SRNT
26TH ANNUAL MEETING
NEW ORLEANS
MARCH 11-14, 2020

PROGRAM
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MESSAGE FROM THE PROGRAM CHAIR

Dear Colleagues,

On behalf of the SRNT Program Committee, we welcome you to the 26th Annual Meeting of the Society for Research on Nicotine and Tobacco (SRNT) in New Orleans!

This year, the overarching program theme focuses on “Reducing Tobacco Use in Young People.” This theme has guided our selection of plenary sessions and we have aimed to include content in the program from basic science, epidemiological surveys, clinical studies, and policy to better understand, prevent, and treat tobacco use in youth and young adults. As always, the annual meeting offers you cutting-edge scientific presentations across the full spectrum of basic and applied research on nicotine and tobacco. There will be presentations on pivotal clinical trials, new nicotine products, effective mobile strategies for treatment and engagement, insights from basic science on the effects of nicotine, plus hot topics in the areas of nicotine reduction, 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, March 11, 2020**
5:30 p.m.-6:45 p.m.
**President’s Symposium on Adolescent Tobacco Use Cessation**
Chair: Suzanne M. Colby, PhD, Professor of Psychiatry and Human Behavior and Postdoctoral Training Director Center for Alcohol & Addiction Studies, Brown University School of Public Health, Providence, RI

**Overview:** This symposium focuses on the persistent and evolving challenge of effectively addressing adolescent tobacco-use cessation. Presentations will consider youth tobacco use in all its forms, including multiple tobacco product use. **Dr. Jamal** will draw on both U.S. and international data from multiple sources to describe the current nature of youth tobacco use, dependence, motivation to quit, and actual quit attempts, all of which have relevance for determining potential need and demand for treatment. **Dr. Krishnan-Sarin** will summarize key findings from prior youth tobacco cessation research, and will review what is known about e-cigarette appeal in youth, and then will consider how this knowledge can inform intervention development. **Dr. Mermelstein** will discuss the dual developmental contexts (i.e., adolescence as a life stage and initiation and progression as stages of the tobacco use continuum) that are essential considerations for youth tobacco cessation treatment development and implementation. **Dr. Colby** will moderate Q&A with the panel following the presentations.

**Thursday, March 12, 2020**
8:30 a.m.-9:30 a.m.
**Basic Science Keynote Plenary**
**Mechanisms of Addiction in Adolescence**
Mary Heitzeg, PhD
Associate Professor, Addiction Center, Department of Psychiatry
University of Michigan, Ann Arbor, MI
Thursday, March 12, 2020
1:30 p.m.-2:30 p.m.
Public Health Keynote Plenary and Recipient of the 2020 Doll-Wynder Award
How Can Tobacco or Nicotine Harm-Reducing Products Contribute to Eradicating the Global Scourge Caused by Tobacco?
Ann McNeill, PhD
Professor of Tobacco Addiction
Institute of Psychiatry, Psychology & Neuroscience (IoPPN), King’s College London & Vice Dean (Culture, Diversity & Inclusion), IoPPN, London, UK

Friday, March 13, 2020
10:30 a.m.-11:30 a.m.
Clinical Keynote Plenary
Smoking Cessation: The Challenge of Implementation
Paul Aveyard, PhD
Professor of Behavioural Medicine, Nuffield Department of Primary Care Health Sciences
University of Oxford, Oxford, UK

Friday, March 13, 2020
1:00 p.m.-1:30 p.m.
Jarvik-Russell New Investigator Keynote Plenary and Recipient of the 2020 Jarvik-Russell Award
Science to Inform Tobacco Product Regulation
Tracy Smith, PhD
Assistant Professor, Addiction Sciences Division, Department of Psychiatry and Behavioral Sciences
Medical University of South Carolina, Research Member, Cancer Control and Prevention, Hollings Cancer Center, Charleston, SC

Friday, March 13, 2020
1:30 p.m.-2:45 p.m.
Policy Keynote Plenary
Surgeon General’s Report on Smoking Cessation
VADM Jerome M. Adams, MD, MPH
Surgeon General of the United States Department of Health and Human Services
HHS Office of the Secretary, Vice Admiral in the U.S. Public Health Service Commissioned Corps, Washington, DC

Also, not to be missed:

• The Opening Welcome Reception on Wednesday, March 11, from 6:45 p.m.-8:00 p.m., which will include a cash bar, and hors d’oeuvres. All attendees are welcome!

• The Awards Ceremony on Thursday, March 12, 1:00 p.m.-2:30 p.m., with special recognition of Doll-Wynder Award Winner, Dr. Ann McNeill; John Slade Award Winner, Dr. Ron Borland; and Jarvik Russell Award Winner, Dr. Tracy Smith.
• The SRNT 2025 Town Hall Meeting on Thursday, March 12, 6:00 p.m.-7:00 p.m.

• The SRNT Members Meeting on Friday, March 13, 7:30 a.m.-8:15 a.m.

For meeting attendees arriving early, there are nine half-day, pre-conference workshops that will be held on Wednesday, March 11 (available at an additional fee). These include:

• Pre-Conference Workshop 1: mHealth Interventions for Tobacco Cessation: Engaging Diverse Users and Innovative Technologies (Sponsoring Organization: SRNT Treatment Network)

• Pre-Conference Workshop 2: Advancing the Science of Youth Cessation: Treatment Strategies and Research Needs (Sponsoring Organization: Adolescent Network)

• Pre-Conference Workshop 3: Applying Intersectionality to Achieve Health Equity for Marginalized Groups: Challenges and Opportunities for Tobacco Control Research and Practice (Sponsoring Organization: Health Disparities Network)


• Pre-Conference Workshop 5: Succeeding as Women in Nicotine and Tobacco Research

• Pre-Conference Workshop 6: Introduction to Time-Varying Mediation Analysis with Application to Smoking Cessation Research

• Pre-Conference Workshop 7: Spatial Analysis of Tobacco Retailers: Implications for Regulation and Reducing Disparities (Sponsoring Organizations: Policy Research and Health Disparities Networks)

• Pre-Conference Workshop 8: Polygenic Risk Scores for Tobacco Dependence and Treatment: Promises and Pitfalls (Sponsoring Organization: Genetics and Omics Network)

• Pre-Conference Workshop 9: Research Methodologies in the Context of Global Tobacco Research: Challenges and the Importance of Harmonization (Sponsoring Organization: Global Research Network)
To follow, and as part of the general registration, please join us prior to the opening plenary session for a special session on Wednesday afternoon from 3:30 p.m.-5:15 p.m.

**An Update on FDA Tobacco Regulatory Programs and Priorities**

**Session Chair:** Matthew R. Holman, PhD, Director, Office of Science, FDA Center for Tobacco Products

**Presenters:** Tesfa Alexander, PhD, Director, Division of Research and Evaluation, Office of Health Communications and Education, FDA Center for Tobacco Products; Matthew R. Holman, PhD, Director, Office of Science, FDA Center for Tobacco Products

SRNT received more than 1,000 abstract submissions for the last four years in a row. Over the past year, we have worked to create a timely and high-quality scientific program spanning the full breadth of the nicotine and tobacco research field.

We encourage you to attend sessions that offer insights beyond your expertise, to engage with your colleagues and seek out new connections, and importantly, we hope that you enjoy the meeting and the exciting city of New Orleans!

Kind Regards,

**Andrea Villanti, PhD, MPH**

*Program Chair*

Jamie Brown, PhD,
Erin McClure, PhD,
and
Gideon St.Helen, PhD

*Program Co-Chairs*
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<thead>
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<th>Name</th>
<th>Institution, Location</th>
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<td>Dana Carroll, PhD, MPH</td>
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<td>Caroline O. Cobb, PhD</td>
<td>Virginia Commonwealth University</td>
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<td>Ryan Courtney, PhD</td>
<td>National Drug and Alcohol Research Centre, University of New South Wales</td>
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<td>Sharon Cox, PhD</td>
<td>London South Bank University</td>
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<td>Medical University of South Carolina</td>
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<td>Samantha Farris, PhD</td>
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<td>Nancy Fleischer, PhD, MPH</td>
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<td>Schroeder Institute, Truth Initiative</td>
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<td>Paul Harrell, PhD</td>
<td>Eastern Virginia Medical School</td>
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<td>Jamie Hartmann-Boyce, MA, DPhil</td>
<td>Nuffield Dept. of Primary Care Health Sciences, University of Oxford</td>
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<td>Oklahoma Tobacco Research Center, University of Oklahoma Health Sciences Center</td>
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<td>Brandon J. Henderson, PhD</td>
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<td>Amanda Quisenberry, PhD, Roswell Park Comprehensive Cancer Center</td>
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<td>Sven-Eric Jordt, PhD, Duke University</td>
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<td><strong>Genetics</strong></td>
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Rahul Srinivasan, PhD, MBBS
Ann St. Claire, MPH
Jeffrey S. Stein, PhD
Irina Stepanov, PhD
Elise Stevens, PhD
Joanna Streck, BA
Justin Strickland, PhD
Shannon Sullivan Cigan, PhD, MPH, MS
Steve Sussman, PhD
Rachel Sutherland, PhD
Maggie M. Sweitzer, PhD
Alayna Tackett, PhD
Mariliis Tael-Øeren, MScHS
Reeta Talka, PhD
Saki Talukder, MPH, BSc
Ricardo M Tamayo, PhD
Andy Tan, PhD, MPH, MBA, MBBS
Marcia M. Tan, PhD
Gemma Taylor, PhD
Kristie Taylor, PhD
Frances Thirlway, PhD
David Thomas, PhD
Dennis Thomas, PhD
Johannes Thrul, PhD
SRNT would like to thank the Program Committee members and abstract reviewers for the effort and expertise they contributed to the 2020 SRNT Annual Meeting.
### PAST PRESIDENTS AND PROGRAM CHAIR(S)

<table>
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<tr>
<th>Year</th>
<th>President</th>
<th>Program Chair(s)</th>
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<tr>
<td>1995</td>
<td>Ovide Pomerleau, PhD</td>
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<td>John Hughes, PhD</td>
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<td>Joy Schmitz, PhD, Chair</td>
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<td>Dorothy Hatsukami, PhD</td>
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<td>William Corrigall, PhD</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>
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<td>David Drobes, PhD, Co-Chair</td>
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<td>Ken Warner, PhD</td>
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<td>David Balfour, PhD</td>
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<td>2006-2007</td>
<td>Ellen R. Gritz, PhD</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>Marcus Munafò, PhD, MSc, Chair</td>
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<td>Sue Curry, PhD</td>
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<td>Darlene Brunzell, PhD, Co-Chair</td>
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<td>Megan Piper, PhD, Co-Chair</td>
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<td>Joanna Cohen, PhD, Co-Chair</td>
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<td>2012-2013</td>
<td>Gary Swan, PhD</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</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>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>
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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 Mayne, PhD, MPH, Chair</td>
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<td>Gideon St.Helen, PhD, Co-Chair</td>
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Conference registration, open daily, will be located in the area known as “SRNT CENTRAL” on the first floor registration counters of the Hilton New Orleans Riverside Hotel meeting space during the Annual Meeting. The SRNT registration desk will be open during the following times:

Tuesday, March 10 ................................................................................................... 4:30 p.m.-6:30 p.m.
Wednesday, March 11 ................................................................................................ 7:15 a.m.-7:00 p.m.
Thursday, March 12 .................................................................................................. 7:15 a.m.-5:00 p.m.
Friday, March 13 ....................................................................................................... 7:15 a.m.-5:00 p.m.
Saturday, March 14 ................................................................................................ 8:00 a.m.-12:15 p.m.

EDUCATIONAL OBJECTIVES

• 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 26th 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.
Physicians

In support of improving patient care, this activity has been planned and implemented by Amedco LLC and The Society for Research on Nicotine and Tobacco. Amedco LLC is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Credit Designation Statement – Amedco LLC designates this live activity for a maximum of 19.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Psychologists

This course is co-sponsored by Amedco and The Society for Research on Nicotine and Tobacco. Amedco is approved by the American Psychological Association to sponsor continuing education for psychologists. Amedco maintains responsibility for this program and its content. 19.75 hours.

The following state boards accept courses from APA providers for Counselors: AK, AL, AR, AZ, CA, CO, CT, DC, DE, FL, GA, HI, IA, ID, IL, IN, KS, KY, MD, ME, MO, NC, ND, NH, NE, NJ, NM, NV, OK, OR, PA, RI, SC, SD, TN, TX, UT, VA, WI, WY

MI: No CE requirements

The following state boards accept courses from APA providers for MFTs: AK, AR, AZ, CA, CO, CT, DE, FL, GA, IA, ID, IN, KS, MD, ME, MO, NE, NC, NH, NJ, NM, NV, OK, OR, PA, RI, SC, SD, TN, TX, UT, VA, WA, WI, WY

The following state boards accept courses from APA providers for Addictions Professionals: AK, AR, CO, CT, DC, DE, GA, IA, IN, KS, LA, MD, MO, MT, NC, ND, NE, NJ, NM, NY (outstate held), OK, OR, SC, UT, WA, WI, WY

MA / MFTs: Participants can self-submit courses not approved by the MAMFT board for review.

The following state boards accept courses from APA providers for Social Workers: AK, AR, AZ, CA, CO, DE, FL, GA, ID, IN, KY, ME, MN, MO, NE, NH, NM, OR, PA, VT, WI, WY
Boxed lunches will be served on Thursday and Friday (see below). Bring your badge with you, as it will serve as your ticket for lunch.

**Thursday, March 12, 2020**
Boxed lunches will be distributed in the CHURCHILL meeting space (Second Floor) starting at 11:15 a.m. Plan to attend Poster Session 1 (Churchill) while eating your boxed lunch!

