel M. Bolt, Kate H. Kobinsky, Douglas E. Jorenby

On-Demand Gallery
Podium Presentation 4: Symposium 12

HOSPITAL AND OUTPATIENT TOBACCO TREATMENT PROGRAMS IN THE UNITED STATES: MODELS AND ASSOCIATED HEALTH OUTCOMES
Chair: Alana M. Rojewski
Audience: C

SYM12A: MODELS FOR ESTABLISHING A TOBACCO TREATMENT PROGRAM IN A U.S. HOSPITAL OR OUTPATIENT CENTER
Stephanie R. Land*, Hasmeena Kathuria, Lisa M. Fucito, Panagis Galiatsatos, Glen D. Morgan, Kimber P. Richter

SYM12B: CATEGORIZING SMOKERS TREATED IN A HOSPITAL-BASED INPATIENT TOBACCO TREATMENT INTERVENTION: A LATENT CLASS ANALYSIS
Amanda M. Palmer*, Georges Nahhas, Benjamin Toll, Alana M. Rojewski

SYM12C: POINT-OF-CARE TOBACCO TREATMENT AND CANCER PATIENT SURVIVAL
Li-Shiun Chen*, Alex T. Ramsey, Timothy Baker, Jingling Chen, Nina Smock, Laura J. Bierut

SYM12D: UB PREGNANCY AND SMOKING CESSATION PROGRAM: PROCESS AND OUTCOME EVALUATIONS
Xiaozhong Wen*, Aziz Shittu, Rishi Gupta, Arsh Issany, Joshua Sorrentino, Seth Frndak

On-Demand Gallery
Podium Presentation 4: Symposium 13

Co-Chairs: Nicolette Borek and Heather Kimmel
Audience: PH

Andrew Hyland*
On-Demand Gallery
Podium Presentation 4: Paper Session 15

LATE BREAKING: HEALTH EQUITY I

Chair: Christie D. Fowler; Angeline Dukes
Audience: *, P, PH, C

POD15-1: THE IMPACT OF RACIAL DISPARITIES AND E-CIGARETTE USE ON PROSPECTIVE ASSOCIATIONS BETWEEN MENTHOL CIGARETTE FLAVORING AND SMOKING CESSION
Steven Cook*, Jana Hirschtick, David Levy, Rafael Meza, Nancy Fleischer

POD15-2: LOCAL-LEVEL MENTHOL POLICIES -- IMPACT ON CIGARETTE SALES IN MINNEAPOLIS AND ST. PAUL
Lindsay Olson*, Doris Gammon, Todd Rogers, Elizabeth Brown, James Nonnemaker, Ashley Ross, Xin Xu

POD15-3: THE DIFFERENTIAL IMPACT OF THE POS BAN ON QUIT ATTEMPTS AND SMOKING CESSION BY SEX, INCOME, AND EDUCATION
Bukola Usidame*, Yanmei Xie, James Thrasher, Paula Lozano, Geoffrey Fong, Nancy Fleischer

POD15-4: “IT IS THE ONE THING THAT HAS WORKED:”QUALITATIVE ANALYSIS OF SUBJECTIVE EXPERIENCE WITH NICOTINE SALT POD SYSTEM E-CIGARETTES AMONG AFRICAN AMERICAN AND LATINX SMOKERS IN A RANDOMIZED CLINICAL TRIAL
Kim Pulvers*, Myra Rice, Jasjit S. Ahluwalia, Michael J. Arnold, Crystal Marez, Nicole L. Nollen

POD15-5: GLOBAL REGIONAL ECONOMIC AND TOBACCO REGULATORY FACTORS INFLUENCE SMOKING CESSION OUTCOMES IN THE MULTINATIONAL EAGLES TRIAL
Belinda Daniel*, David E. Lawrence, Benjamin S. McKenna, Phillip Saccone, Thomas McRae, A. Eden Evins, Alok Krishen, Robert Anthenelli

POD15-6: CHANGES IN INCOME PREDICT SUBSEQUENT INITIATION AND CESSION OF CIGARETTE USE BUT NOT E-CIGARETTE USE IN THE UNITED STATES
Charles Marks*, Jennifer Pearson, Natasha Martin, Dan Werb

On-Demand Gallery
Podium Presentation 4: Paper Session 16

INTERSECTION OF MENTAL HEALTH AND DRUG USE

Chair: Christie D. Fowler; Angeline Dukes
Audience: P, C, PH

POD16-1: URGE TO SMOKE MEDIATES THE EFFECTS OF MINDFULNESS-BASED SMOKING CESSION INTERVENTION ON DAILY SMOKING RISK FOR SOCIOECONOMICALLY DISADVANTAGED SMOKERS WITH MOOD DISORDERS
Haruka Minami*, Shadi Nahvi, Danusha Selva Kumar, Joun Lee, Michael Randazza
POD16-2: PREDICTORS OF NON-COMPLIANCE WITH VERY LOW NICOTINE CONTENT CIGARETTES IN SMOKERS WITH SERIOUS MENTAL ILLNESS
Grace Reed*, Suzanne Colby, Alexander Sokolovsky, Teresa DeAtley, Jennifer Tidey

POD16-3: SMOKING, DISTRESS AND COVID-19 IN ENGLAND CROSS-SECTIONAL POPULATION SURVEYS FROM 2016 TO 2020
Loren Kock*, Jamie Brown, Lion Shahab, Graham Moore, Marie Horton, Leonie Brose

POD16-4: EFFECTIVENESS OF MENTAL HEALTH WARNINGS ON TOBACCO PACKAGING IN PEOPLE WITH AND WITHOUT COMMON MENTAL HEALTH CONDITIONS AN ONLINE RANDOMISED EXPERIMENT
Katherine Sawyer*, Long Yee Ng, Tom P Freeman, Sally Adams, Gemma Taylor

POD16-5: TOBACCO USE AND TREATMENT PREFERENCES AMONG ADULTS ACCESSING SERVICES AT A DAY SHELTER
Laili Boozary*, Adam Alexander, Joseph Waring, Summer Frank, Sarah Ehlke, Michael Businelle, Amy Cohn, Darla Kendzor

POD16-6: ADHD AND CIGARETTE SMOKING: EARLY ADULT FACTORS THAT INCREASE RISK OF DAILY SMOKING BY AGE 29 FOR CHILDREN WITH ADHD
Jessica D. Rhodes*, Traci M. Kennedy, Christine Walther, Elizabeth M. Gnagy, William E. Pelham, Jr, Brooke S. G. Molina

On-Demand Gallery
Podium Presentation 4: Paper Session 17

LATE BREAKING: MARKETING

Chair: Jennifer Pearson
Audience: PH, P

POD17-1: CAN PATH SURVEY SUSCEPTIBILITY MEASURES PREDICT E-CIGARETTE AND CIGARETTE USE AMONG YOUTH ONE YEAR LATER
Ruoyan Sun*, Kenneth Warner, David Mendez

POD17-2: HOW THE NATURAL AMERICAN SPIRIT CIGARETTE ADVERTISING CHANGE AFTER THE FDA ORDER, A CONTENT ANALYSIS OF MAGAZINE ADS FROM 2000-2020
Jane Lewis*, Ollie Ganz, Dmitriy Nikitin, Zeinab Safi, Mariam Rashid, Eugene Talbot

POD17-3: TIME VARYING EFFECTS OF DIFFERENT CIGARETTE PACKAGE EXPOSURES ON SMOKING CESSION OUTCOMES PRELIMINARY EVIDENCE FROM A LONGITUDINAL RANDOMIZED CONTROLLED TRIAL
Chih-Hsiang Yang*, Victoria C. Lambert, Chung-Li Wu, James Thrasher

POD17-4: CHANGES IN EXPOSURE TO AND PERCEPTIONS OF E-CIGARETTE MARKETING: FINDINGS FROM THE 2017-2019 ITC YOUTH AND VAPING SURVEY
Yoo Jin Cho*, James Thrasher, Pete Driezen, Sara Hitchman, Jessica Reid, David Hammond
POD17-5: PROJECTED IMPACT OF APPLYING PLAIN PACKAGING TO TOBACCO PRODUCTS IN ARGENTINA. A MODELING STUDY
M. Victoria Salgado, Joanne Penko, Alicia Fernandez, Raul Mejia*

On-Demand Gallery
Podium Presentation 4: Paper Session 18

LATE BREAKING: PRE-CLINICAL
Chair: Erin A. McClure
Audience: PC

POD18-1: TOBACCO SMOKE EXPOSURE INCREASES ACE2 ACTIVITY
Arunava Ghosh*, Raymond D. Coakley, Joe A. Wrennall, Jason M. Sheltzer, Neil E. Alexis, Robert Tarran

POD18-2: E-CIG AEROSOL REDUCES THE EXPRESSION OF KEY ANTIOXIDANT REGULATORS AND INCREASES INFLAMMATORY MARKERS
Vengatesh Ganapathy*, Jimmy Manyanga, Daniel Brobst, Constantin Georgescu, Jonathan Wren, Lurdes Queimado

POD18-3: CANNABIDIOL REDUCES WITHDRAWAL SYMPTOMS IN NICOTINE DEPENDENT RATS
Marsida Kallupi*

POD18-4: EXAMINATION OF SEX DIFFERENCES AND IMPACT OF DRUG EXPOSURE ORDER ON THE REWARD-ENHANCING EFFECTS OF NICOTINE AND D-AMPHETAMINE
Kathleen R. McNealy*, Sydney D. Houser, Scott T. Barrett, Rick A. Bevins

POD18-5: CARBONYL PROFILES OF ELECTRONIC NICOTINE DELIVERY SYSTEM (ENDS) AEROSOLS ARE FLAVOR-SENSITIVE; STRAWBERRY FLAVOR AFFECTS BRONCHIAL EPITHELIAL CELL REDOX SIGNALING
Alexandra Noel*, Arpita Ghosh, Arthur Penn

POD18-6: HUMAN 3'UTR POLYMORPHISM (RS2304297) IN THE ALPHA(6) NICOTINIC ACETYLCHOLINE RECEPTOR SUBUNIT ENHANCES NICOTINE PLUS CUE-INDUCED REINSTATEMENT IN ADOLESCENT SPRAGUE-DAWLEY RATS
Diana Carreno*, Shahrad Lotfipour

Audience Key: PC: Pre-Clinical; C: Clinical; PH: Public Health/Epidemiology; P: Policy; *: Conference Themed Session
SESSION SUMMARY
FRIDAY
FEBRUARY 26, 2021
7:30 a.m. - 9:00 a.m.
Pre-Clinical Stage

Podium Presentation 5: Paper Session 21

MULTI-SYSTEM IMPACT OF NICOTINE EXPOSURE: COVID AND BEYOND

Chair: Heather Kimmel
Audience: PC, C, PH

POD21-1: IS THERE A LINK BETWEEN E-CIGARETTE USE AND COVID-19?
Valeria Lallai*, Letizia Manca, Christie Fowler

POD21-2: ROLE OF SMOKE ON ACE-2 MEMBRANE PROTEIN EXPRESSION IN BRONCHIAL EPITHELIAL CELLS
Giovanni Li Volti*, Rosalia Emma, Alfio Distefano, Giuseppe Carota, Pietro Zuccarello, Riccardo Polosa, Michelino Di Rosa, Massimo Caruso

POD21-3: EXPOSURE TO E-CIGARETTE AEROSOL EXTRACTS ALTERS THE EXPRESSION OF CYTOCHROME P450 MONO-OXYGENASE ENZYMES
Jimmy Manyanga, Vengatesh Ganapathy, Daniel Brobst, Jonathan Wren, Lurdes Queimado*

POD21-4: DYSBIOSIS OF THE ORAL MICROBIOTA IS SPECIFIC TO TOBACCO PRODUCT USED
Suhana Chattopadhyay*, Leena Malayil, Emmanuel F. Mongodin, Amy R. Sapkota

POD21-5: PRENATAL EXPOSURE TO WATERPIPE SMOKE INCREASES THE RISK OF THROMBOTIC EVENTS VIA ENHANCING PLATELET REACTIVITY
Ahmed B. Alarabi, Zubair Karim, Patricia Lozano, Keziah Hernandez, Fadi Khasawneh, Hamdy Ali, Fatima Z. Alshbool*

7:30 a.m. - 9:00 a.m.
Clinical Stage

Podium Presentation 5: Paper Session 22

NOVEL APPROACHES TO DESIGNING AND EVALUATING SMOKING CESSATION INTERVENTIONS

Chair: Felix Naughton
Audience: C, PH

POD22-1: CO-DESIGN OF AN SMS TEXT MESSAGE SUPPORT PROGRAMME FOR SMOCKERS TO USE E-CIGARETTE TO QUIT SMOKING
Lynne Dawkins*, Sharon Cox, Daniel Frings, Jamie Brown, Eleni Vangeli, Vassilis Sideropoulos, Caitlin Notley, Catherine Kimber, Felix Naughton

Audience Key: PC: Pre-Clinical; C: Clinical; PH: Public Health/Epidemiology; P: Policy; *: Conference Themed Session
POD22-2: COCHRANE NETWORK META-ANALYSIS OF 312 TRIALS TO DETERMINE WHAT WORKS IN BEHAVIOURAL TREATMENT FOR SMOKING CESSATION
Jamie Hartmann-Boyce*, Jonathan Livingstone-Banks, José Ordóñez-Mena, Thomas R. Fanshawe, Nicola Lindson, Suzanne C. Freeman, Alex J. Sutton, Annika Theodoulou, Paul Aveyard

POD22-3: BABYBREATHE TRIAL - PROTOCOL FOR A RANDOMISED CONTROLLED TRIAL OF A COMPLEX INTERVENTION TO PREVENT RETURN TO SMOKING POSTPARTUM
Caitlin Notley*, Linda Bauld, Michael Ussher, Tess Harris, Vicky Gilroy, Felix Naughton, Wendy Hardeman, Tracey Brown, Allan Clark, David Turner, Dan Smith

POD22-4: PROTECTING CHILDREN FROM TOBACCO SMOKE EXPOSURE - A RANDOMIZED CONTROLLED TRIAL
Laura Rosen*, David Zucker, Nurit Guttman, Nili Brown, Michal Bitan, Ana Rule, M Berkovitch, Vicki Myers

7:30 a.m. - 9:00 a.m.
Health Disparities & Health Equity Stage
**Podium Presentation 5: Paper Session 23**

UNDERSTANDING AND TREATING INEQUALITIES IN SMOKING

Chair: Sharon Cox
Audience: PH, C, *

POD23-1: AN INTEGRATED METHOD TO PRESENT TRENDS IN HEALTH INEQUALITIES AND APPLICATION TO 2003-2015 TRENDS IN SOCIOECONOMIC INEQUALITIES IN ADOLESCENT SMOKING IN EUROPE
Mirte Kuipers*, Kaidi Kang, Anca Dragomir, Karin Monshouwer, George Luta, Anton Kunst

POD23-2: SECOND HAND SMOKE EXPOSURE DURING PREGNANCY, QUALITATIVE INTERVIEWS WITH ISRAELI PREGNANT WOMEN WHO HAVE A PARTNER THAT SMOKES
Maya Rodnay*, Yael Bar-Zeev

POD23-3: THE SMOKE-FREE TOGETHER APP - FOLLOW-UP OF A MHEALTH PREGNANCY SMOKING CESSATION INTERVENTION IN ROMANIA
Teodora D. Fratila, Oana M. Blaga, Marina D. Dascal, Alexandra Onisor, Cristian I. Meghea*

POD23-4: “THE ONLY REAL SMOKE” AND ALTERNATIVE NICOTINE PRODUCTS: HOW DO REAL WORLD SMOKERS PERCEIVE TOBACCO HARM REDUCTION?
Erikas Simonavicius*, Ann McNeill, Leonie S. Brose
7:30 a.m. - 9:00 a.m.  
Policy Stage  
**Podium Presentation 5: Symposium 14**

UNDERSTANDING E-CIGARETTE REGULATORY STANCES ACROSS HIGH-INCOME COUNTRIES: MAKING SENSE OF DIVERGENT POLICY, POLITICS, GUIDANCE, AND EVIDENCE  
*Chair: Joanna E. Cohen*  
*Audience: P*

SYM14A: THE DIVERGENT REGULATORY STANCES TOWARDS E-CIGARETTES IN HIGH-INCOME CASE COUNTRIES: EVIDENCE FROM THE GLOBAL E-CIGARETTE POLICY SCAN  
Ryan David Kennedy*

SYM14B: THE AUSTRALIAN REGULATORY APPROACH TO E-CIGARETTES  
Coral E. Gartner*

SYM14C: E-CIGARETTE REGULATORY POLICY CHANGE AND STASIS IN AUSTRALIA, CANADA, AND NEW ZEALAND: LESSONS FROM A MULTIPLE STREAMS APPROACH  
Alex C. Liber*

SYM14D: UNDERSTANDING THE ROLE OF EVIDENCE AND MANAGEMENT CONFLICTS OF INTEREST IN E-CIGARETTE REGULATION AND POLICY: A QUALITATIVE INTERVIEW STUDY  
Marissa Smith*

7:30 a.m. - 9:00 a.m.  
Transdisciplinary Stage  
**Podium Presentation 5: Symposium 15**

PLAIN PACKAGING FOR THE 2020s  
*Chair: Emily Brennan*  
*Audience: PH, P, C*

SYM15A: IMPACT OF STANDARDISED PACKAGING AND LARGER HEALTH WARNINGS ON CHOICE AND VISUAL ATTENTION AMONG COLOMBIAN SMOKERS AND NON-SMOKERS  
Olivia Maynard*, Carlos Sillero-Rejon, Osama Mahmoud, Ricardo Tamayo, Alvaro Alvarez, Sally Adams

SYM15B: YOUNG ADULT ROLLING TOBACCO SMOKERS' PERCEPTIONS OF PROMOTIONAL AND PLAIN ROLLING PAPERS  
Crawford Moodie*, Rachel O'Donnell

SYM15C: PLAIN PACKAGING OF E-CIGARETTE PRODUCTS: AN EXPERIMENTAL STUDY OF APPEAL AMONG YOUTH  
David Hammond*, Jessica Reid
SYM15D: EVALUATING CIGARETTE PACK INSERTS WITH MESSAGES ABOUT CESSATION BENEFITS AND TIPS TO QUIT: A RANDOMIZED FIELD TRIAL  
James F. Thrasher*, Jeff Niederdeppe, Victoria Lambert, Norman Porticella, Emily Loud, Chung Li Wu, James Hardin, Stuart Ferguson

7:30 a.m. - 9:00 a.m.  
Public Health Stage  
Podium Presentation 5: Paper Session 24  
TOBACCO CONTROL IN LOW AND MIDDLE INCOME COUNTRIES  
Chair: Jasjit S. Ahluwalia  
Audience: P, PH  
POD24-1: EVALUATION OF TOBACCO CONTROL POLICIES IN ZAMBIA: FINDINGS FROM THE ITC ZAMBIA SURVEYS  
Fastone Goma, Masauso Phiri, Richard Zulu, Susan Kaai*, Lorraine Craig, Gang Meng, Anne C.K Quah, Geoffrey T. Fong  
POD24-2: EXPOSURE TO SECONDHAND SMOKE IN PUBLIC PLACES IN KENYA AND ZAMBIA: FINDINGS FROM ITC KENYA AND ZAMBIA SURVEYS  
Susan C. Kaai*, Lorraine Craig, Jane R. Ong’ang’o, Gang Meng, Fastone Goma, Anne C.K Quah, Lawrence Ikamari, Geoffrey T. Fong  
POD24-3: THE PERCEIVED RELATIVE HARM OF COVID-19 AMONG MEXICAN ADULT SMOKERS  
POD24-4: FEMININE MARKETING APPEALS ON CIGARETTE PACKS IN 14 COUNTRIES OVER TIME  
Lauren Czaplicki*, Kevin Welding, Katherine Clegg Smith, Joanna Cohen

9:30 a.m. - 11:00 a.m.  
Health Disparities & Health Equity Stage  
Podium Presentation 6: Symposium 16  
TRANSLATIONAL PERSPECTIVES ON MENTHOL AND BLUNT USE  
Co-Chairs: Mary Kautz and Wilson M. Compton  
Audience: C, *  
SYM16A: MENTHOL EFFECTS ON NICOTINE REWARD, AVERSION, AND USE BEHAVIOR IN A PRECLINICAL RODENT MODEL  
SYM16B: INFLUENCE OF MENTHOL FLAVOR ON TOBACCO AND MARIJUANA USE BEHAVIORS  
Suchitra Krishnan-Sarin*, Krysten Bold  

SYM16C: CANNABIS BLUNT SMOKING AND INITIATION OF TOBACCO PRODUCTS AMONG  
U.S. YOUTH AND YOUNG ADULT  
Brian J. Fairman*, Heather Kimmel, Carlos Blanco, Wilson M. Compton

9:30 a.m. - 11:00 a.m.  
Public Health Stage  
**Podium Presentation 6: Paper Session 25**  

**CANNABIS VAPING AND SMOKING AMONG YOUTH AND YOUNG ADULTS**  
*Chair: Amy M. Cohn*  
**Audience: PH**

POD25-1: CHANGING MARIJUANA BEHAVIORS - THE EMERGENCE OF MARIJUANA VAPING  
Josephine T. Hinds*, Nathan Marti, Keryn E. Pasch, Alexandra Loukas

POD25-2: YOUNG ADULTS’ INCREASING USE OF MARIJUANA IN ENDS DEVICES  
Josephine T. Hinds*, Keryn E. Pasch, Alexandra Loukas

POD25-3: ASSOCIATION OF VAPING MARIJUANA AND SYMPTOMS OF DEPRESSION AMONG  
YOUTH  
Aslesha Sumbe*, Anna V. Wilkinson, Baojiang Chen, Stephanie L. Clendennen, Melissa B. Harrell