**Friday, March 13, 2020**
Boxed lunches will be distributed in the CHURCHILL meeting space (Second Floor) starting at 11:15 a.m. Plan to attend Poster Session 3 (Churchill) while eating your boxed lunch!
Poster sessions have specific times designated for the authors to be present to discuss their posters with attendees in CHURCHILL (Second Floor) of the Hilton New Orleans Riverside Hotel. Have your SRNT badge to gain access to this area. An attendant will be checking badges at all times. (Refer to the SRNT area maps for exact location.) All posters must be removed immediately during the designated dismantle time for each session outlined below.

The schedule for poster presentation assembly, authors present, and dismantle is as follows:

**Thursday, March 12**

*Poster Session 1*

10:00 a.m.-11:00 a.m. ................................................................. Presenters set up posters
11:30 a.m.-1:00 p.m. ................................. Poster Session 1 *(Presenters available at their poster)*
1:00 p.m.-1:30 p.m. ................................................................. Presenters remove their poster

*Poster Session 2*

2:30 p.m.-3:30 p.m. ................................................................. Presenters set up posters
4:30 p.m.-6:00 p.m. ................................. Poster Session 2 *(Presenters available at their poster)*
6:00 p.m.-6:30 p.m. ................................................................. Presenters remove their poster

**Friday, March 13**

*Poster Session 3*

10:00 a.m.-11:00 a.m. ................................................................. Presenters set up posters
11:30 a.m.-1:00 p.m. ................................. Poster Session 3 *(Presenters available at their poster)*
1:00 p.m.-1:30 p.m. ................................................................. Presenters remove their poster

*Poster Session 4*

2:30 p.m.-3:30 p.m. ................................................................. Presenters set up posters
4:30 p.m.-6:00 p.m. ................................. Poster Session 4 *(Presenters available at their poster)*
6:00 p.m.-6:30 p.m. ................................................................. Presenters remove their poster

**Saturday, March 14**

*Poster Session 5*

10:00 a.m.-11:00 a.m. ................................................................. Presenters set up posters
12:00 noon-1:30 p.m. ................................. Poster Session 5 *(Presenters available at their poster)*
1:30 p.m.-2:00 p.m. ................................................................. Presenters remove their poster
BADGES

Your badge will admit you to all the educational sessions, welcome reception, and poster sessions at the Annual Meeting. *Please wear your badge at all times. Thank you.*

SPEAKER READY ROOM

**Important Information for all Oral Presentations:**

The Speaker Ready Room is located in the **Burgundy Room** meeting room (First Floor). Each speaker using computerized audio-visual equipment for their presentation at the 2020 Annual Meeting must report to the Speaker Ready Room to load their presentation on the laptop computer that will be used in their session room. Please review the following schedule and note these important times to stop by at least 12-24 hours prior to your scheduled session.

A technician from our audio-visual company will be available in the Speaker Ready Room to assist you. The Speaker Ready Room will be open at the following times:

- **Tuesday, March 10** ................................................................. 4:30 p.m.-6:30 p.m.
- **Wednesday, March 11** ....................................................... 12:00 noon-7:00 p.m.*
- **Thursday, March 12** ............................................................. 7:00 a.m.-5:00 p.m.
- **Friday, March 13** ................................................................. 7:30 a.m.-5:00 p.m.
- **Saturday, March 14** ............................................................. 7:30 a.m.-11:00 a.m.

*All Pre-Conference workshop speakers on Wednesday, March 11, should report directly to their meeting room. An audio-visual tech will be available to assist upon your arrival. Please report at least 20-30 minutes prior to the session start time.

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<td>Friday, March 13 between 8:00 a.m.-12:00 noon</td>
<td>Report to the Speaker Ready Room no later than 3:00 p.m. on Thursday, March 12</td>
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<td>Friday, March 13 between 1:00 p.m.-5:00 p.m.</td>
<td>Report to the Speaker Ready Room no later than 10:30 a.m. on Friday, March 13</td>
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<td>Friday, March 14 between 8:00 a.m.-12:00 noon</td>
<td>Report to the Speaker Ready Room no later than 3:00 p.m. on Friday, March 13</td>
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SRNT 2025 TOWN HALL MEETING

The SRNT will hold its SRNT 2025 Town Hall Meeting on Thursday, March 12, from 6:00 p.m.-7:00 p.m. in the Salon 3-6 (First Floor). All SRNT members are encouraged to attend (SRNT members only meeting).

MEMBERS MEETINGS

The SRNT will hold its Members Meeting on Friday, March 13, from 7:30 a.m.-8:15 a.m. in the Salon 3-6 (First Floor). All SRNT members are encouraged to attend (SRNT members only meeting).

2019-2020 SRNT BOARD OF DIRECTORS

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Mira B. Aghi, PhD

Executive Director, Ex Officio Board Member  
Bruce Wheeler

Journal Editor-in-Chief  
Marcus Munafò, PhD

Dean, SRNT University  
Natalie Walker, PhD
FUTURE SRNT MEETINGS

SRNT 27th Annual Meeting  
February 24-27, 2021  
Hilton Baltimore, Baltimore, Maryland

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 2020 AWARDS ARE NAMED

SRNT’s annual awards presentation will be Thursday, March 12, from 1:00 p.m.-1:30 p.m. in the Grand Ballroom B (First Floor). The awards are named after pioneers in the field of nicotine and tobacco research and we are pleased to remember those pioneers.

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  
Professor of Psychology – Health Behaviour  
Deputy Director  
Melbourne Centre for Behaviour Change  
Melbourne School of Psychological Sciences  
The University of Melbourne  
Victoria, Australia

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).

**2020 NEW INVESTIGATOR BEST ABSTRACT AWARD RECIPIENTS**

**Abhishek Jadhav**  
Research Assistant  
Duke University  
Durham, North Carolina, USA  
*IMPROVING A DEEP LEARNING MODEL TO PREDICT SMOKING RISK FROM IMAGES OF PERSONAL ENVIRONMENTS*

**Roxanne Harfmann, BA**  
Predoctoral Trainee  
Vermont Center on Behavior and Health  
University of Vermont, Burlington, Vermont, USA  
*ADDICTION POTENTIAL OF CIGARETTES WITH REDUCED NICOTINE CONTENT IN PREGNANT WOMEN*

**Harvey Ho, PhD**  
Senior Research Fellow  
Auckland Bioengineering Institute, University of Auckland  
Auckland, New Zealand  
*IN SILICO SIMULATIONS FOR NICOTINE EFFECTS ON THE CARDIOVASCULAR SYSTEM OF FETUSES*

**Susan Kaai, BEd, MSc, PhD**  
ITC Research Scientist & Adjunct Assistant Professor (School of Public Health and Health Systems)  
International Tobacco Control Policy Evaluation (ITC) Project  
University of Waterloo  
Waterloo, Ontario, Canada  
*SMOKERS’ RESPONSE TO THE NEWLY IMPLEMENTED KENYAN PICTORIAL HEALTH WARNINGS AND ZAMBIA’S SINGLE-TEXT WARNING: FINDINGS FROM ITC KENYA AND ZAMBIA SURVEYS*

**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.
2020 Award Recipient:

**Tracy Smith, PhD**  
Assistant Professor  
Addiction Sciences Division, Department of Psychiatry and Behavioral Sciences  
Medical University of South Carolina  
Research Member, Cancer Control and Prevention  
Hollings Cancer Center  
Charleston, South Carolina, USA

**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.

THE DOLL-WYNDER AWARD

The Doll-Wynder Award honors scientists who have made groundbreaking advances in public health, public policy, or epidemiological research.

2020 Award Recipient:
Ann McNeill, PhD
Professor of Tobacco Addiction, Institute of Psychiatry, Psychology & Neuroscience (IoPPN), King’s College London & Vice Dean (Culture, Diversity & Inclusion), IoPPN
London, UK

RICHARD DOLL

Sir William Richard Shaboe Doll was a British physiologist who became the foremost epidemiologist of the 20th century, turning the subject into a rigorous science. He was a pioneer in research linking smoking to health problems. With Ernst Wynder, Bradford Hill, and Evarts Graham, he was credited with being the first to prove that smoking caused lung cancer and increased the risk of heart disease.

In 1948, he joined a research team under Dr. Francis Avery-Jones at the Central Middlesex Hospital, run under the auspices of the statistical research unit of the Medical Research Council. Over a 21-year career in the unit, Doll rose to become its director. In 1950, with Austin Bradford Hill, he undertook a study of lung cancer patients in 20 London hospitals, at first under the belief that it was due to the new material tarmac or motor car fumes, but rapidly discovering that tobacco smoking was the only factor they had in common. Doll himself stopped smoking as a result of his findings, published in the *British Medical Journal* in 1950, which concluded; “The risk of developing the disease increases in proportion to the amount smoked. It may be 50 times as great among those who smoke 25 or more cigarettes a day as among non-smokers.”

Four years later, in 1954 the British Doctors Study, a study of some 40,000 doctors over 20 years, confirmed the suggestion, which led to a government-issued advice that smoking and lung cancer rates were related.

In 1966, Doll was elected to the Royal Society. The citation stated: Doll is distinguished for his researches in epidemiology, and particularly the epidemiology of cancer where in the last 10 years he has played a prominent part in (a) elucidating the causes of lung cancer in industry (asbestos, nickel
& coal tar workers) and more generally, in relation to cigarette smoking; and (b) in the investigation
of leukaemia particularly in relation to radiation, where using the mortality of patients treated with
radiotherapy he has reached a quantitative estimate of the leukaemogenic effects of such radiation.
In clinical medicine he has made carefully controlled trials of treatments for gastric ulcer. He has been
awarded the United Nations Prize for outstanding research into the causes and control of cancer and
the Bisset Hawkins Medal of the Royal College of Physicians for his contributions to preventative
medicine. Doll was made a Fellow of the Royal Society in 1966, knighted in 1971, and awarded the
Edward Jenner Medal of the Royal Society of Medicine in 1981. In 1996, he was made a Companion
of Honour for “services of national importance”. International honours included the Presidential Award
of the New York Academy of Sciences as well as a UN Award for his research into cancer. In April
2005, he was awarded the Saudi Arabian King Faisal International Prize for medicine jointly with
Richard Peto for their work on diseases related to smoking. In 2004, he was awarded the inaugural
Shaw Prize for Life Sciences and Medicine for his contribution to modern cancer epidemiology. He
was also awarded honorary degrees by 13 different universities.

ERNST WYNDER

Ernst Ludwig Wynder was an American epidemiology and public health researcher who studied the
risk factors of smoking tobacco. His 1950 coauthored publication entitled, “Tobacco Smoking as a
Possible Etiologic Factor in Bronchiogenic Carcinoma: A Study of 684 Proved Cases” appeared in
the Journal of the American Medical Association. It was one of the first major scientific publications
identifying smoking as a contributory cause of lung cancer.

Wynder began collaborating with his coauthor on the article, Evarts Ambrose Graham, as a medical
student at Washington University in St. Louis in 1947. The previous summer he had conducted
epidemiological studies of smoking behavior among 146 lung cancer patients in New York City. The
project was funded by the American Cancer Society. Now, with Graham, Wynder collected extensive
data on 604 patients with lung cancer at hospitals across the United States. Departing from a tradition
of using anecdotal evidence (e.g., clinical interviews) to develop explanations of disease causation,
Wynder and Graham applied rudimentary statistical methods to their study. They divided patients
into crude categories of “moderate” or “heavy” smokers, based on retrospective interviews of each
patient’s smoking behavior over a 20-year period. They also measured and controlled for important
confounding factors (e.g., age, types of tobacco use, inhalation level). Most importantly, with regard
to an ability to demonstrate causation, Wynder and Graham also studied a control group of cancer-
free individuals in hospitals. They used this control group to systematically compare their lung cancer
patients.

On May 27, 1950, the Journal of the American Medical Association published the resulting scientific
report. Wynder and Graham found that lung cancer could develop among nonsmokers, such that
smoking is not the single factor in the induction of disease. But they identified smoking’s role as a
significant risk factor for lung cancer, providing four reasons to support this argument: 1) lung cancer
prevalence was found to be rare in nonsmokers; 2) among patients with lung cancer, cigarette use
tended to be high; 3) lung cancer prevalence among men and women matched patterns of smoking
behavior in men and women; and 4) “the enormous increase in the sale of cigarettes in this country
approximately parallels the increase in [lung cancer].” As further scientific evidence of smoking’s role
in causing lung cancer began to mount in the United States and Great Britain, Wynder and Graham
investigated the biological plausibility of the association between smoking and lung disease. In 1950,
they initiated a study of the impact of tars from tobacco smoke on mice. After a year of exposure
to tar, 44 percent of the mice developed cancers. Wynder also discovered specific carcinogens in
tar (e.g., benzopyrenes, arsenic), but was unable to identify the contributions of these chemicals to
cancer.
### 2020 SRNT TRAVEL AWARD WINNERS

<table>
<thead>
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<th>Name</th>
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<tr>
<td>Mariel Bello, USA</td>
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<td>Adam Cole, PhD, Canada</td>
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<td>Chelsea Cox, USA</td>
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<td>Allissa Flynn, USA</td>
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<td>Brittny Keller-Hamilton, PhD, USA</td>
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<td>Minji Kim, USA</td>
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<td>Eleanor Leavens, USA</td>
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<td>Udoka Obinwa, USA</td>
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<td>Hayley Pelletier, Canada</td>
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<td>Patricia Simon, PhD, USA</td>
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<td>Soha Talih, PhD, Lebanon</td>
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<td>Zhongli Yang, China</td>
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<td>Dana Carroll, USA</td>
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<td>John Correa, PhD, USA</td>
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<td>Robert Fairman, USA</td>
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<td>Brent Kaplan, USA</td>
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<td>Jasmine Khouja, UK</td>
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<td>Loren Kock, UK</td>
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<td>Ryan Nugraha, MD, Indonesia</td>
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<td>Joanne Patterson, PhD, USA</td>
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<td>Anupreet Sidhu, USA</td>
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<td>Elise Stevens, USA</td>
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<td>Tomoyuki Tanigawa, MD, Japan</td>
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<td>ManHua Zhu, USA</td>
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### 2020 SRNT HEALTH DISPARITIES TRAVEL SCHOLARS

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<th>Name</th>
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<tr>
<td>Adam Alexander, PhD, USA</td>
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<td>Laurel Brockenberry, USA</td>
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<td>Ashley Cole, PhD, USA</td>
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<td>Teresa DeAtley, USA</td>
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<td>Angeline Dukes, USA</td>
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<td>Afsheen Hasan, USA</td>
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<td>Jin Kim-Mozeleski, PhD, USA</td>
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<td>Chaelin (Karen) Ra, PhD, USA</td>
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<td>Julia Chen-Sankey, PhD, USA</td>
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<td>Caitlin Smith, USA</td>
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<td>Joanna Streck, USA</td>
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<td>Irene Pericot-Valverde, PhD, USA</td>
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<td>Randi Williams, PhD, USA</td>
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### 2020 SRNT SPONSORS & EXHIBITORS

Plan time in your schedule to visit with the SRNT sponsors and exhibitors. They are located in **SRNT CENTRAL** in the Foyer Areas of the **Grand Ballroom & Grand Salons (First Floor)**.