POD25-4: PERCEIVED PRODUCT HARM AND INTENTIONS TO QUIT MARIJUANA- OR  
NICOTINE-CONTAINING VAPE PRODUCTS DURING THE EMERGENCE OF E-CIGARETTE/  
VAPING-ASSOCIATED LUNG INJURY (EVALI) IN THE UNITED STATES, AUGUST - DECEMBER  
2019  
Jennifer Kreslake*, Alison Cuccia, Megan Diaz, Morgane Bennett, Barbara Schillo, Donna Vallone,  
Elizabeth Hair

POD25-5: AGE-VARYING ASSOCIATIONS BETWEEN CIGARETTE SMOKING INITIATION AND  
CANNABIS USE AMONG CHILEAN ADOLESCENTS  
Constanza Paulina Silva Gallardo*, Ashley N. Linden-Carmichael, John Dziak, Helen M. Kamens

9:30 a.m. - 11:00 a.m.  
Clinical Stage  
**Podium Presentation 6: Symposium 17**  

**DIGITAL THERAPEUTICS: SCIENCE IS GOOD BUT IMPACT IS BETTER**  
*Chair: Kevin Walton*  
**Audience: C**

SYM17A: A Smartphone-Smartcard Implementation of Contingency Management for Smoking  
Cessation  
David R. Gastfriend*, Alison N. Kurti, Stephen T. Higgins

**Audience Key:** PC: Pre-Clinical; C: Clinical; PH: Public Health/Epidemiology; P: Policy; *: Conference Themed Session
SYM17B: OPPORTUNITIES AND CHALLENGES OF REAL-WORLD RESEARCH ON A WIDELY DISSEMINATED DIGITAL CESSATION INTERVENTION  
Amanda L. Graham*, Michael S. Amato, George D. Papandonatos, Megan A. Jacobs, Kang Zhao, Sarah Cha

SYM17C: DEVELOPMENT, PRELIMINARY EFFICACY, AND REGULATORY OVERSIGHT OF A NOVEL DIGITAL THERAPEUTIC TO TREAT TOBACCO USE DISORDERS IN PATIENTS WITH SERIOUS MENTAL ILLNESS  
Roger Vilardaga*, Rebecca L. Ashare, Robert A. Schnoll, Francis J. McClernon

SYM17D: REGULATION OF MEDICAL DEVICES IN A DIGITAL HEALTH ERA  
John Marler*, Patrick Antkowiak

9:30 a.m. - 11:00 a.m.  
Policy Stage  
Podium Presentation 6: Symposium 18

PAVING THE ROAD WITH THE BEST INTENTIONS STILL LEADS US HERE: (NEGATIVE) UNINTENDED CONSEQUENCES OF TOBACCO REGULATORY POLICIES ACROSS PRODUCTS AND POPULATIONS  
Chair: Martin Dockrell  
Audience: P

SYM18A: MANY COUNTRIES HAVE A MINIMUM BUT NO MAXIMUM CIGARETTE PACK SIZE: THE POLICY GAP BEING EXPLOITED FOR MARKET GAIN  
Anna Blackwell*, Ilse Lee, Marcus R. Munafo, Theresa Marteau

SYM18B: VERY LOW NICOTINE CONTENT (VLNC) CIGARETTES: ANTICIPATED BENEFITS AND POTENTIAL UNINTENDED CONSEQUENCES  
Clifford Douglas*

SYM18C: LIMITS ON E-CIGARETTE NICOTINE CONCENTRATION IN MARKETS WITH OPEN-SYSTEM DEVICES: THE INTERACTION OF NICOTINE CONCENTRATION AND DEVICE POWER ON E-CIGARETTE ABUSE LIABILITY  
Andrew Barnes*, Rose Bono, Rebecca Lester, Cosima Hoetger, Megan Underwood, Augustus White, Caroline O. Cobb

SYM18D: THE GOOD AND BAD OF FLAVOURED E-LIQUIDS: TWO STUDIES EXPLORING THE EFFECTS OF E-LIQUID FLAVOURING ON CIGARETTE CRAVING IN ADULT SMOKERS AND SUBJECTIVE RESPONSES TO E-LIQUID PACKAGING IN ADOLESCENTS  
Angela Attwood*, Maddy Dyer, Abigail Jackson, Jasmine Khouja
9:30 a.m. - 11:00 a.m.
Pre-Clinical Stage
Podium Presentation 6: Symposium 19

USING BIOMARKERS TO CONNECT THE DOTS: EXPOSURE, HARM, AND DISEASE

Chair: Cindy Chang  
Audience: PC, C, PH

SYM19A: VARIABILITY IN EXPOSURE BIOMARKER LEVELS BETWEEN WAVES 1 AND 2 IN THE POPULATION ASSESSMENT OF TOBACCO AND HEALTH STUDY  
David L. Ashley*, Wanzhe Zhu, Lanqing Wang, Connie Sosnoff, Jun Feng, Arseima Del Valle-Pineiro Reissig, Cindy Chang, Dana van Bemmel, Nicolette Borek, Heather Kimmel, Marushka L. Silveira, Ben Blount

SYM19B: CANCER RISK ASSOCIATED WITH BIOMARKERS OF CARCINOGEN EXPOSURE AMONG TOBACCO USERS IN THE GOLESTAN COHORT STUDY  

SYM19C: OXIDATIVE STRESS AND ISCHEMIC HEART DISEASE (IHD) AND CHRONIC OBSTRUCTION PULMONARY DISEASE (COPD) MORTALITY IN THE GOLESTAN COHORT OF TOBACCO USERS  
Carol H. Christensen*, Jia Wang, Sapna Thakur, Arash Etemadi, Neal David Freedman, Christian Abnet, Sanford M. Dawsey, Mitchell H. Gail, Barry Graubard, Maki Inoue-Choi, Cory Holder, Lanqing Wang, Ben Blount, Jun Feng, Reza Malekzadeh, Mahd Nalini, Hossein Poustchi, Masoud Khsohnia, Gholamreza Roshandel, Farin Kamangar, Paolo Boffetta, Cindy Chang

SYM19D: BIOMARKER EVIDENCE IDENTIFYING VITAMIN E ACETATE AS A CAUSE OF E-CIGARETTE, OR VAPING, PRODUCT ASSOCIATED LUNG INJURY (EVALI)  
Ben Blount*

9:30 a.m. - 11:00 a.m.
Transdisciplinary Stage
Podium Presentation 6: Paper Session 26

UPDATES ON WOMEN AND SMOKING

Chair: Steffani R. Bailey  
Audience: C, P

POD26-1: MATERNAL DEPRESSIVE SYMPTOMS ARE ASSOCIATED WITH POSITIVE SCREENS FOR COTININE AND THC DURING PREGNANCY  
Natacha M. De Genna*, Gale A. Richardson, Michele D. Levine, Judy C. Chang
POD26-2: PILOT RANDOMIZED CONTROLLED TRIAL OF QUIT TOGETHER, A COUPLE FOCUSED PREGNANCY SMOKING CESSATION INTERVENTION IN ROMANIA
Cristian I. Meghea*, Oana Blaga, Rana Jaber, Alexandra Onisor, David Wetter, Marina D. Dascal

POD26-3: EFFECT OF SEX HORMONES ON WORKING MEMORY BOTH DURING ABSTINENCE AND FOLLOWING NICOTINE EXPOSURE
Ryan Colakovic*, Katherine Harrison, Ashley Petersen, Sharon Allen

POD26-4: FEASIBILITY AND ACCEPTABILITY OF TIMING QUIT DATE TO MENSTRUAL PHASE IN A QUITLINE SETTING: RESULTS FROM A PRELIMINARY RANDOMIZED TRIAL
Alicia Allen*, Iva Skobic, Melanie Bell, Uma Nair

POD26-5: THE EFFECT OF E-CIGARETTE TAXES ON PRE-PREGNANCY AND PRENATAL SMOKING
Rahi Abouk, Scott Adams, Bo Feng, Johanna C. Maclean, Michael Pesko*

11:00 a.m. - 11:30 a.m.
Virtual Break

11:30 a.m. - 1:00 p.m.
Main Stage
Awards Session
Pre-Clinical Keynote Plenary & 2021 Langley Award Winner Session
Functions of Nicotinic Acetylcholine Receptors in Circuits and Behaviors Relevant to Use of Tobacco Products
Session Chairs: Tom Glynn, PhD; Suchitra Krishnan-Sarin, PhD
Presenter: Marina R. Picciotto, PhD

1:00 p.m. - 1:30 p.m.
Virtual Break

1:30 p.m. - 3:00 p.m.
Health Disparities & Health Equity Stage
Podium Presentation 7: Paper Session 27
NAMING MECHANISMS DRIVING HEALTH DISPARITIES
Chair: Sabrina L. Smiley
Audience: PH, P, *
POD27-1: THE ELEPHANT IN THE ROOM: A SCOPING REVIEW OF NAMING RACISM IN TOBACCO CONTROL
Carrie Rosario*
Jaqueline Avila*, Nikki Nollen, Juhan Lee, Christopher Schmid, Jasjit Ahluwalia

POD27-3: A LONGITUDINAL ANALYSIS OF SMOKE-FREE LAWS AND SMOKING DISPARITIES AMONG YOUNG ADULTS IN THE UNITED STATES  
Andrea R. Titus*, Yanmei Xie, James F. Thrasher, David T. Levy, Michael R. Elliott, Megan E. Patrick, Nancy L. Fleischer

POD27-4: SMOKE-FREE LAWS AND DISPARITIES IN SECONDHAND SMOKE EXPOSURE AMONG NONSMOKING ADULTS IN THE UNITED STATES, 1999-2014  
Andrea R. Titus*, James F. Thrasher, Kristi E. Gamarel, Rafael Meza, Nancy L. Fleischer

1:30 p.m. - 3:00 p.m.  
Public Health Stage  
Podium Presentation 7: Paper Session 28  
EVALUATIONS OF NATIONAL MEDIA CAMPAIGNS  
Chair: Meghan Bridgid Moran  
Audience: PH

POD28-1: CDC’S 2019 TIPS FROM FORMER SMOKERS® CAMPAIGN: FORMATIVE EVALUATION OF TELEVISION ADVERTISEMENTS AMONG ADULTS WHO SMOKED Cigarettes  
Michelle O’Hegarty*, Lisa John, Carol Haney, Diane Beistle

POD28-2: EFFECT OF A NATIONAL TOBACCO PUBLIC EDUCATION CAMPAIGN ON YOUTH’S RISK PERCEPTIONS AND BELIEFS ABOUT VAPING AND SMOKING  
Anna MacMonegle*, Jennifer Duke, Leah Siegel-Reamer, Jessica Speer, Alexandria Smith, Tesfa Alexander, Xiaoquan Zhao, Jane Allen, James Nonnemaker

POD28-3: ASSESSING THE EFFECTS OF THE TRUTH CAMPAIGN ON YOUTH AND YOUNG ADULT SMOKING BEHAVIOR BY DEMOGRAPHIC SUBGROUPS  
Siobhan N. Perks*, Elizabeth C. Hair, Jennifer M. Kreslake, Jessica M. Rath, Donna M. Vallone