Thanks to all the companies exhibiting this year. SRNT appreciates their financial support!

**Exhibit Hours:**

- Thursday, March 12, 2020 ................................................................. 9:00 a.m.-3:00 p.m.
- Friday, March 13, 2020 ................................................................. 9:30 a.m.-3:00 p.m.
2020 SRNT SUPPORTERS

SRNT would like to thank American Heart Association and Westat for their financial support of the 2020 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.

CONFERENCE REMINDERS

• Filming and recording in SRNT Poster Sessions is strictly prohibited.
• Photography is only allowed with the explicit permission of individual presenters.
• Please note: presentation of research in SRNT sessions does not imply endorsement of findings.

CONFERENCE EVALUATION

Thank you again for attending the meeting! We hope you enjoy the sessions and New Orleans, Louisiana, USA. An overall program evaluation will be emailed to all Annual Meeting participants following the conference. Your feedback is greatly appreciated!
MEETING ROOM FLOOR PLANS

Hilton New Orleans Riverside • Meeting Space Overview

LEVEL 3
1. WINDSOR
2. OUTDOOR POOL
3. COMMERCE
4. CANAL
5. CAMP
6. ASCOT
7. NEWBURY
8. ROYAL
9. MAGAZINE
10. JACKSON
11. FULTON
12. TRAFALGAR
13. NORWICH
14. DURHAM
15. WARWICK
16. PARISH
17. THE DISTRICT
18. ST JAMES BALLROOM
19. JEFFERSON BALLROOM
20. ST CHARLES BALLROOM
21. BOURBON BOARDROOM

LEVEL 2
1. MARLBOROUGH A
2. MARLBOROUGH B
3. CHEQUERS
4. PRINCE OF WALES
5. EGLINTON WINTON
6. CAMBRIDGE
7. TO MAIN LOBBY
8. EXECUTIVE BOARDROOM
9. CHURCHILL
10. GARAGE LOAD IN

LEVEL 1
1. GRAND BALLROOM
2. GRAND BALLROOM A
3. GRAND BALLROOM B
4. GRAND BALLROOM C
5. GRAND BALLROOM D
6. TO FRONT ENTRANCE
7. SIDE DRIVE ENTRANCE
8. CHEMIN ROYALE
9. LOADING DOCK
10. GRAND SALON
MEETING ROOM FLOOR PLANS

Hilton New Orleans Riverside • First Floor

Ballroom AB (General Session)
Ballroom C
Ballroom D

Salon 7-10
Salon 13-16
Salon 19-22

Salon 3-6
Salon 9-12
Salon 15-18
Salon 21-24

GRAND BALLROOM
CHEMIN ROYALE FOYER
GRAND SALON
TUESDAY, MARCH 10, 2020

4:30 PM - 6:30 PM
SRNT Central (First Floor)
Registration

4:30 PM - 6:30 PM
Burgundy Room (First Floor)
Speaker Ready Room

WEDNESDAY, MARCH 11, 2020

7:15 AM - 7:00 PM
SRNT Central (First Floor)
Registration

8:30 AM - 11:30 AM
Grand Ballroom C (First Floor)
Pre-Conference Workshop #1- mHealth Interventions for Tobacco Cessation: Engaging Diverse Users and Innovative Technologies

8:30 AM - 11:30 AM
Salon 9-12 (First Floor)
Pre-Conference Workshop #2- Advancing the Science of Youth Cessation: Treatment Strategies and Research Needs

8:30 AM - 11:30 AM
Grand Ballroom D (First Floor)
Pre-Conference Workshop #3- Applying Intersectionality to Achieve Health Equity for Marginalized Groups: Challenges and Opportunities for Tobacco Control Research and Practice

8:30 AM - 11:30 AM
Salon 15-18 (First Floor)
Pre-Conference Workshop #4- Mentorship and Establishing Collaborations for Early-Career Researchers: How Can You Leverage Your Career Options by Making the Right Decisions?
8:30 AM - 11:30 AM
   Salon 7-10 (First Floor)
   Pre-Conference Workshop #5- Succeeding as Women in Nicotine and Tobacco Research

8:30 AM - 11:30 AM
   Salon 13-16 (First Floor)
   Pre-Conference Workshop #6- Introduction To Time-Varying Mediation Analysis With Application To Smoking Cessation Research

8:30 AM - 11:30 AM
   Salon 3-6 (First Floor)
   Pre-Conference Workshop #7- Spatial Analysis of Tobacco Retailers: Implications for Regulation and Reducing Disparities

8:30 AM - 11:30 AM
   Salon 21-24 (First Floor)
   Pre-Conference Workshop #8- Polygenic Risk Scores for Tobacco Dependence and Treatment: Promises and Pitfalls

8:30 AM - 11:30 AM
   Salon 19-22 (First Floor)
   Pre-Conference Workshop #9- Research Methodologies in the Context of Global Tobacco Research: Challenges and the Importance of Harmonization

11:30 AM - 1:00 PM
   Lunch Break (on your own)

12:00 PM - 7:00 PM
   Burgundy Room (First Floor)
   Speaker Ready Room

1:00 PM - 2:00 PM
   Royal (Third Floor)
   Adolescent Network Meeting (members only)

1:00 PM - 2:00 PM
   Canal (Third Floor)
   Genetics and Omics Network Meeting (members only)
1:00 PM - 2:00 PM  
Camp (Third Floor)  
**Global Research Network Meeting (members only)**

1:00 PM - 2:00 PM  
Jackson (Third Floor)  
**Health Disparities Network Meeting (members only)**

2:00 PM - 2:15 PM  
**Break**

2:15 PM - 3:15 PM  
Camp (Third Floor)  
**Basic Science Network Meeting (members only)**

2:15 PM - 3:15 PM  
Royal (Third Floor)  
**Policy Research Network Meeting (members only)**

2:15 PM - 3:15 PM  
Commerce (Third Floor)  
**Treatment Research Network Meeting (members only)**

3:15 PM - 3:30 PM  
**Break**

3:30 PM - 5:15 PM  
Grand Ballroom D (First Floor)  
**An Update on FDA Tobacco Regulatory Programs and Priorities**  
**Session Chair:** Matthew R. Holman, PhD, Director, Office of Science, FDA Center for Tobacco Products  
**Presenters:** Tesfa Alexander, PhD, Director, Division of Research and Evaluation, Office of Health Communications and Education, FDA Center for Tobacco Products; Matthew R. Holman, PhD, Director, Office of Science, FDA Center for Tobacco Products

5:15 PM - 5:30 PM  
**Break**
5:30 PM - 6:45 PM  
Grand Ballroom B (First Floor)  
**Opening Plenary**  
**Presidential Symposium on Adolescent Tobacco Use Cessation**  
**Session Chair:** Suzanne M. Colby, PhD, Brown University School of Public Health, Providence, RI  
**Presenters:** Ahmed Jamal, MBBS, CDC Office on Smoking and Health; Suchitra Krishnan-Sarin, PhD, Yale University; Robin Mermelstein, PhD, University of Illinois at Chicago

6:45 PM - 8:00 PM  
St. Charles Ballroom (Third Floor)  
**Opening Welcome Reception**
SESSION SUMMARY
THURSDAY
MARCH 12, 2020
THURSDAY, MARCH 12, 2020

7:15 AM - 5:00 PM  
SRNT Central (First Floor)  
Registration

7:15 AM - 5:00 PM  
Burgundy Room (First Floor)  
Speaker Ready Room

7:15 AM - 8:15 AM  
St. James Ballroom (Third Floor)  
Health Disparities Network Breakfast Meeting

8:15 AM - 8:30 AM  
Break

8:30 AM - 9:30 AM  
Grand Ballroom B (First Floor)  
Welcome  
Basic Science Keynote Plenary  
Mechanisms of Addiction in Adolescence  
Session Chair: Gideon St.Helen, PhD  
Presenter: Mary Heitzeg, PhD, Associate Professor, Addiction Center, Department of Psychiatry, University of Michigan, Ann Arbor, Michigan

9:00 AM - 3:00 PM  
SRNT Central (First Floor)  
Exhibits Open

9:30 AM - 10:00 AM  
SRNT Central (First Floor)  
Refreshment Break & Exhibitor Time

10:00 AM - 11:30 AM  
Grand Ballroom D (First Floor)  
Podium Presentation 1: Paper Session 1

ENDS: CHEMICAL ANALYSIS OF ADDITIVES, SALTS, AND EMISSION  
Chair: Heather Kimmel  
Audience: PH *

Audience Key: PC: Pre-Clinical; C: Clinical; P: Policy; PH: Public Health; *: Conference Themed Session
POD1-1: CHEMISTRY INSIGHTS INTO TOBACCO PRODUCT FLAVORANTS: E-LIQUID REACTIVITY AND SYNTHETICALLY ALTERED MOLECULES  
Hanno C. Erythropel*, Sairam V. Jabba, Tamara M. de Winter, Paul T. Anastas, Stephanie S. O’Malley, Suchitra Krishnan-Sarin, Sven-Eric Jordt, Julie B. Zimmerman

POD1-2: SYNTHETIC COOLING AGENTS IN E-CIGARETTE LIQUIDS- CHEMISTRY, PHARMACOLOGY AND EFFECTS ON NICOTINE CONSUMPTION  
Sairam V. Jabba*, Hanno C. Erythropel, Arin A. Drtíl, Lauren Delgado, Paul T. Anastas, Julie B. Zimmerman, Sven-Eric Jordt

POD1-3: E-CIGARETTES, METAL EMISSIONS, AND BRAIN TISSUE DISTRIBUTION IN A MICE MODEL  
Maxine Coady*, Markus Hilpert, Vesna Ilievski, Ana Navas-Acien, Norman J. Kleiman, Diane Re

POD1-4: TYPES OF ACIDS IN 24 “NICOTINE SALT” ELECTRONIC CIGARETTE REFILL LIQUIDS  
Arit Harvanko*, Christopher Havel, Peyton Jacob, III, Neal Benowitz

POD1-5: METAL CONCENTRATIONS EMITTED FROM E-CIGARETTE POD DEVICES: A COMPARISON BY BRAND AND FLAVOR  
Angela Aherrera*, Ana M. Rule, Walter Goessler

POD1-6: HEAVY METALS IN ENDS LIQUIDS: A COMPARATIVE ANALYSIS OF PRODUCTS FROM US, UK, CANADA, AND AUSTRALIA  
Ashleigh M. Coggins*, Noel Leigh, Maciej Goniewicz

10:00 AM - 11:30 AM  
Salon 3-6 (First Floor)  
Podium Presentation 1: Paper Session 2  
ANTICIPATED AND UNANTICIPATED EFFECTS OF PRICE ON BEHAVIOR  
Chair: Emily Hébert  
Audience: PH, P

POD2-1: UNANTICIPATED EFFECTS OF ELECTRONIC CIGARETTE TAXES ON PRICES AND CONSUMPTION  
Abigail S. Friedman*, Jon F. Oliver, Susan H. Busch

POD2-2: IMPACT OF AN E-CIGARETTE TAX ON COMBUSTED CIGARETTE USE IN A LOWER-MIDDLE INCOME COUNTRY  
M. Justin Byron*, Elizabeth Orlan, Dien Anshari, Sarah D. Kowitt, Leah Ranney, Adam O. Goldstein

POD2-3: DO CIGARETTE SMOKERS EXPERIENCING ECONOMIC HARDSHIP SUBSTITUTE LOWER-PRICED CIGARILLOS OR FILTERED CIGARS FOR CIGARETTES?  
Kristie A. Taylor*, Tasmia Naz, Kevin Frissell, Stacey Dietz, Mary Noorzai, Sarah Measday-Ralls

POD2-4: IMPACT OF MARK-UP POTENTIAL ON SALES OF HEATED TOBACCO PRODUCTS AND CIGARETTES EVALUATION FROM DIFFERENCES IN EXCISE TAXATION ACROSS COUNTRIES  
Estelle P. Dauchy, Naomi Feldman, Ce Shang*
POD2-5: THE COSTS OF VAPING - EVIDENCE FROM ITC FOUR COUNTRY SMOKING AND VAPING SURVEY

10:00 AM - 11:30 AM
Salon 9-12 (First Floor)
Podium Presentation 1: Paper Session 3
ENHANCING EFFECTIVENESS OF HEALTH WARNING LABELS: INTERNATIONAL PERSPECTIVES
Chair: Nancy Fleisher
Audience: PH, P

POD3-1: HEALTH WARNING LABEL COMPLIANCE OVER TIME: A 9-COUNTRY STUDY
Michael Iacobelli*, Kevin Welding, Katherine Smith, Joanna Cohen

POD3-2: FRAMING MATTERS: A SYSTEMATIC REVIEW OF THE MODERATED RELATIONSHIP BETWEEN FRAMING AND THE PERCEIVED EFFECTIVENESS OF GRAPHIC HEALTH WARNING LABELS
Joseph Macisco*, Elizabeth G. Klein