POD28-4: CAMPAIGN EVALUATION FINDINGS FOR THE THIS FREE LIFE COMMUNICATION CAMPAIGN TO PREVENT AND REDUCE DAILY CIGARETTE USE AMONG LGBT YOUNG ADULTS IN THE UNITED STATES  
Erik Crankshaw*, Jamie Guillory, Jennifer Gaber, Matthew Farrelly, Laurel Curry, Anu Warrier, Ishrat Alam, McKinley Saunders, Tesfa Alexander, Allison Alexander, Janine Delahanty, Debra Mekos, Leah Hoffman, Ollie Ganz

POD28-5: REACH, RECEPtIVITY, AND BELIEF CHANGE ASSOCIATED WITH THE FRESH EMPIRE CAMPAIGN TO PREVENT AND REDUCE CIGARETTE USE AMONG HIP HOP YOUTH IN THE UNITED STATES  
Jamie Guillory*, Amy Henes, Matthew Farrelly, Ghada Homsi, McKinley Saunders, Leah Fiacco, Laurel Curry, Anna MacMonegle, Tesfa N. Alexander, Merrybelle Guo, Janine Delahanty, Debra Mekos, Leah Hoffman, Ollie Ganz

Audience Key: PC: Pre-Clinical; C: Clinical; PH: Public Health/Epidemiology; P: Policy; *: Conference Themed Session
1:30 p.m. - 3:00 p.m.
Clinical Stage
Podium Presentation 7: Symposium 20

VAPOING CESSATION AMONG YOUTH/YOUNG ADULTS: INSIGHTS FROM FOCUS GROUPS AND NOVEL TREATMENT PROGRAMS

Co-Chairs: Grace Kong and Krysten Bold
Audience: C

SYM20A: QUITTING EXPERIENCE OF ADOLESCENT E-CIGARETTE USERS: A QUALITATIVE STUDY
Grace Kong*

SYM20B: E-CIGARETTE CESSATION PROGRAMS: WHAT DO YOUTH WANT?
Krysten W. Bold*

SYM20C: DEVELOPING A HEALTHY FUTURES CURRICULUM FOR YOUTH E-CIGARETTE USE
Bonnie Halpern-Felsher*

SYM20D: WHO, WHAT, WHEN, WHERE, AND WHY? NOVEL INSIGHTS ABOUT YOUNG PEOPLE WHO VAPE FROM A TEXT MESSAGE CESSATION PROGRAM
Mia M. Bottcher*

SYM20E: REACH, ENGAGEMENT AND CESSATION IN THE MY LIFE, MY QUIT YOUTH TOBACCO QUITLINE PROGRAM
Thomas Ylioja*

1:30 p.m. - 3:00 p.m.
Policy Stage
Podium Presentation 7: Symposium 21

TOBACCO USE DISPARITIES AND HEALTH OUTCOMES THROUGH THE LENS OF SIMULATION MODELING

Co-Chairs: Rafael Meza and Jamie Tam
Audience: P, PH

Theodore Holford*, Lisa McKay, Jihyoun Jeon, David T. Levy, Jamie Tam, Rafael Meza

SYM21B: BIRTH COHORT-SPECIFIC SMOKING PATTERNS BY SOCIOECONOMIC AND SOCIODEMOGRAPHIC FACTORS IN THE US
Jihyoun Jeon*, Pianpian Cao, Jamie Tam, Danny Luan, David T. Levy, Nancy Fleischer, Theodore Holford, Rafael Meza
SYM21C: A SIMULATION MODEL OF SMOKING, ENDS USE, AND HEALTH OUTCOMES AMONG U.S. BLACKS
Rafael Meza*, Pianpian Cao, Yoonseo Mok, Jamie Tam, David T. Levy, Theodore Holford, Jihyoun Jeon

Thuy Le*, David Mendez

1:30 p.m. - 3:00 p.m.
Pre-Clinical Stage
Podium Presentation 7: Paper Session 29

NOVEL THERAPEUTIC TARGETS FOR CESSATION
Chair: Cassandra D. Gipson-Reichardt
Audience: PC, C

POD29-1: THE NICOTINIC RECEPTOR MODULATOR LYNX1 IN NICOTINE REINFORCEMENT
Yasmine Sherafat*, Malia Bautista, Valeria Lallai, Angeline Dukes, J.P. Fowler, Christie D. Fowler

POD29-2: A NOVEL METABOTROPIC GLUTAMATE RECEPTOR 2 POSITIVE ALLOSTERIC MODULATOR, SBP-1315, ATTENUATES NICOTINE TAKING AND NICOTINE SEEKING IN RATS
Xia Li, Benjamin McKenna, Nicholas Cosford, Gonul Velicelebi, Reto Gadient, Douglas Sheffler, John Hutchinson, Raveendra Dhanya, Robert M. Anthenelli*

POD29-3: GPR3 AS A NOVEL THERAPEUTIC TARGET FOR NICOTINE ADDICTION
Malia Bautista, Bruce Blough, Elaine Gay, Christie D. Fowler*

POD29-4: MONOACYLGLYCEROL LIPASE IS A POSSIBLE TARGET FOR NICOTINE DEPENDENCE: ANIMAL AND HUMAN GENETIC STUDIES
M. Imad Damaj*

POD29-5: ASSOCIATION OF CYP2A6 ACTIVITY AND NICOTINE REINFORCEMENT IN DAILY SMOKERS

1:30 p.m. - 3:00 p.m.
Transdisciplinary Stage
Podium Presentation 7: Symposium 22

E-CIGARETTE, OR VAPING, PRODUCT USE-ASSOCIATED LUNG INJURY (EVALI): PAST, PRESENT, AND FUTURE
Chair: Katrina Trivers
Audience: PH, PC, C, P

Audience Key: PC: Pre-Clinical; C: Clinical; PH: Public Health/Epidemiology; P: Policy; *: Conference Themed Session
SYM22A: CHARACTERISTICS OF A NATIONWIDE OUTBREAK OF E-CIGARETTE, OR VAPING, PRODUCT USE-ASSOCIATED LUNG INJURY (EVALI) – UNITED STATES, AUGUST 2019-FEBRUARY 2020
Christina Watson*, Teresa Wang, Dayna Alexander, Briana Oliver, Christopher Dunphy, Nisha Nataraj, Katrina Trivers, Ahmed Jamal

SYM22B: CHEMICAL ANALYSES OF AEROSOL EMISSIONS FROM EVALI CASE-ASSOCIATED E-CIGARETTE, OR VAPING, PRODUCTS
Clifford Watson*, Liza Valentin-Blasini, Naudia Gray, Andrew Puetz, Maria Morel-Espinosa, Elizabeth Cowan, Hang Tran, Megan McGuigan, Erica Lewis, Jose Perez, Nathalie Gonzalez-Jimenez, Carolina Fernandez, Steve Pappas, Ben Blount

SYM22C: OUTBREAK: CALIFORNIA’S EVALI MEDIA CAMPAIGN IMPACT ON YOUNG ADULTS
Rebecca Williams*, Julie Lautsch, David Stupplebeen, Laurel E. Curry, Kevin Davis, Brian Bradfield

SYM22D: AFTER THE E-CIGARETTE, OR VAPING, PRODUCT USE-ASSOCIATED LUNG INJURY (EVALI) OUTBREAK: NOW WHAT?
Katrina Trivers*, Christina Watson, Linda Neff, Christopher Jones, Karen Hacker

3:00 p.m. - 3:15 p.m.
Virtual Break

3:15 p.m. - 4:15 p.m.
Main Stage
Clinical Plenary Theme Lecture
Beyond Intervention Effectiveness: What We Need to Achieve Greater Public Health Impact
Session Chair: Michael Fiore, PhD
Presenter: Linda M. Collins, PhD

On-Demand Gallery
Podium Presentation 8: Paper Session 30

BANNING MENTHOL IN CIGARETTES
Chair: Joanne D'Silva
Audience: P, PH, *

POD30-1: CHANGES IN RETAIL SALES OF TOBACCO PRODUCTS IN ONTARIO AFTER A MENTHOL SALES RESTRICTION
Elizabeth Brown*, Doris Gammon, Todd Rogers, Ellen Coats, Lindsay Olson, Ashley Ross, Martha C. Engstrom, James Nonnemaker

POD30-2: HOW DO MENTHOL CIGARETTE SMOKERS CHOOSE THEIR CIGARETTES AFTER A MENTHOL BAN
Eric Soule*, Shannon Mayne, Jolene Dubray, William Snipes, Joanna Cohen, Robert Schwartz, Michael Chaiton
POD30-3: MARKET AREA TRENDS IN MENTHOL AND NON-MENTHOL CIGARETTE SALES IN THE UNITED STATES AND ASSOCIATIONS WITH REGIONAL RACIAL COMPOSITION
Daniel P. Giovenco*, Torra E. Spillane, Rachel M. Maggi, Amanda Y. Kong, Andrea C. Villanti, Cristine D. Delnevo

POD30-4: TRANSITIONS BETWEEN CIGARETTE, ENDS, AND DUAL USE DIFFER BY MENTHOL STATUS OF REGULAR CIGARETTE BRAND
Andrew F. Brouwer*, Jana L. Hirschtick, Jihyoun Jeon, Evelyn Jimenez-Mendoza, David Levy, Theodore R. Holford, Ritesh Mistry, Nancy L. Fleischer, Rafael Meza

POD30-5: THE RELATIONSHIP BETWEEN MENTHOL CIGARETTE USE, SMOKING CESSATION AND RELAPSE- FINDINGS FROM WAVES 1 TO 4 OF THE POPULATION ASSESSMENT OF TOBACCO AND HEALTH STUDY
Sarah D. Mills*, Yajing Hao, Kurt M. Ribisl, Christopher A. Wiesen, Kristen Hassmiller Lich

On-Demand Gallery
Podium Presentation 8: Paper Session 31

MORE THAN JUST WATER: HOOKAHS AND WATERPIPES

Chair: Vaughan W. Rees
Audience: PC, PH

POD31-1: DATABASE AND GC-MS ANALYSIS OF THE MOST PREVALENT FLAVORS OF WATERPIPE TOBACCO, HERBAL MOLASSES AND STEAM STONES ON THE DUTCH MARKET

POD31-2: WATERPIPE TOBACCO AND CIGARETTE CONSUMPTION DEMAND ELASTICITIES IN LEBANON, JORDAN AND WEST BANK, PALESTINE
Ali Chalak*, Rima Nakkash, Ruba Abla, Yousef Khader, Niveen Abu Rmeileh, Aya Mostafa, Mohammed Jawad, Ramzi Salloum

POD31-3: MARKERS OF OXIDATIVE STRESS AMONG YOUNG WATERPIPE SMOKERS IN THE UNITED STATES
Rime Jebai*, Mohammad Ebrahim Kalan, Mayra Vargas-Rivera, Olatokunbo Osibogun, Wei Li, Prem Gautam, Mu-Rong Chao, Chiung-Wen Hu, Zoran Bursac, Wasim Maziak