POD3-3: SMOKERS’ RESPONSE TO THE NEWLY IMPLEMENTED KENyan PICTORIAL HEALTH WARNINGS AND ZAMBIA’S SINGLE-TEXT WARNING: FINDINGS FROM ITC KENya AND ZAMBIA SURVEYS
Susan C. Kaai*, Geoffrey T. Fong, Gang Meng, Jane Ong’ang’o, Fastone Goma, Anne C.K. Quah, Lawrence Ikamari

POD3-4: A CIGARETTE CONSTITUENT CAMPAIGN’S INFLUENCE ON SMOKING BEHAVIORS: A RANDOMIZED CONTROLLED TRIAL
Adam O. Goldstein*, Kristen L. Jarman, Sarah D. Kowitt, Tara L. Queen, KyungSu Kim, Bonnie Shook-Sa, Seth M. Noar, Paschal J. Sheeran, Leah M. Ranney

POD3-5: ENHANCING ROLL-YOUR-OWN LOOSE TOBACCO PACKAGING WARNING LABELS WITH SELF-EFFICACY AND RESPONSE EFFICACY MESSAGES: A QUALITATIVE EXPLORATION
Mei-Ling Blank*, Janet Hoek

POD3-6: INTEGRATING OBJECTIVE MEASURES OF VISUAL ATTENTION TO IMPROVE MODELS EXAMINING PICTORIAL WARNING LABEL EFFECTS ON CHANGES IN CIGARETTE SMOKING BEHAVIOR
Melissa Mercincavage*, Nichole M. Scaglione, Kirsten Lochbuehler, Valentina Souproumtchouk, Joseph N. Cappella, Andrew A. Strasser

Audience Key: PC: Pre-Clinical; C: Clinical; P: Policy; PH: Public Health; *: Conference Themed Session
10:00 AM - 11:30 AM
Salon 15-18 (First Floor)
**Podium Presentation 1: Paper Session 4**

**EVALUATING TOBACCO 21 IMPLEMENTATION**

*Chair:* Michael S. Amato  
*Audience:* P *

**POD4-1:** TOBACCO 21 LAWS IN THE US: AN ASSESSMENT OF THE STRENGTH OF STATE LAWS.  
Ayodeji J. Awopegba*, Jeffrey J. Hardesty, Joanna E. Cohen

**POD4-2:** THE CALIFORNIA TOBACCO 21 LAW: DOES IT AFFECT ALL ADOLESCENTS EQUALLY?  
Sharon Lipperman-Kreda*, Grisel García-Ramírez, M.J. Paschall, Joel, W Grube, Melissa Abadi

**POD4-3:** PREDICTING THE EFFECTS OF TOBACCO 21 LAW ON CIGARETTE USE AMONG YOUTH IN VIRGINIA  
Xiaolu Cheng*, Shuo-Yu Lin, Duanduan Yuan, Andrew Barnes, Randy Koch, Hong Xue

**POD4-4:** E-CIGARETTE AND CIGARETTE PURCHASING BEHAVIOR AMONG ADOLESCENTS AND YOUNG ADULTS BEFORE AND AFTER IMPLEMENTATION OF A STATE-WIDE TOBACCO 21 POLICY  
Sara J. Schiff*, Fei Liu, Tess Boley Cruz, Jennifer B. Unger, Samantha N. Cwalina, Adam Leventhal, Rob McConnell, Jessica L. Barrington-Trimis

**POD4-5:** A MULTILEVEL PROPENSITY SCORE MODEL TO PREDICT U.S. UNDERAGE SALES OF TOBACCO  
Hongying Dai*

**POD4-6:** UNDERUTILIZATION OF NO-TOBACCO-SALE ORDERS AGAINST RETAILERS THAT REPEATEDLY SELL TO MINORS, 2015-2019  
Desmond Jenson*, Joseph Lee, Brice Bowrey, Natalie Hemmerich

10:00 AM - 11:30 AM
Salon 21-24 (First Floor)
**Podium Presentation 1: Paper Session 5**

**ADVANCEMENTS IN CESSATION STRATEGIES**

*Chair:* Jennifer Dahne  
*Audience:* PC

**POD5-1:** A MULTICENTER, DOUBLE-BLIND, RANDOMIZED, PLACEBO-CONTROLLED PHASE 2B TRIAL OF CYTISINICLINE IN ADULT SMOKERS - LEADING TO A SIMPLIFIED SCHEDULE FOR PHASE 3 TRIAL DESIGN  
Mitchell Nides*, Nancy Rigotti, Neal Benowitz, Dan Cain, Anthony Clarke, Cindy Jacobs
POD5-2: PRACTICE QUIT ATTEMPTS: SCOPING REVIEW OF A NOVEL INTERVENTION STRATEGY
Chelsea Cox*, Jennifer Westrick, Amanda Mathew

POD5-3: AXS-05 (DEXTROMETHORPHAN AND BUPROPION) ASSOCIATED WITH GREATER REDUCTION IN SMOKING THAN BUPROPION
James Davis*

POD5-4: OLDER ADULT SMOKERS: DO THEY ENGAGE WITH AND BENEFIT FROM WEB-BASED SMOKING CESSION INTERVENTIONS?
Diana M. Kwon*, Kristin Mull, Jonathan B. Bricker

POD5-5: MULTI-CENTER RANDOMIZED CONTROLLED NON-INFERIORITY TRIAL OF CLINICAL EFFICACY COMPARED TELEMEDICINE VS FACE-TO-FACE VISITS FOR SMOKING CESSION
Tomoyuki Tanigawa*, Akihiro Nomura, Kohta Satake

10:00 AM - 11:30 AM
Grand Ballroom B (First Floor)
Podium Presentation 1: Symposium 1

NEW FINDINGS ON HEATED TOBACCO PRODUCTS (HTPs): EFFECTS ON SMOKERS, NON-SMOKERS, AND E-CIGARETTE USERS
Chair: Maciej Lukasz Goniewicz
Audience: P, PH, C

SYM1A: HEATED TOBACCO PRODUCT USE AMONG SMOKERS AND VAPERS: FINDINGS FROM THE 2018 ITC 4 COUNTRY SMOKING AND VAPING SURVEY

SYM1B: DEVICE BRAND AND FLAVOR PREFERENCES AMONG USERS OF HEATED TOBACCO PRODUCTS IN JAPAN: FINDINGS FROM THE 2018 ITC JAPAN SURVEY

SYM1C: EXPLORING SMOKERS’ AND EX-SMOKERS’ USE OF IQOS: A QUALITATIVE STUDY OF IQOS USERS AND EX-USERS IN LONDON, UK
Sara C. Hitchman*, Charlotte NE. Tompkins, Annabel Burnley, Ann McNeill

SYM1D: EXPOSURE TO NICOTINE AMONG USERS OF CIGARETTES, ELECTRONIC CIGARETTES, AND HEATED TOBACCO PRODUCTS

SYM1E: THE EFFECT OF TAX ON IQOS AND CIGARETTE PURCHASES IN JAPAN
Michal Stoklosa*, Zachary Cahn, Clifford Douglas, Jeffrey Drope, Alex Liber, Nigar Nargis

Audience Key: PC: Pre-Clinical; C: Clinical; P: Policy; PH: Public Health; *: Conference Themed Session
10:00 AM - 11:30 AM
Salon 7-10 (First Floor)
**Podium Presentation 1: Symposium 2**

**TAKING SEX DIFFERENCES CLINICAL RESEARCH ON NICOTINE TO THE NEXT LEVEL**

*Co-Chairs:* Raina D. Pang, and Alicia M. Allen  
*Audience: C*

**SYM2A:** SEX DIFFERENCES IN THE NEURAL SUBSTRATES OF CIGARETTE CRAVING, WITHDRAWAL, AND RELIEF  
*Maylen Perez Diaz* 

**SYM2B:** PREMENOPAUSAL FEMALE DAILY SMOKERS WITH ELEVATED PREMENSTRUAL AFFECTIVE SYMPTOMS REPORT GREATER POSITIVE CIGARETTE EFFECTS  
*Raina D. Pang* 

**SYM2C:** HORMONAL CONTRACEPTIVE USE AND SMOKING-RELATED SYMPTOMS: A PRELIMINARY LINK IN AN UNDERSTUDIED GROUP  
*Alicia M. Allen* 

**SYM2D:** SEX-DIFFERENCES RESEARCH INFORMING INVESTIGATION OF A NOVEL PHARMACOLOGICAL TREATMENT FOR SMOKING IN WOMEN  
*Elise E. DeVito*

10:00 AM - 11:30 AM
Salon 13-16 (First Floor)
**Podium Presentation 1: Symposium 3**

**BEYOND THE “LOCK AND KEY” CONCEPTUALIZATION OF NICOTINIC SIGNALING: NOVEL MODULATORS OF NICOTINIC RECEPTORS**

*Co-Chairs:* Brandon Henderson, and Christie D. Fowler  
*Audience: PC*

**SYM3A:** Subcellular Pharmacokinetics of Nicotinic Drugs Help to Explain the Trafficking of Nicotinic Receptors  
*Henry A. Lester* 

**SYM3B:** Lynx1 Modulates Function of NACHR Subtypes Found in a Smoking-Related Neuronal Circuit Through Multiple, Isoform-Selective, Mechanisms  
*Paul Whiteaker*

**SYM3C:** The Nicotinic Receptor Modulator, Lynx2, Regulates Anxiety-Related Behaviors Through Interactions with NACHR Subtypes in Anxiety-Related Circuitry  
*Julie M. Miwa* 

**SYM3D:** Lynx2 Modulates Nicotine Self-Administration and Relapse-Related Behaviors  
*Christie D. Fowler*
10:00 AM - 11:30 AM
Salon 19-22 (First Floor)
Podium Presentation 1: Symposium 4

NEW APPROACHES TO CHRONIC CARE FOR SMOKING IN HEALTHCARE

Chair: Tanya R. Schlam
Audience: C

SYM4A: EFFECTS OF MOTIVATION PHASE INTERVENTION COMPONENTS ON QUIT ATTEMPTS AND ABSTINENCE IN SMOKERS UNWILLING TO QUIT: A FACTORIAL EXPERIMENT

SYM4B: STRIKE AGAIN WHILE THE IRON IS HOT: A SMART (SEQUENTIAL, MULTIPLE ASSIGNMENT, RANDOMIZED TRIAL) OF CHRONIC CARE INTERVENTION FOR SMOKING Tanya R. Schlam*, Megan E. Piper, Jessica Cook, Stevens S. Smith, Michael C. Fiore, Timothy B. Baker

SYM4C: PLUTO TRIAL: THE IMPACT OF INITIAL RESPONSE TO TREATMENT ON THE DELIVERY OF A LONGITUDINAL CARE MODEL OF SMOKING CESSATION
Anne Joseph*, Alex Rothman, David Vock, Anne Melzer, Abbie Begnaud, Kelsey Schertz, Bruce Lindgren, Steven Fu

SYM4D: ENGAGING PERSISTENT SMOKERS SIX MONTHS POST-HOSPITAL DISCHARGE WITH EITHER TELEPHONE-BASED CARE COORDINATION OR STANDARD TELEPHONE-BASED SMOKING CESSATION COUNSELING
Edward F. Ellerbeck*, Lisa Sanderson Cox, Tresza D. Hutcheson, Sharon A. Fitzgerald, Kimberly P. Richter

SYM4E: COMPARING TWO METHODS OF PROACTIVE CARE COORDINATION FOR CANCER SURVIVORS WHO SMOKE
Paul Krebs*, Jane Henley, Behnoosh Momin, Bridgette E. Garrett, Jamie Ostroff, Keith Goldfeld, Amanda Greenspan, Lei Lei

10:00 AM - 11:30 AM
Grand Ballroom C (First Floor)
Podium Presentation 1: Symposium 5

THE NEW COOL IN SCHOOL: NOVEL STRATEGIES FOR MONITORING AND ADDRESSING E-CIGARETTE USE AMONG STUDENTS

Chair: Michael Tynan
Audience: PH *

SYM5A: JUUL AND E-CIGARETTE AWARENESS AND RELATED EXPERIENCES AMONG PARENTS AND SCHOOL PERSONNEL
Minal Patel*, Lauren Czaplicki, Alison Cuccia, Elizabeth Hair, Barbara A. Schillo, Donna Vallone
SYM5B: RAPID ASSESSMENT OF SCHOOL STAFF’S KNOWLEDGE OF HIGH SCHOOL STUDENTS’ E-CIGARETTE USE AND SCHOOL POLICY — NORTH CAROLINA, 2019
Lauren Tanz*, Courtney Heck, Carolyn Hezig, Sally Herndon, Jim Martin, Marisa Hast, Eileen McGowan, Mays Shamout, Susan Kansagra, Michael Tynan

SYM5C: RAPID ASSESSMENT OF SCHOOL STAFF’S KNOWLEDGE AND AWARENESS OF STUDENTS’ E-CIGARETTE USE AND SCHOOL POLICY – CALIFORNIA, 2019
Mays Shamout*, Rebecca Glover-Kudon, Lisa Oakley, Rebecca Williams, Catherine Hess, Chunxia Wang, Sarah Planche, Sean Hu, Brian King

SYM5D: USING GARBAGE MAPPING TO UNDERSTAND HOW THE MICRO CULTURES OF HIGH SCHOOLS ARE BEING ALTERED BY JUULING — SAN FRANCISCO BAY AREA, 2019-2020
Jeremiah Mock*, Yogi Hendlin, Gia Asher, Jasmine Gerraty, Kelsey Fernandez

SYM5E: CHEMICAL ANALYSIS OF VAPING PRODUCTS CONFISCATED BY CALIFORNIA SCHOOL ADMINISTRATORS – FINDINGS AND IMPLICATIONS
Ping Wang*, Flavia Wong, Wenhao Chen, Kazukiyo Kumagai

11:30 AM - 1:00 PM
Churchill (Second Floor)
Poster Session 1: Policy/Pre-Clinical/Basic Science

11:30 AM - 1:00 PM
Churchill (Second Floor)
Lunch Break (Boxed Lunches Provided)

11:45 AM - 12:45 PM
Royal (Third Floor)
Past President Luncheon

1:00 PM - 2:30 PM
Grand Ballroom B (First Floor)
Awards Session
Public Health Keynote Plenary and Recipient of the 2020 Doll-Wynder Award
How Can Tobacco or Nicotine Harm Reducing Products Contribute to Eradicating the Global Scourge Caused by Tobacco?
Session Chair: Jonathan Foulds, PhD
Presenter: Ann McNeill, PhD, Professor of Tobacco Addiction, Institute of Psychiatry, Psychology & Neuroscience (IoPPN), King’s College London & Vice Dean (Culture, Diversity & Inclusion), IoPPN, London, UK
2:30 PM - 3:00 PM
SRNT Central (First Floor)
Refreshment Break & Exhibitor Time

3:00 PM - 4:30 PM
Grand Ballroom B (First Floor)
Podium Presentation 2: Paper Session 6

THE BRAVE NEW FLAVORED WORLD OF TOBACCO PRODUCTS: AN UPDATE ON THE CHEMISTRY, PHARMACOLOGY AND BEHAVIORAL EFFECTS OF FLAVOR ADDITIVES
Co-Chairs: Brandon J. Henderson*, and Sven-Eric Jordt*
Audience: PC

POD6-1: COMPARISON OF FLAVOR CHEMICALS AND CYTOTOXICITY OF AUTHENTIC AND COUNTERFEIT REFILL FLUIDS PURCHASED WORLDWIDE
Esther E. Omaiye*

POD6-2: A MACHINE LEARNING APPROACH FOR CATEGORIZATION OF FLAVORED E-LIQUIDS BASED ON FLAVOR INGREDIENT COMPOSITION
Erna Krusemann*

POD6-3: TOBACCO FLAVORS ALTER MIDBRAIN NEURONS AND CONTRIBUTE TO ADDICTION-RELATED BEHAVIOR
Brandon J. Henderson*

POD6-4: FLAVORS: CONDITIONED REINFORCERS INTERACT WITH SELF-ADMINISTERED NICOTINE IN RATS
Matthew Palmatier*

3:00 PM - 4:30 PM
Salon 3-6 (First Floor)
Podium Presentation 2: Paper Session 7

EVALUATING NATIONAL TOBACCO CONTROL MASS MEDIA CAMPAIGNS
Chair: Jennifer Dahne
Audience: PH, P, *

POD7-1: CHANGES IN KNOWLEDGE, ATTITUDES, AND BELIEFS AMONG RURAL BOYS IN THE REAL COST - SMOKELESS CAMPAIGN EVALUATION
Matthew Farrelly*, Nathaniel H. Taylor, Alexandria Smith, Janine Delahanty, Xiaoquan Zhao

POD7-2: THIS FREE LIFE CAMPAIGN, INVESTIGATING Campaign Engagement AND INTENTIONS TO QUIT AMONG LGBT YOUNG ADULT NONDAILY SMOKERS
Shiloh Elizabeth Beckerley*, Chris Matter

Audience Key: PC: Pre-Clinical; C: Clinical; P: Policy; PH: Public Health; *: Conference Themed Session
POD7-3: CDC’S 2018 TIPS® CAMPAIGN: RESULTS FROM ROUGH CUT TESTING OF TELEVISION ADVERTISEMENTS AMONG ADULT CIGARETTE SMokers
Michelle O’Hegarty*, Carol Haney, Lisa John, Diane Beistle

POD7-4: THE IMPACT ON QUITLINE CALL VOLUME OF ADDING AN OFFER OF FREE CESSATION MEDICATION TO NATIONAL ANTISMOKING ADVERTISEMENTS
Lei Zhang*, Nathan Mann, Robert Rodes, Rebecca Murphy, Steve Babb

POD7-5: EXPOSURE TO SMOKE-FREE LAWS AND TELEvised ANTI-TOBACCO MEDIA CAMPAIGN ADS AMONG SEXUAL MINORITIES COMPARED TO THE GENERAL POPULATION
Andrea R. Titus*, Kristi E. Gamarel, James F. Thrasher, Sherry L. Emery, Michael R. Elliott, Nancy Fleischer

POD7-6: EVALUATION OF THE LONDON SMOKING CESSATION TRANSFORMATION PROGRAMME. A TIME SERIES ANALYSIS
Sarah Jackson, Emma Beard, Robert West, Jamie Brown*

3:00 PM - 4:30 PM
Salon 9-12 (First Floor)
Podium Presentation 2: Paper Session 8
TARGETING MATTERS: REDUCING DISPARITIES IN CESSATION
Chair: Johannes Thrul
Audience: C, PH

POD8-1: EVALUATING A CULTURALLY-TAILORED SOCIAL MEDIA-BASED SMOKING CESSATION INTERVENTION FOR SEXUAL AND GENDER MINORITY YOUNG ADULTS
Gary L. Humfleet*, Erin Vogel, Meredith Meacham, Judith Prochaska, Danielle E. Ramo

POD8-2: TARGETING MATTERS - DROPOUT, RESPONSE, AND ABSTINENCE RATES AMONG LATINO SMOKERS ENROLLED IN SMOKEFREEESP
Kristyn Kamke*, Sherine El-Toukhy

POD8-3: INDIVIDUAL-LEVEL BEHAVIOURAL SMOKING CESSATION INTERVENTIONS TAILORED FOR DISADVANTAGED SOCIO-ECONOMIC POSITION: A SYSTEMATIC REVIEW AND META-REGRESSION
Loren Kock*, Jamie Brown, Rosemary Hiscock, Charlie Smith, Harry Tattan-Birch, Lion Shahab

POD8-4: A RANDOMIZED CONTROLLED TRIAL OF JUUL E-CIGARETTEs FOR AFRICAN AMERICAN AND LATINX SMOKERS
Kim Pulvers*, Nikki Nollen, Myra J. Rice, Christopher Schmid, Neal Benowitz, Jasjit Ahluwalia

POD8-5: CUMULATIVE AREA-LEVEL DISADVANTAGE BUT NOT RACE PREDICT ABSTINENCE IN A SMOKING CESSATION TRIAL
Nikki Nollen*, Matthew Mayo, Jarron Saint Onge, Taneisha Scheuermann, Ron Krebill, Lisa Sanderson Cox, Eleanor Leavens, David Chae, Jasjit Ahluwalia
POD8-6: RACE MODERATES THE EFFECTS OF MOTIVATIONAL INTERVIEWING ON SMOKING CESSATION INDUCTION
James E. Grobe, Kathy Goggin, Kari J. Harris, Kimber P. Richter, Ken Resnicow, Delwyn Catley*

3:00 PM - 4:30 PM
Salon 21-24 (First Floor)
Podium Presentation 2: Paper Session 9

SWITCHING AND SUBSTITUTION: MOVING PAST COMBUSTIBLE TOBACCO
Chair: Mikhail Koffarnus
Audience: C, PH, P

POD9-1: COMPARATIVE EFFICACY OF ELECTRONIC CIGARETTES (E-CIGARETTES) VERSUS NICOTINE PATCHES (NP) AS A SHORT-TERM REPLACEMENT FOR TOBACCO CIGARETTE SMOKING: A CROSS-OVER STUDY
Ernesto Ramos*, Ginnie Ng, Peter Selby, Laurie Zawertailo

POD9-2: COMPARING SUBSTITUTABILITY BETWEEN REDUCED-NICOTINE CIGARETTES AND USUAL-BRAND CIGARETTES IN THE EXPERIMENTAL TOBACCO MARKETPLACE
Brent Kaplan*, Mikhail Koffarnus, Warren Bickel

POD9-3: THE EFFECTS OF ELECTRONIC CIGARETTE FLAVORS ON WEIGHT GAIN AMONG CIGARETTE SMOKERS IN A SWITCHING TRIAL
Caitlin E. Smith*, Alayna P. Tackett, Jessica J. Hale, Theodore L. Wagener

POD9-4: PREDICTORS OF COMBUSTIBLE CIGARETTE CESSATION AMONG DUAL CIGARETTE AND ENDS USERS
Cary Huang, Kathleen R. Diviak*, Robin Mermelstein

POD9-5: SMOKERS’ EXPERIENCES WITH VAPING TO QUIT: A CONCEPT MAPPING STUDY
Hayley Pelletier*, Lori M. Diemert, Eric Soule, Joanna Cohen, Thomas Eissenberg, Shawn O’Connor, Robert Schwartz

3:00 PM - 4:30 PM
Salon 7-10 (First Floor)
Podium Presentation 2: Paper Session 10

CARCINOGENICITY AND CANCER RISK OF TOBACCO PRODUCTS
Chair: Irina Stepanov
Audience: PC, PH

POD10-1: INVESTIGATING THE CANCER-CAUSING POTENTIAL OF ELECTRONIC CIGARETTE USE
Amanda Caceres, Andrew W. Caliri, Stella Tommasi, Ahmad Besaratinia*
POD10-2: SCREENING FOR DNA DAMAGE INDUCED BY COMPOUNDS RELEVANT TO ELECTRONIC NICOTINE DELIVERY SYSTEMS USING ALTERNATIVE ASSAY SYSTEMS
Matthew J. Savidge, Pei-Hsuan (Chris) Hung, Mamata De, Sheila Healy, Luis G. Valerio Jr*

POD10-3: CADMIUM EXPOSURE AND LUNG CANCER RISK IN SMOKERS FROM THE MULTIETHNIC COHORT STUDY
Shannon Sullivan Cigan*, Sharon Murphy, Bruce Alexander, Sungshim L. Park, Irina Stepanov

POD10-4: SHEESHA SMOKING REDUCES THE EXPRESSIONS OF CANCER RELATED GENES
Hoda El-katerji*

POD10-5: HUMAN HEALTH RISK ASSESSMENT FOR PULEGONE, A CARCINOGENIC CHEMICAL IN MINT- AND MENTHOL- FLAVORED E-CIGARETTE LIQUIDS AND SMOKELESS TOBACCO PRODUCTS
Sairam V. Jabba*, Sven-Eric Jordt

3:00 PM - 4:30 PM
Salon 13-16 (First Floor)
Podium Presentation 2: Symposium 6
NEITHER HOME NOR AWAY INNOVATIVE METHODS FOR REMOTE CLINICAL TRIALS
Chair: Matthew Carpenter*
Audience: C

SYM6A: SCREENING FOR REMOTE CLINICAL TRIALS: METHODS TO ENHANCE PARTICIPANT DIVERSITY
Matthew J. Carpenter*, Amy E. Wahlquist, John T. Clark, Jennifer Dahne

SYM6B: REMOTE INFORMED CONSENT OPTIONS AND EVALUATION
Jihad S. Obeid*, Suparna Qanungo, Brandon M. Welch, Michelle Nichols

SYM6C: REMOTE ASSESSMENT OF SUBSTANCE USE: ENHANCING SELF-REPORT VIA MOBILE DEVICES
Rachel L. Tomko*, Kevin M. Gray, Lindsay M. Squeglia, Erin A. McClure

SYM6D: DEVELOPMENT AND EVALUATION OF A LOW COST, REMOTE METHOD TO BIOCHEMICALLY VERIFY SMOKING STATUS
Jennifer Dahne*, Rachel Tomko, Erin McClure, Matthew J. Carpenter
3:00 PM - 4:30 PM
Salon 15-18 (First Floor)
Podium Presentation 2: Symposium 7

SMOKE-FREE REGULATIONS IN THE UNITED STATES AND AROUND THE WORLD? LESSONS TO ACHIEVE 100% SMOKE-FREE
Co-Chairs: Ryan Kennedy*, and Kevin Welding*
Audience: PH, P

SYM7A: CROSS-SECTIONAL AND LONGITUDINAL EVALUATIONS OF COMPREHENSIVE VS. PARTIAL SMOKE-FREE LAWS: FINDINGS FROM THE ITC PROJECT ACROSS 28 COUNTRIES
Geoffrey T. Fong*

SYM7B: CHANGE IS IN THE AIR: TRENDS IN STATE AND LOCAL COMPREHENSIVE SMOKE-FREE LAWS IN THE UNITED STATES, 2000-2018
Brian King*

SYM7C: MEASURING COMPLIANCE WITH SMOKE-FREE LAWS, USING MOBILE TECHNOLOGY
Kerstin Schotte*

SYM7D: NOW SERVING CLEAN AIR IN NEW ORLEANS, AND OTHER LOCAL MUNICIPALITIES IN LOUISIANA
Tonia Moore*

3:00 PM - 4:30 PM
Grand Ballroom D (First Floor)
Podium Presentation 2: Symposium 8

INTERNATIONAL DIFFERENCES IN PATTERNS OF CANNABIS AND TOBACCO USE AMONG YOUTH AND ADULTS IN COUNTRIES WITH VARRYING CANNABIS POLICY REGULATIONS
Chair: Shannon Gravely*
Audience: PH, P

SYM8A: ASSOCIATIONS BETWEEN VAPING AND SMOKING NICOTINE AND CANNABIS AMONG YOUTH IN CANADA, ENGLAND AND THE UNITED STATES
Fathima Fataar*

SYM8B: THE EVOLVING CANNABIS PRODUCT MARKET AND DIFFERENCES BETWEEN ‘LEGAL’ AND ’ILLEGAL’ JURISDICTIONS: FINDINGS FROM THE INTERNATIONAL CANNABIS POLICY STUDY
David Hammond*

Audience Key: PC: Pre-Clinical; C: Clinical; P: Policy; PH: Public Health; *: Conference Themed Session
SYM8C: TRENDS IN CONCURRENT CIGARETTE AND CANNABIS USE (“CO-USE”) WITHIN STATE-LEVEL MEDICAL CANNABIS POLICY CONTEXTS: FINDINGS FROM WAVES 1-4 OF THE POPULATION ASSESSMENT OF TOBACCO AND HEALTH (PATH) STUDY
Danielle Smith