POD31-4: HEALTH WARNING LABELS ON WATERPIPES: PLACEMENT LOCATION AND HEALTH RISK PERCEPTIONS
Elizabeth G. Klein*, Mahmoud A. Alawan, Michael Pennell, David Angeles, Marielle Brinkman, Brittney Keller-Hamilton, Megan E. Roberts, Paul Nini, Amy K. Ferketic

Adriana Perez, Arnold E. Kuk*, Baojiang Chen, Meagan A. Bluestein, Melissa B. Harrell, Cheryl L. Perry

Audience Key: PC: Pre-Clinical; C: Clinical; PH: Public Health/Epidemiology; P: Policy; *: Conference Themed Session
On-Demand Gallery
Podium Presentation 8: Paper Session 32

THE ENDURING CHALLENGES OF POLY-SUBSTANCE USE FOR TOBACCO CESSATION

Chair: Johannes Thrul
Audience: C

POD32-1: CORRELATES OF DUAL USE OF CIGARETTES AND E-CIGARETTES AMONG INDIVIDUALS WITH SUBSTANCE USE DISORDER LATENT CLASS ANALYSIS USING LONGITUDINAL DATA
Juhan Lee*, Mildred Maldonado-Molina, Scott Alan Teitelbaum, Deborah Morrison, Lisa Greene Merlo

POD32-2: POWER TO QUIT 2 RESULTS FROM A SMOKING AND ALCOHOL CESSATION INTERVENTION IN THE HOMELESS POPULATION
Rebekah Pratt*, Anne Joseph, Xianghua Luo, Sue A. Everson-Rose, Ned Cooney, Shelia Specker, Janet Thomas, Kola Okuyemi

POD32-3: SMOKING CESSATION AMONG QUITLINE CALLERS WHO USE CANNABIS AND OR ALCOHOL RESULTS FROM THE NY QUITLINE 7-MONTH FOLLOWUP ASSESSMENT
Danielle Smith*, Cheryl Rivard, Ellen Carl, Renee Goodwin, Lindsey Bensch, Andrew Hyland, Maciej Goniewicz, Richard O'Connor, Binnian Wei, Brian Merritt, Andrew Szelig, Brian McDonough, Robin Secord, Alan Budney, Christine Sheffer

POD32-4: MARIJUANA CESSATION ATTEMPT IMPACT ON TOBACCO USE AND TOBACCO URGES IN CO-USERS OF MARIJUANA AND TOBACCO
Alison Levahn*, Ashley Petersen, Katherine Harrison, Sharon Allen

On-Demand Gallery
Podium Presentation 8: Paper Session 33

SMOKING, VAPING AND PLACE

Chair: Catherine Franciane Kimber
Audience: P, PH

POD33-1: BAR ATMOSPHERICS AND SMOKING: A QUALITATIVE ANALYSIS OF YOUNG ADULT SMOKERS
Julia Brillinger*, Louise Marsh, Janet Hoek

POD33-2: WHERE DO PEOPLE SMOKE CIGARETTES?
Jason A. Oliver*, Matthew M. Engelhard, Joshua D'Arcy, Cynthia A. Conklin, F Joseph McClennon

POD33-3: YOUTH TOBACCO AND MARIJUANA USE AND CO-USE: ASSOCIATIONS WITH DAILY EXPOSURE TO TOBACCO RETAIL MARKETING WITHIN ACTIVITY SPACES AND BY TRAVEL PATTERNS
Sharon Lipperman-Kreda*, Laura J. Finan, Sarah D. Kowitt, Kristina Wharton, Sabrina Islam
POD33-4: ASSESSING THE QUALITY OF GOOGLE STREET VIEW FOR DOCUMENTING TOBACCO ADVERTISING IN NEW YORK CITY
Torra E. Spillane*, Daniel P. Giovenco

POD33-5: THE ASSOCIATION BETWEEN STATEWIDE VAPING PREVALENCE AND COVID-19 INFECTIONS
Dongmei Li*, Daniel P. Croft, Deborah Ossip, Zidian Xie

On-Demand Gallery
Podium Presentation 8: Paper Session 34

DELIVERY VEHICLES: OTHER FACTORS AFFECTING DRUG USE
Chair: Melissa D. Blank
Audience: PC, PH, C

POD34-1: THE EFFECTS OF FREE BASE NICOTINE CONCENTRATION AND SALIVARY PH ON NICOTINE PHARMACOKINETICS OF SMOKELESS TOBACCO
Jess Alan Wilhelm, Lauren Viray, Denise Adams, Carson Smith, Wallace Pickworth*, Bartosz Koszowski, Antonio Paredes, Jaime Golwala, Elena Mishina

POD34-2: EFFECT OF FREEBASE AND PROTONATED NICOTINE ON ELECTRONIC CIGARETTE NICOTINE YIELD
Soha Talih*, Rola Salman, Rachel El-Hage, Nareg Karaoghlanian, Ahmad El-Hellani, Najat Saliba, Alan Shihadeh

POD34-3: ANALYSIS OF TOBACCO SPECIFIC CONSTITUENTS IN NOVEL TOBACCO FREE NICOTINE POUCHES
Aleksandra Alcheva*, Ivana Marchenko, Dorothy Hatsukami, Irina Stepanov

POD34-4: INTEGRATED TEST-PLATFORM FOR REAL-TIME ASSESSMENT OF THE ENDS EMISSIONS
Vladimir Mikheev*, Stephanie Buehler, Alexander Ivanov

POD34-5: EFFECTS OF FLAVORANTS AND HUMECTANTS ON WATERPIPE TOBACCO PUFFING BEHAVIOR, BIOMARKERS OF EXPOSURE, AND SUBJECTIVE EFFECTS AMONG ADULTS WITH HIGH VS. LOW NICOTINE DEPENDENCE
Brittney Keller-Hamilton*, Total Mehta, Jessica J. Hale, Eleanor Leavens, Alan Shihadeh, Thomas Eissenberg, Marielle C. Brinkman, Theodore L. Wagener

POD34-6: ASYMMETRICAL ELASTICITY OF DEMAND FOR SELF-ADMINISTERED NICOTINE AND ALCOHOL IN RATS
Matthew Palmatier*, Gerald A. Deehan, Jr.
On-Demand Gallery

Podium Presentation 8: Paper Session 35

INNOVATIVE APPROACHES TO OBTAIN BIOMARKERS OF DRUG USE

Chair: Maciej Lukasz Goniewicz
Audience: PC, C

POD35-1: DNA METHYLATION DIFFERENTIATES NON-COMBUSTIBLE TOBACCO USE AND VAPOING FROM SMOKING
Robert Alan Philibert*, Rachel Reimer, Natasha Hutchens, Shelly Miller, Ashley Becker, Allan Andersen

POD35-2: THE DEVELOPMENT OF LATERAL FLOW ASSAYS FOR BIOMARKERS TO DISTINGUISH VARIOUS NICOTINE DELIVERY PRODUCTS
Michael P. Nguyen*, Jonathan Gary, Jeffrey J. Bishop, Sacha Dopheide

POD35-3: FRACTIONAL EXHALED NITRIC OXIDE (FENO) OUTCOMES FROM A RANDOMIZED CLINICAL TRIAL EXAMINING REDUCED NICOTINE CONTENT CIGARETTES AMONG DAILY SMOKERS WITH PSYCHIATRIC CONDITIONS OR SOCIOECONOMIC DISADVANTAGE

POD35-4: DEVELOPMENT AND TRANSLATION OF GENOMIC ALGORITHMS FOR NICOTINE BIOMARKERS
Andrew W. Bergen*, Sungshim L. Park, Yesha M. Patel, Christopher S. Mcmahan, Hilary A. Tindle, Matthew S. Freiburg, Quinn S. Wells, James W. Baurley

POD35-5: DEFAULT MODE AND FRONTOPARIETAL SYSTEM SEGREGATION IS ASSOCIATED WITH SMOKING LAPSE

POD35-6: STABILITY OF INSULA-BASED RESTING-STATE FUNCTIONAL CONNECTIVITY AMONG DAILY SMOKERS AND THE IMPACT OF SMOKING-RELATED FACTORS
Robin N. Perry*, Jeremy Bartholomeusz, Sean P. Barrett

On-Demand Gallery

Podium Presentation 8: Paper Session 36

LAYING THE GROUNDWORK FOR EFFECTIVE YOUTH AND YOUNG ADULT VAPOING CESSATION INTERVENTIONS

Chair: Erika Westling
Audience: PH

POD36-1: YOUTH AND YOUNG ADULT E-CIGARETTE QUIT ATTEMPTS AND INTENTIONS TO QUIT
Alison F. Cuccia*, Minal Patel, Michael S. Amato, Daniel K. Stephens, Stephanie N. Yoon, Donna M. Vallone
POD36-2: NICOTINE DEPENDENCE SYMPTOMS AMONG ADOLESCENT CIGARETTE AND E-CIGARETTE USERS ACROSS FOUR WAVES OF THE POPULATION ASSESSMENT OF TOBACCO AND HEALTH (PATH) STUDY
Carol J. Boyd*, Rebecca J. Evans-Polce, Sean Esteban McCabe, Terri Voepel-Lewis, Philip T. Veliz

POD36-3: IS VAPING CESSION LIKE SMOKING CESSION? A QUALITATIVE STUDY EXPLORING THE RESPONSES OF YOUTH AND YOUNG ADULTS WHO VAPE
Sherald Sanchez*, Pamela Kaufman, Hayley Pelletier, Bruce Baskerville, Patrick Feng, Shawn O’Connor, Robert Schwartz, Michael Chaiton

POD36-4: CHARACTERISTICS OF YOUNG ADULTS ENROLLED IN A VAPING CESSION RANDOMIZED TRIAL
Sarah Cha*, George D. Papandonatos, Michael S. Amato, Megan A. Jacobs, Mia M. Bottcher, Amanda L. Graham

On-Demand Gallery
Podium Presentation 8: Paper Session 37
ADDRESSING TOBACCO CESSION INTEGRATION IN MEDICAL SETTINGS
Chair: Robert Schnoll
Audience: C, PH

POD37-1: DEVELOPMENT OF A PHARMACIST-LED OPT-OUT SMOKING CESSION TREATMENT PROTOCOL IN INPATIENT SETTINGS
Philip J. Trapskin, Ann Sheehy, Paul D. Creswell*, Danielle E. McCarthy, Amy Skora, Rob Adsit, Anne E. Rose, Candace Bishop, Jessica Bugg, Emily Iglar, Mark E. Zehner, Daniel K. Shirley, Brian S. Williams, Adam Hood, Krista McElray, Timothy B. Baker, Michael Fiore

POD37-2: MOVING FROM IN-PERSON TO VIRTUAL INPATIENT TOBACCO TREATMENT: EXPANDING REACH IN THE FACE OF COVID-19
Celeslie Valcourt*, Stephanie Wilhoit-Reeves, Eiman Newcomer, Adam Goldstein

POD37-3: FACTORS ASSOCIATED WITH DISPARITIES IN PROVIDER ADVICE AND ASSISTANCE AMONG LATINO AND NON-LATINO WHITE SMOKERS IN CALIFORNIA
Cindy Valencia*, Melanie S. Dove, Elisa K. Tong