SYM8D: INTERNATIONAL DIFFERENCES IN PATTERNS OF CANNABIS AND CIGARETTE CO-USE AMONG ADULTS FROM THE 2018 ITC FOUR COUNTRY SMOKING AND VAPING SURVEY
Shannon Gravely

SYM8E: DO CHANGES IN CIGARETTE SMOKERS’ FREQUENCY OF CANNABIS USE INFLUENCE THEIR CHANCES OF SUCCESSFUL SMOKING CESSION? FINDINGS FROM THE 2016 & 2018 ITC FOUR COUNTRY SMOKING AND VAPING SURVEY
Pete Driezen

SYM8F: *DISCUSSANT
Maciej Goniewicz

3:00 PM - 4:30 PM
Grand Ballroom C (First Floor)
Podium Presentation 2: Symposium 9

JUUL AND OTHER POD-MOD USE AMONG ADOLESCENTS AND YOUNG ADULTS: TRENDS, PERCEPTIONS, AND IMPLICATIONS FOR HEALTH, POLICY, AND REGULATION
Chair: Jessica Barrington-Trimis*, and Benjamin W. Chaffee*
Audience: PH, *

SYM9A: CROSS-SECTIONAL ANALYSIS OF VARIOUS E-CIGARETTE DEVICE TYPES AMONG HIGH SCHOOL ADOLESCENTS IN CONNECTICUT FROM 2017-2019
Krysten W. Bold*, Grace Kong, Meghan E. Morean, Ralitza Gueorguieva, Deepa R. Camenga, Patricia Simon, Danielle R. Davis, Suchitra Krishnan-Sarin

SYM9B: E-CIGARETTE DEVICE TYPE, FLAVOR, CLOUD SIZE, AND NICOTINE CONTENT ASSOCIATED WITH YOUTH BELIEFS: A DESCREETE CHOICE EXPERIMENT
Benjamin W. Chaffee*, Janelle Urata, Elizabeth T. Couch, David Cash, Miranda Werts, Bonnie Halpern-Felsher

SYM9C: APPEAL OF JUUL AMONG ADOLESCENTS
Grace Kong*, Meghan E. Morean, Krysten W. Bold, Harmanpreet Bhatti, Deepa R. Camenga, Asti Jackson, Suchitra Krishnan-Sarin

SYM9D: HOW AND WHY ADOLESCENTS AND YOUNG ADULTS ARE USING DIFFERENT POD-TYPE E-CIGARETTES
Bonnie Halpern-Felsher*, Karma Mckelvey
SYM9E: HIGH SCHOOL STUDENTS’ USE OF JUUL DEVICES AND JUUL POD FLAVORS BEFORE AND AFTER RETAIL SALES RESTRICTIONS ON CERTAIN FLAVORS WERE IMPLEMENTED
Meghan Morean*, Krysten W. Bold, Grace Kong, Deepa Camenga, Asti Jackson, Patricia Simon, Danielle Davis, Suchitra Krishnan-Sarin

SYM9F: COLLEGE STUDENTS PERCEPTIONS ABOUT JUUL AND NICOTINE ADDICTION

3:00 PM - 4:30 PM
Salon 19-22 (First Floor)
Podium Presentation 2: Symposium 10
NOVEL PHARMACOLOGICAL TREATMENTS FOR SMOKING CESSATION:
TRANSLATIONAL RESEARCH AND MECHANISMS
Chair: James M. Davis*, and Jason A. Oliver*
Audience: C

SYM10A: DOPAMINE D3 AS A TARGET FOR TREATMENT: OVERVIEW OF PRECLINICAL RESULTS AND INSIGHT FROM RECENT HUMAN TRANSLATIONAL STUDIES

SYM10B: PROPRANOLOL AND SMOKING CUES: A TRANSLATIONAL INVESTIGATION OF NEURAL AND BEHAVIORAL EFFECTS
Jason A. Oliver*, Maggie M. Sweitzer, Bryana Roberts, Rachel E. Dew, F. Joseph McClemon

SYM10C: EFFECT OF GALANTAMINE ON COGNITION AND SMOKING ABSTINENCE IN TREATMENT-SEEKING SMOKERS USING A MEDICATION SCREENING PARADIGM
Rebecca L. Ashare*, E. Paul Wileyto, Erin Logue-Chamberlain, Frank Leone, Caryn Lerman, Heath Schmidt

SYM10D: LORCASERIN AND NICOTINE PATCH FOR SMOKING CESSATION AND AMELIORATION OF WEIGHT GAIN
Jed E. Rose*, James M. Davis

4:30 PM - 6:00 PM
Churchill (Second Floor)
Poster Session 2: Public Health (Session 1)

6:00 PM - 7:00 PM
Salon 3-6 (First Floor)
SRNT 2025 Town Hall Meeting (For Members Only)
7:00 PM - 8:00 PM
   Camp (Third Floor)
   **Trainee Network Roundtables**

8:00 PM - 9:00 PM
   St. James Ballroom (Third Floor)
   **Trainee Network Mixer**
7:15 AM - 5:00 PM
SRNT Central (First Floor)
Registration

7:30 AM - 5:00 PM
Burgundy Room (First Floor)
Speaker Ready Room

7:30 AM - 8:15 AM
Salon 3-6 (First Floor)
**SRNT Members Meeting** (Members only meeting. All members welcome)

8:15 AM - 8:30 AM
Break

8:30 AM - 10:00 AM
Salon 15-18 (First Floor)
**Podium Presentation 3: Paper Session 11**

**CARDIOPULMONARY EFFECTS OF ALTERNATIVE TOBACCO PRODUCTS: INSIGHTS FROM ANIMAL MODELS**
Chair: Fadi Khasawneh
Audience: PC

POD11-1: SHORT-TERM EXPOSURE TO WATERPIPE SMOKE TRIGGERS A HYPERACTIVE PLATELET ACTIVATION STATE AND INCREASES THE RISK OF THROMBOGENESIS
Ahmed B. Alarabi, Zubair A. KARIM, Jean Ramirez, Keziah R. Hernandez, Patricia A. Lozano, José O. Rivera, Fatima Z. Alshbool, Fadi T. Khasawneh*

POD11-2: IN VITRO AND IN VIVO PULMONARY TOXICITY OF INHALED OPEN AND CLOSED ELECTRONIC NICOTINE DELIVERY SYSTEMS (ENDS) AEROSOLS - THIRD-GENERATION ELECTRONIC-CIGARETTES AND JUUL
Alexandra Noel*, Ehktear Hossain, Rakeysha Pinkston, Zakia Perveen, Brittany Szafran, Barbara Kaplan, Arthur Penn

POD11-3: THE EFFECTS OF IN VIVO EXPOSURE TO EMISSIONS FROM E-CIGARETTE AEROSOLS CONTAINING NICOTINE SALTS ON PULMONARY INFLAMMATION AND DAMAGE
Yasmin Thanavala*, Tariq Bhat, Suresh G. Kalathil, Noel Leigh, Maciej L. Goniewicz

POD11-4: JUUL MODULATES PLATELET FUNCTION AND THROMBOGENESIS IN MICE
Jean Ramirez, Zubair A. Karim, Ahmed B. Alarabi, Keziah R. Hernandez, Jose O. Rivera, Fadi T. Khasawneh, Fatima Z. Alshbool*
GENETIC INFLUENCES ON NICOTINE DEPENDENCE

Chair: Mary Kautz
Audience: PC

POD12-1: GENE-ENVIRONMENT INTERACTION ANALYSIS REVEALS DIFFERENT GENETIC EFFECTS OF VARIANTS IN NICOTINE AND GLUTAMATE/GABA RECEPTORS ON DEPRESSION IN SMOKERS VERSUS NON-SMOKERS
Ming D. Li*, Wenyan Cui, Thomas Payne, Jennie Z. Ma

POD12-2: OVERLAPPING GWAS RESULTS FROM SOCIALY ACQUIRED NICOTINE SELF-ADMINISTRATION IN OUTBRED RATS AND HUMAN SMOKING
Tengfei Wang, Apurva Chitre, Oksana Polesskaya, Leah C. Solberg-Woods, Abraham A. Palmer, Hao Chen*

POD12-3: CONVERGENT FINDINGS FROM GENETIC AND FUNCTIONAL STUDIES IMPLICATE A CRITICAL ROLE OF RS148582811 INARVCFFOR NICOTINE DEPENDENCE
Zhongli Yang*, Jiali Chen, Yunlong Ma, Ming D. Li

POD12-4: ASSOCIATION BETWEEN GENETIC PREDISPOSITION TO INITIATE SMOKING AND EVER USE OF ELECTRONIC CIGARETTES
Jasmine N. Khouja*, Amy E. Taylor, Marcus R. Munafo

POD12-5: PLACEHOLDER TITLE
Andrew W. Bergen*, Sungshim L. Park, Christopher S. Mcmahan, Hilary A. Tindle, Matthew S. Freiburg, Quinn S. Wells, James W. Baurley

RAPID FIRE CESSATION CONSIDERATIONS FOR MEDICAL POPULATIONS

Chair: Erika Bloom
Audience: C, PH, P

POD13-1: DO TUBERCULOSIS PATIENTS WHO QUIT SMOKING HAVE BETTER CLINICAL OUTCOMES THAN THOSE WHO DON'T? EVIDENCE FROM A LARGE TWO COUNTRY RANDOMIZED CONTROLLED TRIAL
Kamran Siddiqi*, Ada Keding, Razia Fatima, Omara Dogar, Rumana Huque, Anna Marshall, Rhian Gabe, Amina Khan, Raana Zahid, Helen Elsey, Daniel Kotz, Aziz Sheikh

POD13-2: A MULTICENTER RANDOMIZED CONTROLLED TRIAL OF INTENSIVE GROUP THERAPY FOR TOBACCO CESSATION AMONG HIV-INFECTED CIGARETTE SMOKERS
Cassandra A. Stanton*, Ryung Kim, Princy Kumar, Alyson Moadel, Chinazo Cunningham, Jonathan Shuter
POD13-3: EXAMINING THE EFFECTIVENESS OF PRIMARY CARE PHYSICIAN PROMOTION OF ELECTRONIC CIGARETTES VERSUS STANDARD CARE FOR SMOKING REDUCTION AND ABSTINENCE IN HARDCORE SMOKERS WITH SMOKING-RELATED CHRONIC DISEASE: A RANDOMISED CONTROLLED TRIAL
Rachna Begh*, Tim Coleman, Lucy Yardley, Rebecca Barnes, Felix Naughton, Hazel Gilbert, Anne Ferrey, Claire Madigan, Nicola Williams, Louisa Hamilton, Yolanda Warren, Jenna Grabey, Miranda Clark, Anne Dickinson, Paul Aveyard

POD13-4: A PARADIGM SHIFT- POINT OF CARE SMOKING CESSEATION TREATMENT IMPROVES BOTH REACH AND EFFECTIVENESS
Alex Ramsey, Timothy Baker, Laura Bierut, Li-Shiun Chen*

POD13-5: ACHIEVING HEALTHY CANCER SURVIVORSHIP THROUGH INTEGRATED TOBACCO CONTROL: THE SMOKING TREATMENT AND RECOVERY (STAR) PROGRAM
Kathryn Taylor*, Shelby Fallon, Deepa Subramaniam, Kimberly Davis, Chan To, Tania Lobo, Kenneth Tercyak, Julia Friberg, Mara Tynan, Emily Russell, Waseem Ahmed, Mary Chris Ponder, Lisa Cusaac, Jillian Thompson, Kellie Gardner, Joan Breece, Chul Kim, Louis M. Weiner

POD13-6: ADDRESSING TOBACCO USE IN PRIMARY CARE - CLINICIANS’ PERCEPTIONS OF REFERRAL TO A STATE QUITLINE
Mark Zehner*, Stevens Smith, Rob Adsit, Marika Rosenblum, Danielle McCarthy, Allison Gorrilla, Amy Skora, Timothy Baker, Michael Fiore

POD13-7: INCREASING THE IMPACT OF FULL HEALTH INSURANCE COVERAGE OF SMOKING CESSEATION MEDICATION: A RANDOMIZED TRIAL OF THE PARTNERS IN HELPING YOU QUIT PROGRAM
Nancy A. Rigotti*, Jennifer H.K. Kelley, Susan Regan, Elizabeth M. Inman, Amy Flaster, Sree Chaguturu

8:30 AM - 10:00 AM
Grand Ballroom C (First Floor)
Podium Presentation 3: Paper Session 14

UNVAPING AMERICA’S YOUTH

Chair: Olivia Maynard
Audience: PH *

POD14-1: HELPING TEENS AND YOUNG ADULTS QUIT VAPING VIA SMS: EARLY EXPERIENCE WITH THIS IS QUITTING
Megan A. Jacobs*, Michael S. Amato, Amanda L. Graham

POD14-2: “BEING ADDICTED TO NICOTINE SUCKS:” REASONS FOR QUITTING VAPING AMONG TREATMENT SEEKING YOUNG PEOPLE
Michael S. Amato*, Sarah Cha, Mia M. Bottcher, Megan A. Jacobs, Jennifer L. Pearson, Amanda L. Graham
POD14-3: DEVELOPMENT AND SERVICE UTILIZATION FOR MY LIFE, MY QUIT YOUTH TOBACCO QUITLINE PROGRAM
Thomas Ylioja*, Bonnie Halpern-Felsher, Bobbi Sue Raber-Dessoulavy, Karen Logan, Zohar Gilboa, Cile Fisher, Katie Carradine, Tom Barker, Jennifer Johnson, Ann Vaughn

POD14-4: YOUTH TOBACCO CESSATION - THE US FOOD AND DRUG ADMINISTRATION'S RECENT EFFORTS TO DECREASE YOUTH USE
Dionna Green, Maryam Afshar, Carrie Bryant, Priscilla Callahan-Lyon*, Edward Connor, Karen Cullen, Elizabeth Durmowicz, Laura Gordon, Allison Hoffman, Christoph Hornik, Collin Hovinga, Stephen McConoughey, Susan McCune, Ililun Murphy, Kelley Nduom, Rachel Olson, Jennifer Pippins, Melissa Robb, Emily Talbert, Celia Winchell, Mitchell Zeller

POD14-5: ADOLESCENT E-CIGARETTE DEPENDENCE: PREVALENCE, SYMPTOM PRESENTATION, AND ASSOCIATION WITH FUTURE VAPING
Erin Vogel*, Junhan Cho, Rob McConnell, Jessica L. Barrington-Trimis, Adam Leventhal

8:30 AM - 10:00 AM
Salon 3-6 (First Floor)
Podium Presentation 3: Symposium 11

UNCOVERING THE ABUSE LIABILITY OF ELECTRONIC CIGARETTES: EMERGING EVIDENCE FROM PRE-CLINICAL MODELS

Chair: Anna Lee
Audience: PC

SYM11A: NICOTINE E-CIGARETTE VAPOR INHALATION EFFECTS ON NICOTINE & COTinine PLASMA LEVELS AND SOMATIC WITHDRAWAL SIGNS IN ADULT MALE WISTAR RATS
Christian Montanari*, Leslie Kelley, Maury Cole, Nicholas Gilpin

SYM11B: CELLULAR AND BEHAVIORAL CONSEQUENCES OF ACUTE EXPOSURE TO ELECTRONICALLY VAPORIZED NICOTINE IN ADULT MALE C57Bl6j MICE
Melissa Herman*, ManHua Zhu, Maury Cole, Amanda Roberts

SYM11C: ENHANCEMENT OF ELECTRONIC CIGARETTE LIQUID INTAKE BY SPECIFIC FLAVORS IN A MOUSE MODEL OF VOLUNTARY CONSUMPTION
Anna M. Lee*, Jenna Robinson, Alyssa Wong, Scott McElroy

SYM11D: EFFECTS OF E-CIGARETTE AEROSOL EXTRACT AND NICOTINE ALONE ON NICOTINE’S AVERSIVE AND REINFORCING EFFECTS IN ADOLESCENT RATS
Andrew Harris*, Peter Muelken, Yayi Swain, Mary Palumbo, Vipin Jain, Maciej L. Goniewicz, Irina Stepanov, Mark G. LeSage

Audience Key: PC: Pre-Clinical; C: Clinical; P: Policy; PH: Public Health; *: Conference Themed Session
8:30 AM - 10:00 AM
Grand Ballroom D (First Floor)
Podium Presentation 3: Symposium 12

FROM THEORY TO IMPLEMENTATION: MAKING MENTHOL BANS A REALITY

Chair: Andrea Villanti
Audience: C, PH, P

SYM12A: EVALUATING THE IMPACT OF MENTHOL CIGARETTE BANS ON CESSION AND SMOKING BEHAVIOURS IN CANADA: FINDINGS FROM THE 2016-18 ITC FOUR COUNTRY SMOKING AND VAPING SURVEYS
Janet Chung-Hall*

SYM12B: REASONS AND STRATEGIES FOR SMOKING CESSATION REPORTED BY FORMER MENTHOL SMOKERS AFTER IMPLEMENTATION OF A MENTHOL CIGARETTE BAN IN ONTARIO, CANADA
Eric Soule*

SYM12C: BAN ON MENTHOL-FLAVOURED TOBACCO PRODUCTS PREDICTS CIGARETTE CESSATION AT TWO YEARS: A POPULATION COHORT STUDY
Michael Chaiton*

SYM12D: THE EFFECTS OF IMMEDIATE VERSUS GRADUAL CIGARETTE NICOTINE REDUCTION AMONG MENTHOL AND NON-MENTHOL SMokers
Rachel Denlinger-Apte*

SYM12E: MODELING TOBACCO INDUSTRY RESPONSES TO MENTHOL CIGARETTE REGULATIONS
Michael Hayashi*, Alex Liber

SYM12F: SALES RESTRICTIONS SIGNIFICANTLY REDUCE THE AVAILABILITY OF MENTHOL TOBACCO IN MINNEAPOLIS AND ST. PAUL
Joanne D’Silva*, Joanne Moze, Chris Matter, Rebecca K. Lien, John H. Kingsbury, Betsy Brock, Antwi Akom

8:30 AM - 10:00 AM
Grand Ballroom B (First Floor)
Podium Presentation 3: Symposium 13

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

Chair: K. Michael Cummings
Audience: PH, P

SYM13B: CHEMICAL CHARACTERIZATION OF E-LIQUIDS AND DEVICE CHARACTERISTICS OF E-CIGARETTES ACROSS FOUR COUNTRIES

SYM13C: TRENDS IN VAPING AND JUUL USE AMONG YOUTH IN CANADA, UNITED STATES, AND ENGLAND: FINDINGS FROM THE ITC YOUTH TOBACCO & VAPING SURVEY

SYM13D: THE EXPERIMENTAL TOBACCO MARKETPLACE: ESTIMATING THE EFFECTS OF POLICY

SYM13E: A COMPARISON OF RECENT TRENDS IN SMOKING PREVALENCE USING THE CANADA, ENGLAND, AND US SIMSMOKE MODELS: THE POTENTIAL ROLE OF NICOTINE VAPING PRODUCTS
David Levy*

8:30 AM - 10:00 AM
Salon 13-16 (First Floor)
Podium Presentation 3: Symposium 14

NOVEL DIRECTIONS IN THE ASSESSMENT AND MANIPULATION OF CRAVING
Chair: Kasey G. Creswell
Audience: C

SYM14A: VISCERAL STATES CALL FOR VISCERAL MEASURES: ASSESSING CIGARETTE CRAVING WITH A SQUEEZE
Kasey G. Creswell*, Michael A. Sayette, Carillon J. Skrzynski

SYM14B: THE IMPACT OF PLEASANT OLFACTORY CUES ON CIGARETTE CRAVINGS
Michael A. Sayette*

SYM14C: CIGARETTE CRAVING AFTER PASSIVE EXPOSURE TO E-CIGARETTES ACROSS THE 1st, 2nd, 3rd, AND 4th GENERATION DEVICES
Andrea C. King*, Krista Miloslavich, Dingcai Cao

Audience Key: PC: Pre-Clinical; C: Clinical; P: Policy; PH: Public Health; *: Conference Themed Session
SYM14D: LOOKING AHEAD: THE POTENTIAL OF COMPUTER-MEDIATED REALITY FOR THE ASSESSMENT AND MANIPULATION OF CRAVING
Thomas H. Brandon*, Christine E. Vinci, Karen O. Brandon, Marloes Kleinjan

8:30 AM - 10:00 AM
Salon 21-24 (First Floor)
Podium Presentation 3: Symposium 15

UNDERSTANDING TOBACCO USE PATTERNS AND DETERMINANTS IN SEXUAL AND GENDER MINORITY YOUTH
Chair: Sharon Lipperman-Kreda
Audience: PH *

SYM15A: PREVALENCE OF TOBACCO USE AMONG SEXUAL AND GENDER MINORITY YOUTH
Bridget M. Hyland*, Danielle Smith, Karin Kasza, Andrew Hyland, Amanda J. Quisenberry

SYM15B: TOBACCO PRODUCT USE AND SUSCEPTIBILITY IN SEXUAL MINORITY VERSUS HETEROSEXUAL ADOLESCENTS
Luis C. Garcia*, Erin Vogel, Priya Fielding-Singh, Judith J. Prochaska

SYM15C: DIFFERENCES IN TOBACCO PRODUCT USE BY SEXUAL ORIENTATION AND VIOLENCE FACTORS AMONG U.S. YOUTH
Ariella R. Tabaac*, Brittany M. Charlton, Andy Tan, Caroline O. Cobb, Megan E. Sutter

SYM15D: FAMILY REJECTION AND CIGARETTE SMOKING AMONG SEXUAL AND GENDER MINORITY YOUTH
Kristi E. Gamarel*, Ryan J. Watson, Raha L. Mouzoon, Christopher W. Wheldon, Jessica N. Fish, Nancy L. Fleischer

SYM15E: MEASURING MOMENTARY MINORITY STRESS AMONG SEXUAL AND GENDER MINORITY YOUTH WHO USE NICOTINE: AN ECOLOGICAL MOMENTARY ASSESSMENT STUDY
Ethan H. Mereish*, Hayley Treloar Padovano, Brianna Parlette, Brianna Parlette, Robert Miranda Jr.

8:30 AM - 10:00 AM
Salon 9-12 (First Floor)
Podium Presentation 3: Symposium 16

WARNING: WATERPIPE TOBACCO CONTAINS MORE THAN NICOTINE
Chair: Amy Ferketich
Audience: PH, P *

SYM16A: PERCEIVED EFFECTIVENESS AND REACTANCE IN RESPONSE TO HEALTH WARNINGS FOR WATERPIPE TOBACCO
Megan E. Roberts*
SYM16B: REACTIONS TO WATERPIPE TOBACCO TEXT WARNINGS AMONG WATERPIPE TOBACCO SMOKERS AND SUSCEPTIBLE NON-SMOKERS
Isaac M. Lipkus*

SYM16C: AN EXPERIMENTAL STUDY OF WATERPIPE WARNING STATEMENTS AMONG A NATIONAL SAMPLE OF U.S. YOUNG ADULTS
Erin L. Suffin*

SYM16D: VISUAL ATTENTION TO HEALTH WARNING LABEL PLACEMENT ON WATERPIPE DEVICES
Elizabeth G. Klein*

SYM16E: I READ THE TEXT ONLY SO I DON’T HAVE TO LOOK AT THE PICTURE- FEEDBACK FROM YOUTH ON WATERPIPE TOBACCO SMOKING PRODUCT HEALTH WARNING LABELS
Sara Chehab*, Rima Nakkash, Taghrid Asfar, Wassim Maziak

SYM16F: RESULTS OF A SINGLE ARM PILOT STUDY OF A MOBILE MESSAGING INTERVENTION FOR HOOKAH TOBACCO CESSATION IN YOUNG ADULTS
Darren Mays*, Lilianna Phan, Andrea C. Johnson, Kenneth Tercyak, Kylie Snow, George Luta, Kathryn Rehberg, Isaac Lipkus

9:30 AM - 3:00 PM
SRNT Central (First Floor)
Exhibits Open

10:00 AM - 10:30 AM
SRNT Central (First Floor)
Refreshment Break & Exhibitor Time
Bark Break (To support the Louisiana SPCA!)

10:30 AM - 11:30 AM
Grand Ballroom B (First Floor)
Clinical Keynote Plenary
Smoking Cessation: The Challenge of Implementation
Session Chair: Jamie Brown, PhD
Presenter: Paul Aveyard, PhD, Professor of Behavioural Medicine, Nuffield Department of Primary Care Health Sciences, University of Oxford, Oxford, UK

11:30 AM - 1:00 PM
Churchill (Second Floor)
Poster Session 3: Clinical

Audience Key: PC: Pre-Clinical; C: Clinical; P: Policy; PH: Public Health; *: Conference Themed Session
11:30 AM - 1:00 PM
Churchill (Second Floor)
Lunch Break (Boxed Lunches Provided)
Bark Break (To support the Louisiana SPCA!)

1:00 PM - 1:30 PM
Grand Ballroom B (First Floor)
**Jarvik-Russell New Investigator Keynote Plenary and Recipient of the 2020 Jarvik-Russell Award**
**Science to Inform Tobacco Product Regulation**
*Session Chair:* Andrea Villanti, PhD
*Presenter:* Tracy Smith, PhD, Assistant Professor, Addiction Sciences Division, Department of Psychiatry and Behavioral Sciences, Medical University of South Carolina, Research Member, Cancer Control and Prevention, Hollings Cancer Center, Charleston, SC

1:30 PM - 2:45 PM
Grand Ballroom B (First Floor)
**Policy Keynote Plenary**
**Overview of the 2019 U.S. Surgeon General’s Report on Cessation**
*Guest Plenary Speaker:* VADM Jerome M. Adams, MD, MPH, United States Surgeon General, Washington, DC, USA
*Chair:* Brian King
*Audience:* P *

S14-4: FINDINGS FROM THE SURGEON GENERAL’S REPORT ON CESSATION: HISTORICAL BACKGROUND AND PATTERNS OF CESSATION

S14-5: FINDINGS FROM THE SURGEON GENERAL’S REPORT ON CESSATION: BIOLOGICAL INSIGHTS
Jennifer Unger, Gillian L. Schauer, Rachel A. Grana, Leslie Norman, Brian A. King, Jonathan M. Samet

S14-6: FINDINGS FROM THE SURGEON GENERAL’S REPORT ON CESSATION: HEALTH AND ECONOMIC BENEFITS
Jonathan M. Samet, Jennifer Unger, Gillian L. Schauer, Leslie Norman, Brian A. King, Rachel A. Grana

S14-7: FINDINGS FROM THE SURGEON GENERAL’S REPORT ON CESSATION: CLINICAL AND POPULATION BASED INTERVENTIONS
Rachel A. Grana, Jonathan M. Samet, Jennifer Unger, Leslie Norman, Brian A. King, Gillian L. Schauer
2:45 PM - 3:00 PM
  SRNT Central (First Floor)
  Refreshment Break & Exhibitor Time (Last Day)

3:00 PM - 4:30 PM
  Grand Ballroom C (First Floor)

  Chair: Andrew Hyland
  Audience: PH, P *

  Andrew Hyland*, Heather L. Kimmel, Nicolette Borek

  POD15-2: ASSESSING LIFETIME USE THRESHOLDS OF TOBACCO PRODUCTS ON FUTURE USE, POPULATION ASSESSMENT OF TOBACCO AND HEALTH (PATH) STUDY, 2013-2017
  Andrew Hyland*

  Kathryn Edwards*, Tasmia Naz, Cassandra A. Stanton, Maciej Goniewicz, Dorothy Hatsukami, Danielle Smith, Lanquing Wang, Andrea Villanti, Jenni Pearson, Benjamin Bount, Maansi Bansal Travers, June Feng, Raymond Niaura, Michelle Manderski Bover, Connie Sosnoff, Cris Delnevo, Kara Duffy, Arseima Y. Del Valle-Pinero, Brian Rostron, Colm Everard, Heather L. Kimmel, Dana van Bemmelen, Andrew Hyland