POD37-4: A QUALITATIVE ANALYSIS OF NICOTINE REPLACEMENT THERAPY UPTAKE, ADHERENCE AND PERSISTENCE AMONG PRIMARY CARE PATIENTS WHO SMOKE
Grace Styklunas*, Elyse Park, Nancy A. Rigotti, Sydney Elizabeth Howard, Naysha Shahid, Jessica Haberer, Gina Kruse

POD37-5: BARRIERS TO IMPLEMENTING THE CLINICAL PRACTICE GUIDELINES FOR TREATING TOBACCO USE AND DEPENDENCE AMONG PARENTS OF PEDIATRIC EMERGENCY DEPARTMENT PATIENTS
Ashley L. Merianos*, Kayleigh A. Fiser, Judith Gordon, Michael S. Lyons, E. Melinda Mahabee-Gittens

Audience Key: PC: Pre-Clinical; C: Clinical; PH: Public Health/Epidemiology; P: Policy; *: Conference Themed Session
POD37-6: ANALYSIS OF CLINICIAN DOCUMENTATION OF PATIENT E-CIGARETTE UTILIZATION USING NATURAL LANGUAGE PROCESSING
Thulasee Jose*, David O. Warner

On-Demand Gallery
Podium Presentation 8: Paper Session 38

BREATHING IT IN: EFFECTS OF EXPOSURE ON THE RESPIRATORY TRACT
Chair: Irina Stepanov
Audience: PC, P

POD38-1: CHEMICAL ADDUCTS OF REACTIVE FLAVOR ALDEHYDES FORMED IN E-CIGARETTE LIQUIDS ARE CYTOTOXIC AND INHIBIT MITOCHONDRIAL FUNCTION IN RESPIRATORY EPITHELIAL CELLS
Sairam V. Jabba*, Alexandra N. Diaz, Sven-Eric Jordt

POD38-2: CYTOTOXIC EFFECTS OF E-CIGARETTE AEROSOLS CONTAINING NICOTINE SALTS ON PRIMARY HUMAN SMALL AIRWAY EPITHELIAL CELLS
Tariq A. Bhat*, Noel Leigh, Maciej L. Goniewicz, Yasmin Thanavala

POD38-3: EFFECT OF ELECTRONIC CIGARETTE LIQUID PH ON RETENTION OF 11C-NICOTINE IN A RESPIRATORY TRACT MODEL
Alexey G. Mukhin*, Jed E. Rose, Kiran Kumar Solingapuram Sai

POD38-4: MOUSE MODEL OF ACUTE EFFECTS OF INHALATION OF HEATED TOBACCO PRODUCT (IQOS) AEROSOLS ON LUNG TISSUE DAMAGE AND INFLAMMATORY CHANGES IN THE LUNGS
Yasmin Thanavala*, Tariq Bhat, Kalathil Suresh, Noel Leigh, Thivanka Muthumalage, Irfan Rahman, Maciej Goniewicz

POD38-5: EFFECT OF CIGARETTE SMOKING ON M1/M2 TYPES ALVEOLAR MACROPHAGE (AM) AND THE RESTORATION OF AM BY SMOKING CESSATION
Honami Nakata, Kent Pinkerton, Minoru Takeuchi*

On-Demand Gallery
Podium Presentation 8: Paper Session 39

LATE BREAKING: HEALTH EQUITY II
Chair: Christie D. Fowler; Angeline Dukes
Audience: *, PH, P

POD39-1: WHAT INFLUENCES DEMAND FOR CIGARS AMONG AFRICAN AMERICAN ADULT CIGAR SMOKERS? RESULTS FROM A HYPOTHETICAL PURCHASE TASK
Muloongo Simuzingili*, Cosima Hoetger, William Garner, Robin Everhart, Kristina Hood, Patrick Nana-Sinkam, Caroline O. Cobb, Andrew J. Barnes
POD39-2: CONCERN REGARDING POLICE BRUTALITY AND UNFAIR TREATMENT BY LAW ENFORCEMENT AND SUBSEQUENT TOBACCO AND MARIJUANA USE AMONG HISPANIC YOUTH  
Kiana J. Hacker*, Julia C. Chen-Sankey, Adam M. Leventhal, Kelvin Choi

Dina M. Jones*, Katherine E. Masyn, Claire Adams Spears

POD39-4: ASSOCIATIONS BETWEEN LIFETIME EXPERIENCES OF SEXUAL ORIENTATION DISCRIMINATION AND PAST-YEAR PATTERNS OF TOBACCO USE AMONG A SAMPLE OF SEXUAL MINORITY ADULTS IN THE UNITED STATES  
Delvon T. Mattingly*, Nancy L. Fleischer

POD39-5: PERSPECTIVES OF HIV CARE PROVIDERS ON SMOKING BEHAVIOR AMONG PLHIV SMOKING CESSATION SERVICES PROVIDED AND CESSATION INTEGRATION SUPPORT REQUIRED IN UGANDA  
Kellen Nyamurungi Namusisi*, Frances Thirlway, Noreen Mdege, Joseph Matovu

POD39-6: PHYSICAL PAIN, SOCIO-DEMOGRAPHICS, AND PSYCHOLOGICAL CHARACTERISTICS OF CURRENT, FORMER, AND NEVER SMOKERS IN WAVE 4 PATH PARTICIPANTS: A BAYESIAN NETWORK ANALYSIS  
Mahathi Vojjala*, Marcel de Dios, Helen Sanchez, Raymond Niaura

On-Demand Gallery  
Podium Presentation 8: Paper Session 40

LATE BREAKING: PUBLIC HEALTH

Chair: Jennifer Pearson  
Audience: PH

Mahathi Vojjala*, Kenneth Warner, Mick Couper, David Abrams, Raymond Niaura

POD40-2: ASSOCIATIONS BETWEEN NICOTINE KNOWLEDGE AND TOBACCO USE BEHAVIORS AMONG U.S. ADULT SMOKERS  
Morgan Snell*, Jennifer Tidey

POD40-3: SMOKING STATUS AND ICU LOS OF COVID-19 PATIENTS AT UF HEALTH  
Zuhair Mian Haleem*, Santanu Datta

POD40-4: THE IMPACT OF CIGARETTE PRICES AND MARIJUANA USE ON THE DEMAND FOR CIGARETTES AMONG U.S. YOUTH  
Tingting Yao*, Hai-Yen Sung, Lela Chu, Joanne Spetz, Janine Cataldo, Wendy Max

Audience Key: PC: Pre-Clinical; C: Clinical; PH: Public Health/Epidemiology; P: Policy; *: Conference Themed Session
On-Demand Gallery
Podium Presentation 8: Paper Session 41

LATE BREAKING: CLINICAL

Chair: Erin McClure
Audience: C

POD41-1: CESSATION LIKELIHOOD INCREASES WITH HIGHER EXPIRED-AIR CARBON MONOXIDE CUTOFFS: A META-ANALYSIS
Joshua L. Karelitz*, Erin A. McClure, Caitlin Wolford-Clevenger, Lauren R. Pacek, Karen L. Cropsey

POD41-2: EVALUATION OF AN "OPT OUT" MECHANISM TO REFER CANCER PATIENTS TO TOBACCO TREATMENT
Thulasee Jose*, Joshua W. Ohde, J. Taylor Hays, Michael V. Burke, David O. Warner

POD41-3: MULTICENTER RCT OF A WEB-BASED CESSATION PROGRAM PLUS ONLINE SOCIAL NETWORK FOR HIV+ SMOKERS
Cassandra Stanton*, Amanda Graham, Ryung Kim, Geetanjali Chander, Jonathan Shuter

POD41-4: MODERATELY MENTHOLATED CIGARETTES ARE NOT SMOKED MORE INTENSELY THAN NON-MENTHOLATED CIGARETTES: A RANDOMIZED CROSSOVER TRIAL
Megan Schroeder, Kia Jackson, Jaime Golwalla, Jess Wilhelm, Lauren Viray, Bartosz Koszowski, Wallace Pickworth*

POD41-5: TRIAL-LEVEL BIAS SCORE VERSUS MEAN BIAS SCORE: COMPARISON OF THE INTERNAL AND TEST-RETEST RELIABILITY USING DOT PROBE TASK AMONG DAILY SMOKERS
Min-Jeong Yang*, Allison Borges, Teresa M. Leyro

POD41-6: DEVELOPMENT AND VALIDATION OF NATURAL LANGUAGE PROCESSING MODELS FOR TECHNOLOGY-ASSISTED MOTIVATIONAL INTERVIEWING
John F. Layton*, Ahson Saiyed, Joannalyn Delacruz, Brian Borsari, Maksim Tsvetovat, Tatyana Kanzaveli, Yasmin Haddadi, Tiffany Jamison, Elaine Luu, Travis Truong, Jason M. Satterfield

4:30 p.m. - 6:30 p.m.
Main Stage
Trainee Network Roundtable Mixer Virtual Event
(Note: All presentation times are in Eastern Standard Time [EST].)

10:00 a.m.-11:30 a.m.
Health Disparities & Health Equity Stage
Live Q&A Session Podium 45

VOD – SYM 11: BIOMARKERS FOR TOBACCO DEPENDENCE AND TREATMENT: PROMISE AND PITFALLS
Audience: C

VOD – POD 35: INNOVATIVE APPROACHES TO OBTAIN BIOMARKERS OF DRUG USE
Audience: PC, C

VOD – SYM9: THE HEATED TOBACCO PRODUCT IQOS: A TRANSLATIONAL APPROACH TO EXAMINING USE AND RISKS FROM MARKETING TO ACUTE BEHAVIORAL AND PHYSIOLOGICAL EFFECTS
Audience: C, PH

10:00 a.m.-11:30 a.m.
Public Health Stage
Live Q&A Session Podium 46

VOD – POD13: ON THE BASIS OF SEX
Audience: PC, P

VOD – POD34: DELIVERY VEHICLES: OTHER FACTORS AFFECTING DRUG USE
Audience: PC, PH, C

VOD – POD38: BREATHING IT IN: EFFECTS OF EXPOSURE ON THE RESPIRATORY TRACT
Audience: C, PH

10:00 a.m.-11:30 a.m.
Clinical Stage
Live Q&A Session Podium 47

VOD – POD36: LAYING THE GROUNDWORK FOR EFFECTIVE YOUTH AND YOUNG ADULT VAPING CESSATION INTERVENTIONS
Audience: PH

VOD – POD32: THE ENDURING CHALLENGES OF POLY-SUBSTANCE USE FOR TOBACCO CESSATION
Audience: C
VOD – POD12: PROMOTING CESSATION AMONG THOSE WITH PSYCHIATRIC DISORDERS: UTILIZING CREATIVE SOLUTIONS
Audience: C, PH

10:00 a.m.-11:30 a.m.
Policy Stage
Live Q&A Session Podium 48
POD30: BANNING MENTHOL IN CIGARETTES
Audience: P, PH, *

SYM8: FACTORS RELATED TO TOBACCO USE AMONG SEXUAL MINORITY WOMEN: IMPLICATIONS FOR TOBACCO CONTROL MESSAGING
Audience: PH, *

POD31: MORE THAN JUST WATER: HOOKAHS AND WATERPIPES
Audience: PC, PH

10:00 a.m.-11:30 a.m.
Pre-Clinical Stage
Live Q&A Session Podium 49
POD33: SMOKING, VAPING AND PLACE
Audience: P, PH

SYM10: TOBACCO VENDOR DENSITY AND LICENSING: STRATEGIES AND LESSONS FROM INDIA, PAKISTAN, AND THE U.S.
Audience: P

POD14: ALTERNATIVES TO SWITCHING: BUILDING A FOUNDATION FOR ENDS CESSATION
Audience: C

10:00 a.m.-11:30 a.m.
Transdisciplinary Stage
Live Q&A Session Podium 50
POD37: ADDRESSING TOBACCO CESSATION INTEGRATION IN MEDICAL SETTINGS
Audience: C, PH

SYM12: HOSPITAL AND OUTPATIENT TOBACCO TREATMENT PROGRAMS IN THE UNITED STATES: MODELS AND ASSOCIATED HEALTH OUTCOMES
Audience: C

Audience Key: PC: Pre-Clinical; C: Clinical; PH: Public Health/Epidemiology; P: Policy; *: Conference Themed Session
Audience: PH

11:30 a.m. - 11:45 a.m.
Virtual Break

11:45 a.m. - 1:15 p.m.
Health Disparities & Health Equity Stage
Podium Presentation 10: Featured Poster Session 51

FEATURED HEALTH DISPARITIES & HEALTH EQUITY POSTERS WITH LIVE Q&A

Chair: Ollie Ganz
Audience: *

POD51-1: RURAL DISPARITIES IN LIFETIME SMOKING PREVALENCE ARE WIDENING OVER TIME
Sooyong Kim*, Arielle Selya

POD51-2: “THEY PROMOTE THEM EVERYWHERE IN THE NEIGHBORHOOD:” A QUALITATIVE INVESTIGATION OF THE COMMUNITY-LEVEL RISK FACTORS OF CIGAR SMOKING AMONG BLACK YOUNG ADULTS
Julia Cen Chen-Sankey*, Aaron Broun, Danielle Duarte, Ajith Aniruddh, Bambi Jewett, Erin L. Meade-Morse, Mignonnette C. Guy, Kelvin Choi

POD51-3: OBJECTIVE AND PERCEIVED MEASURES OF TOBACCO MARKETING ARE UNIQUELY ASSOCIATED WITH CIGAR USE
Sarah D. Kowitt*, Laura Finan, Sharon Lipperman-Kreda

POD51-4: RACIAL & ETHNIC TOBACCO DISPARITIES IN THE U.S. MILITARY
Margaret C. Fahey*, Kinsey Pebley, Xin-Qun Wang, Rebecca Krukowski, Kara P. Wiseman, Gerald W. Talcott, Robert C. Klesges, Melissa Ashley Little

POD51-5: EVOLUTION FROM JOE CAMEL: IMPACT OF TOBACCO MESSAGING AND COMMUNICATION ON TOBACCO USE ACROSS RACE, ETHNICITY, AND GENDER OVER TIME
Kinsey Pebley*, Margaret C. Fahey, Xin-Qun Wang, Christi Patten, Gerald W. Talcott, Robert C. Klesges, Melissa Ashley Little

POD51-7: COMMUNITY VULNERABILITY AND REAL-TIME CONTEXT OF TOBACCO MARKETING EXPOSURE —AN ECOLOGICAL MOMENTARY ASSESSMENT AMONG NON-TOBACCO-USING YOUNG ADULTS
Julia C. Chen-Sankey*, Judy van de Venne, Susan Westneat, Basmah Rahman, Shanell Folger, Andrew Anesetti-Rothermel, Charles Debnam, Kurt M. Ribisl, Amy Cohn, Shyanika W. Rose
POD51-8: EXAMINING RISKS AND PROTECTIVE FACTORS FOR CIGARETTE SMOKING AMONG TRANSGENDER AND GENDER EXPANSIVE INDIVIDUALS USING DIGITAL PHOTOVOICE  
Andy SL Tan*, Priscilla Gazarian, Elaine Hanby, Sabreen Darwish, Bethany Farnham, Jennifer Potter, Suha Ballout

POD51-9: THE ROLE OF SUBJECTIVE SOCIAL STATUS ON CIGARETTE CRAVING AFTER EXPOSURE TO POINT OF SALE TOBACCO MARKETING  
Mary E. Andrews*, Nicole Cooper, Bradley Mattan, Lisa Henriksen, Emily Falk

POD51-10: CORRELATION BETWEEN DISPARITIES IN TOBACCO RETAILER DENSITY AND DISPARITIES IN CIGARETTE SMOKING IN OHIO  
Allison M. Glasser*, Nathaniel Onnen, Peter F. Craigmile, Elli Schwartz, Amy K. Ferketich, Megan E. Roberts

11:45 a.m. - 1:15 p.m.  
Public Health Stage  
Podium Presentation 10: Featured Poster Session 52

FEATURED PUBLIC HEALTH POSTERS WITH LIVE Q&A  
Chair: Eric Leas  
Audience: PH

POD52-2: CRITICAL CHALLENGES IN QUANTIFYING VAPING BEHAVIOR: A QUALITATIVE STUDY OF YOUNG ADULTS IN SOUTHERN CALIFORNIA WHO VAPE  
Naosuke Yamaguchi*, Afton Kechter, Sara J. Schiff, Jessica L. Braymiller, Rachel C. Ceasar, Jessica L. Barrington-Trimis

POD52-3: WHAT KIND OF SMOKING IDENTITY FOLLOWING QUITTING WOULD ELEVATE SMOKERS RELAPSE RISK. FINDINGS FROM THE ITC AUSTRALIA AND UK SURVEYS  
Hua H. Yong*, Laura Callaghan, Ron Borland, Michael Cummings, Sara Hitchman, Geoffrey T. Fong

POD52-4: IMPACT OF SELF EFFICACY ON DAILY INTENTION NOT TO SMOKE  
Shirlene D. Wang*, Paddy Loftus, Raina Pang, Matt Kirkpatrick

POD52-5: SMOKING ATTITUDES AND BEHAVIORS FOLLOWING LUNG CANCER SCREENING ASSESSING SHORT TERM CHANGES AMONG PARTICIPANTS IN A TELEPHONE BASED CESSATION TRIAL PRIOR TO TOBACCO TREATMENT  
Randi Williams*, Felice Yang, Lisa Charles, Marisa Cordon, Ellie Eyestone, Laney Smith, George Luta, Kimberly Davis, Brady McKee, Shawn Regis, Cassandra Stanton, Vicky Parikh, Kathryn Taylor

POD52-6: EXPOSURE TO E-CIGARETTE ADVERTISING AND ITS ASSOCIATIONS WITH CURIOSITY AND SUSCEPTIBILITY TO E-CIGARETTE USE AMONG U.S. YOUTH IN 2019  
Kelvin Choi*, Julia Cen Chen-Sankey

Audience Key: PC: Pre-Clinical; C: Clinical; PH: Public Health/Epidemiology; P: Policy; *: Conference Themed Session
POD52-7: CHARACTERISTICS OF ADULT USERS OF HEATED TOBACCO PRODUCTS: FINDINGS FROM THE 2018 ITC FOUR COUNTRY SMOKING AND VAPING SURVEY
Connor R. Miller*, Edward Sutanto, Danielle Smith, Shannon Gravely, Sara Hitchman, Hua Yong, Richard O’Connor, Michael Cummings, Ron Borland, Geoffrey Fong, Andrew Hyland, Ann McNeill, Anne Quah, Maciej Goniewicz

POD52-9: ETHNIC DIFFERENCES IN THE TRAJECTORIES OF E-CIGARETTE MARKETING EXPOSURE, E-CIGARETTE USE, AND CIGARETTE SMOKING AMONG ASIAN/PACIFIC ISLANDER YOUNG ADULTS
Pallav Pokhrel*, Crissy Kawamoto, Thaddeus A. Herzog, Pebbles Fagan

POD52-10: SEXY, TRASHY, COOL: PERCEPTIONS OF CIGARETTE AND E-CIGARETTE ACROSS DEMOGRAPHIC GROUPS
Melissa Ashley Little*, Kinsey Pebley, Margaret C. Fahey, Kara P. Wiseman, Gerald W. Talcott, Robert C. Klesges, Rebecca Krukowski

11:45 a.m. - 1:15 p.m.
Clinical Stage
Podium Presentation 10: Featured Poster Session 53 WITH LIVE Q&A

FEATURED CLINICAL POSTERS

Chair: Tracy T. Smith
Audience: C

POD53-1: CHANGES IN DEPENDENCE, WITHDRAWAL, AND CRAVING AMONG ADULT SMOKERS WHO SWITCH TO NICOTINE SALT POD-BASED E-CIGARETTES
Eleanor L. S. Leavens*, Nikki Nollen, Jasjit Ahluwalia, Matthew Mayo, Myra Rice, Emma Brett, Kim Pulvers

POD53-2: EXPLORATORY EVALUATION OF ONLINE BRIEF EDUCATION FOR JUUL POD-MOD USE AND PREVENTION
Eleanor Leavens*, Matthew Carpenter, Tracy Smith, Nikki Nollen

POD53-3: COMPARING PROSPECTIVE PREDICTION OF CESSTATION OUTCOMES FROM FOUR COMMON MEASURES OF DEPENDENCE IN A LARGE CLINICAL TRIAL OF YOUNG, TREATMENT-SEEKING E-CIGARETTE USERS
Michael S. Amato*, George D. Papandonatos, Sarah Cha, Megan A. Jacobs, Mia M. Bottcher, Amanda L. Graham

POD53-4: UTILIZING AUGMENTED REALITY CUES TO ELICIT CRAVINGS TO SMOKE
Karen O. Brandon*, Christine Vinci, Marloes Kleinjan, Laura M. Hernandez, Leslie E. Sawyer, Steven K. Sutton, Thomas H. Brandon
POD53-6: AN 18-MONTH SMOKING CESSATION INTERVENTION INCORPORATING PHARMACOTHERAPY AND BEHAVIORAL COUNSELING DELIVERED IN COMMUNITY MENTAL HEALTH SETTINGS IMPROVES TOBACCO ABSTINENCE RATES IN ADULTS WITH SERIOUS MENTAL ILLNESS: RESULTS OF A RANDOMIZED CLINICAL TRIAL

POD53-8: INVESTIGATING THE IMPACT OF OPIOID AGONIST TREATMENT ON NICOTINE METABOLITE RATIO AMONG VULNERABLE SMOKERS
Rhiannon C. Wiley*, Stacey Sigmon, Michael J. DeSarno, Janice Y. Bunn, Roxanne F. Harfmann, Danielle R. Davis, Joanna M. Streck, Cecilia L. Bergeria, Maria A. Parker, Sarah H. Heil, Diann E. Gaalema, Jennifer Tidey, Dustin Lee, John R. Hughes, Catherine Markesich, Riley Nesheim-Case, Stephen T. Higgins

POD53-10: SMOKING DEPRIVATION CONDITION AND TRAIT ANXIETY INTERACT TO PREDICT VARIABILITY IN SMOKING TOPOGRAPHY DURING AN EXPERIMENTAL RELAPSE ANALOG TASK
Justin M. Shepherd*, Andrew H. Rogers, Vivian L. Carrillo, Matthew W. Gallagher, Erin C. Berenz, Stewart A. Shankman, Michael J. Zvolensky

11:45 a.m. - 1:15 p.m.
Pre-Clinical Stage
Podium Presentation 10: Featured Poster Session 54
FEATURED PRE-CLINICAL POSTERS WITH LIVE Q&A
Chair: Valeria Lallai; Yasmine Sherafat
Audience: PC

POD54-1: JUUL RELEASES NEW TECHNOLOGY PRODUCTS WITH A HIGHER EMISSIONS PROFILE
Ebrahim Karam*, Rola Salman, Soha Talih, Rachel El-Hage, Nareg Karaoghlanian, Alan Shihadeh

POD54-2: DEVELOPMENT OF A NICOTINE AEROSOL SELF-ADMINISTRATION MODEL IN RATS AND THE EFFECTS OF E-LIQUID FLAVORS
Julie A. Marusich*, Matthew Palmatier

POD54-3: NICOTINE VAPOR SELF ADMINISTRATION IN MICE
Yen-Chu Chen*, Valeria Lallai, JP Fowler, Christie Fowler

POD54-4: CHEMICAL CHARACTERISTICS OF TOBACCO-FREE NICOTINE POUCHES
Jess A. Wilhelm, Carson Smith, Wallace Pickworth*

POD54-5: EVALUATION OF ARSENIC AND CADMIUM IN LITTLE CIGAR, CIGARILLO AND LARGE CIGAR FILLERS

Audience Key: PC: Pre-Clinical; C: Clinical; PH: Public Health/Epidemiology; P: Policy; *: Conference Themed Session
POD54-6: TOBACCO VARIETAL AND CURING INFLUENCES ON FREE RADICAL PRODUCTION  

POD54-7: NICOTINE AND ALCOHOL CO-ABUSE: DIFFERENTIAL EFFECTS OF NICOTINE AND ALCOHOL ON NEUROIMMUNE FUNCTION  
Patrick A. Randall*, Christie A. Randall

POD54-8: DOSE AND EFFECT OF E-CIGARETTE VAPE IN AN AIRWAY IN VITRO MODEL  
Yvonne CM Staal*, Eric Gremmer, Evert Duistermaat, Daan Lensen, Wouter Visser, Reinskje Talhout

POD54-9: EFFECTS OF ADOLESCENT NICOTINE EXPOSURE ON THE SPONTANEOUS ACQUISITION OF NICOTINE SELF-ADMINISTRATION DURING ADULTHOOD IN RATS  
Ranjith Kumar Chellian*, Ryann Wilson, Azin Behnood-Rod, Adriaan Bruijnzeel

POD54-10: SELF-ADMINISTRATION BY RATS OF LOW DOSE NICOTINE ALONE VS. NICOTINE IN TOBACCO SMOKE EXTRACT  
Edward D. Levin*, Corinne Wells, Caroline Pace, Andrew Hawkey, Zade Holloway, Amir H. Rezvani, Jed Rose

11:45 a.m. - 1:15 p.m.  
Policy Stage  
Podium Presentation 10: Featured Poster Session 55

FEATURED POLICY POSTERS WITH LIVE Q&A

Chair: Olivia A. Wackowski  
Audience: P

POD55-1: PACK CHARACTERISTICS OF TOP-SELLING CIGARILLOS IN THE UNITED STATES: DIFFERENCES BETWEEN BLUNT AND NON-BLUNT PRODUCTS  
Daniel P. Giovenco*, Torra E. Spillane, Eugene Talbot, Jane Lewis, Olivia A. Wackowski, Cristine D. Delnevo

POD55-2: TOBACCO MARKETING EXPOSURE AND RISK FOR FUTURE TOBACCO USE AMONG YOUNG ADULT NON-TOBACCO USERS  
Shyanika W. Rose*, Susan Westneat, Judy Van de Venne, Basmah Rahman, Shanell Folger, Andrew Anesetti-Rothermel, Charles Debnam, Kurt Ribisl, Amy Cohn

POD55-3: ASSESSMENT OF THE TOBACCO RETAIL ENVIRONMENT BEFORE IMPLEMENTATION OF A VENDOR LICENSING POLICY IN DAKAR, SENEGAL (JUNE 2019)  
Simone Fukuda*, Mamadou Bamba Sagna, Karoline Walter, Oumar Ndao, Bintou Camara Bityeki, Alexandra Beem, Maria Carmona, Mary Clare Rosemeyer, Ernesto M. Sebrie

POD55-4: MENTHOL SMOKERS WHO IDENTIFY PHARMCOLOGICAL REASONS FOR USING MENTHOL MORE LIKELY TO QUIT AND USE CONTRABAND AFTER A MENTHOL BAN  
Michael Chaiton*, Thomas Eissenberg, Rebecca Plouffe, Robert Schwartz, Joanna Cohen, Eric Soule

POD55-5: CHANGES IN SECONDHAND SMOKE EXPOSURE AT HOME AMONG CHILDREN: FINDINGS FROM THE GLOBAL ADULT TOBACCO SURVEY  
Angela Tripp*, Lazarous Mbulo, April Summers, Krishna Palipudi
POD55-6: A QUALITATIVE ASSESSMENT OF ADMINISTRATOR AND RESIDENT PERCEPTIONS OF HUD’S SMOKEFREE RULE IN THE D.C. HOUSING AUTHORITY - ONE YEAR POST-IMPLEMENTATION
Sallie B. Johnson*, Kimberly Horn, Sofia RG Patino, Kevin A. Krost, Tiffany Gray, Craig T. Dearfield, Debra Bernat

POD55-7: “I THINK THAT THAT’S WHY THESE ATTRACT YOUNG PEOPLE MORE, BECAUSE OF THE FLAVORS AND THE COLORS”: PERCEPTIONS OF CIGARETTE PACKS AMONG MEXICAN CITY YOUTH
Graziele Grilo*, Joanna Cohen, Meghan Moran, Luz Myriam Reynales, Katherine Smith

POD55-8: DESCRIBING A VIRTUAL CONVENIENCE STORE ENVIRONMENT USABILITY AND TOBACCO-RELATED IMPACTS
Ashley Sanders-Jackson*, Allison Eden, William Shadel, James Thrasher

POD55-9: COMPLIANCE OF A TOBACCO-FREE POLICY AT AN ACADEMIC HEALTH INSTITUTION WITH NRT AS A GOODWILL OFFERING
Sonia Alysse Clark*, Ginny Chadwick, Kevin Everett

POD55-10: THE IMPACT OF TOBACCO RETAIL LICENSING IN VIRGINIA A SYSTEM DYNAMICS SIMULATION STUDY
Xiaolu Cheng*, Shuo-yu Lin, Jun Zhang, John R. Koch, Andrew Barnes, Lawrence Cheskin, Hong Xue

11:45 a.m. - 1:15 p.m.
Transdisciplinary Stage
Podium Presentation 10: Featured Poster Session 56

FEATURED RAPIDS POSTER SESSION 1 WITH LIVE Q&A
Chair: Jamie Brown
Audience: PH, PC, C, P, *

POD56-1: INTENTIONS AND FUTURE PLANS TO STOP VAPING AMONG E-CIGARETTE USERS IN THE U.S. AND THE U.K.
Nathalia Munck Machado*, Keith Feldman, Ligia M. Amaral, Kimber P. Richter

POD56-2: INDIVIDUAL- AND STATE-LEVEL TOBACCO REGULATORY FACTORS INFLUENCE U.S. REGIONAL DIFFERENCES IN SMOKING CESSATION IN THE EAGLES TRIAL
Belinda Daniel*, David E. Lawrence, Benjamin S. McKenna, Phillip Saccone, Thomas McRae, A. Eden Evins, Alok Krishen, Robert Anthenelli

POD56-3: HEALTHY PEOPLE 2030 COUNTDOWN: HOW TO ACHIEVE THE 5% SMOKING PREVALENCE TARGET AMONG THE U.S. POPULATION THROUGH STATE CIGARETTE TAX INCREASES
Nigar Nargis*

POD56-4: OFFERING SMOKING REDUCTION TREATMENT IN VA PRIMARY CARE: A CLINICAL DEMONSTRATION PROJECT
Jesse T. Kaye*, Megan E. Schultz, Jessica Cook

Audience Key: PC: Pre-Clinical; C: Clinical; PH: Public Health/Epidemiology; P: Policy; *: Conference Themed Session
POD56-5: ASSOCIATIONS OF TOBACCO CIGARETTE USE AND DEPENDENCE WITH SUBSTANCE USE DISORDER TREATMENT OUTCOMES BY SEX/GENDER AND RACE/ETHNICITY
Jung-Yun Min*, Andrea H. Weinberger

POD56-6: TELEHEALTH OVERCOMES TREATMENT BARRIERS IN A TOBACCO TREATMENT PROGRAM
Jillian Dirkes*, Leah Thomas, James Davis

POD56-7: CANNABIS AND TOBACCO USE AMONG PATIENTS IN PRIMARY CARE CLINICS IN A LARGE, URBAN HEALTHCARE SYSTEM IN CALIFORNIA
Marjan Javanbakht*, Sae Takada, Whitney Akabike, Lillian Gelberg, Steven Shoptaw

1:15 p.m. - 1:45 p.m.
Virtual Break

1:45 p.m. - 3:15 p.m.
Health Disparities & Health Equity Stage
Podium Presentation 11: Live Q&A Rapids Sessions: Podium 57 (POD 57)

LIVE RAPIDS Q&A SESSION 1
Audience: P, PH, C, *

POD15: LATE BREAKING: HEALTH EQUITY I
Audience: P, PH, C, *

POD39: LATE BREAKING: HEALTH EQUITY II
Audience: P, PH, *

POD16: INTERSECTION OF MENTAL HEALTH AND DRUG USE
Audience: P, C, PH

1:45 p.m. - 3:15 p.m.
Public Health Stage
Podium Presentation 11: Live Q&A Rapids Sessions: Podium 58 (POD 58)

LIVE RAPIDS Q&A SESSION 2

POD40: LATE BREAKING: PUBLIC HEALTH RAPIDS
Audience: PH

POD17: LATE BREAKING: MARKETING
Audience: C
1:45 p.m. - 3:15 p.m.
Clinical Stage
Podium Presentation 11: Live Q&A Rapids Sessions: Podium 59 (POD 59)

LIVE RAPIDS Q&A SESSION 3
Audience: PC, C

POD18: LATE BREAKING: PRE-CLINICAL
Audience: PC

POD41: LATE BREAKING: CLINICAL
Audience: C

3:15 p.m.
Virtual Meeting Concludes

Thank you again for attending the #SRNT2021 Entirely Virtual Meeting. We hope you enjoyed your virtual conference experience with us this year!
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