3:00 PM - 4:30 PM
  Salon 21-24 (First Floor)
  Podium Presentation 4: Paper Session 16
  ENDS: TOOLS AND ADDITIONAL CONSIDERATIONS FOR REGULATION

  Chair: Melissa Blank
  Audience: PC

  POD16-1: INTEGRATED TEST-PLATFORM FOR REAL-TIME ASSESSMENT OF THE ENDS EMISSIONS
  Vladimir Mikheev*, Stephanie Buehler, Alexander Ivanov

  POD16-2: NICOTINE FLUX, A POTENTIALLY POWERFUL TOOL FOR ELECTRONIC CIGARETTE REGULATION
  Alan Shihadeh*, Thomas Eissenberg

Audience Key: PC: Pre-Clinical; C: Clinical; P: Policy; PH: Public Health; *: Conference Themed Session
POD16-3: LIMITING ELECTRONIC CIGARETTE LIQUID NICOTINE CONCENTRATION MAY HAVE ADVERSE HEALTH EFFECTS
Rola Salman, Rachel El Hage, Sally Salam, Soha Talih*, Nareg Karaoghlanian, Ahmad El Hellani, Thomas Eissenberg, Najat Saliba, Alan Shihadeh

POD16-4: HEAT FLUX, A SIMPLE POWERFUL PREDICTOR OF HIGH CARBONYL EMISSIONS FROM ELECTRONIC CIGARETTES
Soha Talih*, Rola Salman, Ebrahim Talih, Nareg Karaoghlanian, Alan Shihadeh

3:00 PM - 4:30 PM
Salon 19-22 (First Floor)
Podium Presentation 4: Paper Session 17

ESTIMATING THE HEALTH IMPACTS OF TOBACCO USE
Chair: Lion Shahab
Audience: PH

POD17-1: UPDATING THE GLOBAL BURDEN OF DISEASE ATTRIBUTABLE TO SMOKING USING DIRECT ESTIMATION METHODS - A SYSTEMATIC ANALYSIS OF 195 COUNTRIES AND 38 HEALTH OUTCOMES
Marissa B. Reitsma*, Emmanuela Gakidou, on behalf of GBD Tobacco Collaborators

POD17-2: MODELING MORTALITY RISK EFFECTS OF CIGARETTES AND SMOKELESS TOBACCO IN CURRENT AND FORMER USERS, RESULTS FROM THE NHIS 2015 LINKED MORTALITY FILE DATA
Esther Salazar, Chunfeng Ren*, Brian Rostron

POD17-3: STOP: A NOVEL MICROSIMULATION MODEL OF TOBACCO AND NICOTINE USE BEHAVIORS AND OUTCOMES

POD17-4: A MAGIC BULLET? THE POTENTIAL OF E-CIGARETTES TO DIMINISH THE MORTALITY TOLL OF CIGARETTE SMOKING
David Mendez*, Kenneth Warner

3:00 PM - 4:30 PM
Grand Ballroom B (First Floor)
Podium Presentation 4: Paper Session 18

MULTIDISCIPLINARY RESEARCH ON NICOTINE EXPOSURE DURING THE PRENATAL PERIOD
Chair: Carolyn Reyes-Guzman
Audience: PC, C, PH, P *
POD18-1: ADDICTION POTENTIAL OF CIGARETTES WITH REDUCED NICOTINE CONTENT IN PREGNANT WOMEN

POD18-2: IN SILICO SIMULATIONS FOR NICOTINE EFFECTS ON THE CARDIOVASCULAR SYSTEM OF FETUSES
Harvey Ho*, Jing Tang

POD18-3: THIRDHAND SMOKE CONTAMINATION IN A NEONATAL INTENSIVE CARE UNIT
Thomas F. Northrup*, Angela Stotts, Robert Suchting, Charles Green, Amir Khan, Eunha Hoh, Melbourne F. Hovell, Penelope J.E. Quintana, Georg E. Matt

POD18-4: MODELING ETIOLOGY OF SMOKING DURING PREGNANCY IN SWEDISH TWINS, FULL- & HALF-SIBLINGS, REARED TOGETHER AND APART.
Hermine H. Maes*, Michael C. Neale, Sara Larsson Lonn, Jan Sundquist, Kristina Sundquist, Kenneth S. Kendler

POD18-5: BIRTH OUTCOMES ASSOCIATED WITH E-CIGARETTE AND NON-E-CIGARETTE TOBACCO PRODUCT USE DURING PREGNANCY: AN EXAMINATION OF PATH DATA WAVES 1 THROUGH 3
Amy Cohn*, Amanda L. Johnson, Haneen S. Abudayyeh, Allison Kurti, Victoria Coleman-Cowger

3:00 PM - 4:30 PM
Salon 13-16 (First Floor)
Podium Presentation 4: Paper Session 19
MARKET AND SALES IMPACTS ON FLAVORED NICOTINE USE
Chair: Michael Chaiton
Audience: PH, P *


POD19-2: ASSOCIATION OF “FLAVORS,” “AFFORDABILITY,” AND “PROMOTIONS” AS REASONS TO USE CIGARS ON SUSTAINED CIGAR USE AMONG YOUNG PEOPLE (15-24 YEARS-OLD) IN THE US
Lauren Czaplicki*

POD19-3: INEQUITABLE DISTRIBUTION OF FLAVORED TOBACCO PRODUCT MARKETING BY NEIGHBORHOOD CHARACTERISTICS: EVIDENCE FOR TARGETED MARKETING?
Shyanika W. Rose*
POD19-4: THE IMPACT OF POINT OF SALE FLAVOURED TOBACCO RESTRICTIONS AND PRICE DISCOUNTING ON YOUTH TOBACCO USE  
*Deborah N. Pearlman*, Geri Guardino

POD19-5: USING THE EXPERIMENTAL TOBACCO MARKETPLACE TO ASSESS POTENTIAL EFFECTS OF A MENTHOL CIGARETTE BAN ON ALTERNATIVE TOBACCO PRODUCT PURCHASING  
*Rachel L. Denlinger-Apte*

POD19-6: SALES OF TOBACCO-DERIVED NICOTINE POUCHES, UNITED STATES, 2016-2018  
*Kristy Marynak*, Yoonsang Kim, Steven Binns, Glen Sczcypka, Michael Tynan, Brian A. King

3:00 PM - 4:30 PM  
Salon 9-12 (First Floor)  
**Podium Presentation 4: Symposium 17**

**EMERGING NON-COMBUSTIBLE NICOTINE AND TOBACCO PRODUCTS: A GLOBAL POLICY PERSPECTIVE (ON BEHALF OF SRNT UNIVERSITY)**  
*Chair: Paula Keller  
Audience: PH, P*

SYM17A: A SNAPSHOT OF COUNTRY-LEVEL POLICIES THAT REGULATE NON-COMBUSTIBLE NICOTINE DELIVERY SYSTEMS INCLUDING E-CIGARETTES AND HEATED TOBACCO PRODUCTS  
*Ryan David Kennedy*

SYM17B: ENGLAND’S APPROACH TO E-CIGARETTES AND HEATED TOBACCO PRODUCTS: MANAGING RISKS AND BENEFITS  
*Ann McNeill*

SYM17C: THE PLACE OF NON-COMBUSTIBLE ALTERNATIVE NICOTINE DELIVERY SYSTEMS (ANDS) AND DEVELOPMENTS IN REGULATION IN AN ENDGAME CONTEXT: THE NEW ZEALAND EXPERIENCE  
*Richard Edwards*

SYM17D: THE USA’S UNIQUE REGULATORY FRAMEWORK FOR ANDS: HELP OR HINDRANCE FOR HARM REDUCTION & TOBACCO CONTROL?  
*Eric Lindblom*

SYM17E: TRANSITIONS IN SMOKING AND VAPEING OVER 18 MONTHS. LONGITUDINAL FINDINGS FROM THE ITC FOUR COUNTRY SMOKING AND VAPEING COHORT SURVEY  
*Shannon Gravely*

SYM17F: *Discussant  
*Joanna Cohen*
3:00 PM - 4:30 PM
Salon 3-6 (First Floor)
**Podium Presentation 4: Symposium 18**

**NOVEL DESIGN AND ANALYSIS IN MOBILE HEALTH STUDIES FOR SMOKING CESSATION**

*Co-Chairs:* Roger Vilardaga, and Kathleen A. Garrison  
*Audience:* C, PH

**SYM18A:** A QUALITATIVE REVIEW OF MOBILE APPLICATIONS FOR SMOKING CESSATION  
*Kathleen A. Garrison*, Roger Vilardaga, Elisabet Casellas-Pujol, Joseph F. McClernon

**SYM18B:** JUST-IN-TIME ADAPTIVE INTERVENTIONS IN MOBILE HEALTH  
*Marianne Menictas*, Susan A. Murphy

**SYM18C:** A MACHINE LEARNING APPROACH TO IDENTIFYING RESPONSE FATIGUE AND NON-COMPLIANCE IN ECOLOGICAL MOMENTARY ASSESSMENT  
*Emily T. Hébert*, Ashley J. Mathews, Daryl W. Geller, Akshay Gaur, Summer G. Frank-Pearce, Michael S. Businelle, Darla E. Kendzor

**SYM18D:** A PRECISION MEDICINE APPROACH TO MOBILE HEALTH DELIVERY USING A NOVEL MACHINE LEARNING RECOMMENDER SYSTEM  
*Matthew Engelhard*

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3:00 PM - 4:30 PM
Salon 15-18 (First Floor)
**Podium Presentation 4: Symposium 19**

**FIRST EVER SYMPOSIUM ON PACK INSERTS PROMOTING CESSATION**

*Chair:* Stuart Ferguson  
*Audience:* C, P

**SYM19A:** A QUALITATIVE STUDY OF SMOKERS’ RESPONSES TO CIGARETTE PACK INSERTS: EVIDENCE FROM AUSTRALIA  
*Emily Brennan*, Sarah Durkin, Michael Murphy, Cathy Segan, Amy Collie, Melanie Wakefield

**SYM19B:** THE EFFECTS OF CIGARETTE PACK INSERTS WITH EFFICACY MESSAGES ON RESPONSES TO HEALTH WARNINGS  
*Olivia Maynard*, Marcus Munafo, Marissa Hall, Stuart Ferguson

**SYM19C:** HOW CAN CIGARETTE PACKAGE INSERTS PROMOTE SMOKING CESSATION? TESTING MEDIATION IN AN ECOLOGICAL MOMENTARY ASSESSMENT STUDY  
*James Thrasher*, Yoojin Cho, Victoria Lambert, Jeff Niederpeppe, David Hammond, Stuart Ferguson

**SYM19D:** THE RESPONSE OF SMOKERS TO PACK INSERTS PROMOTING CESSATION: A NATURALISTIC STUDY IN SCOTLAND  
*Crawford Moodie*, Anne Marie Mackintosh, Nathan Critchlow, Olivia Maynard, Anna Blackwell

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**Audience Key:** PC: Pre-Clinical; C: Clinical; P: Policy; PH: Public Health; *: Conference Themed Session
3:00 PM - 4:30 PM
Grand Ballroom D (First Floor)
Podium Presentation 4: Symposium 20

THE IMPORTANCE OF YOUTH PERCEPTION RESEARCH IN PREMARKET TOBACCO PRODUCT (PMTA) AND MODIFIED RISK TOBACCO PRODUCT (MRTP) APPLICATIONS

Chair: Dennis Henigan
Audience: P *

SYM20A: YOUTH PERCEPTION RESEARCH AND THE PUBLIC HEALTH STANDARD AT FDA
Dennis Henigan*

SYM20B: CONSIDERATIONS FOR ETHICAL INVESTIGATIONS INTO YOUTH PERCEPTIONS OF TOBACCO PRODUCTS
Suchitra Krishnan-Sarin*

SYM20C: YOUTH PERCEPTIONS OF IQOS MARKETING: IMPLICATIONS FOR REGULATION OF NOVEL TOBACCO PRODUCTS
Karma MCKELVEY*, Bonnie Halpern-Felsher

SYM20D: MECHANISMS FOR PRODUCING AND CORRECTING TOBACCO PRODUCT MISINFORMATION CREATED BY ADVERTISING
Joseph NICHOLAS Cappella*, Stefanie Gratale

3:00 PM - 4:30 PM
Salon 7-10 (First Floor)
Podium Presentation 4: Symposium 21

OPTIMIZING THE DELIVERY AND EFFICACY OF TOBACCO USE TREATMENT FOR PEOPLE WITH PSYCHIATRIC COMORBIDITIES

Co-Chairs: Erin S. Rogers, and Shadi Nahvi
Audience: C

SYM21A: TOBACCO SCREENING AND TREATMENT OF PATIENTS WITH A PSYCHIATRIC DIAGNOSIS, 2012–2015
Erin S. Rogers*, Christina Wysota

SYM21B: USING FINANCIAL INCENTIVES TO REDUCE CIGARETTE SMOKING AMONG CLIENTS OF A COMMUNITY-BASED MENTAL HEALTH CENTER: A PILOT STUDY
Jon T. Macy*, Madison Walker, Catherine L. Jones, Jessica Mitroi, Matthew J. Hanauer

SYM21C: A RANDOMIZED CONTROLLED TRIAL OF A SUSTAINED CAREcessation INTERVENTION
SYM21D: SIMULATING THE POTENTIAL IMPACT OF WIDESPREAD CESSATION TREATMENT FOR SMOKERS WITH DEPRESSION
Jamie Tam*, Rafael Meza

4:30 PM - 6:00 PM
Churchill (Second Floor)
Poster Session 4: Public Health (Session 2)
SATURDAY, MARCH 14, 2020

8:00 AM - 12:15 PM
SRNT Central (First Floor)
Registration

8:00 AM - 11:00 AM
Burgundy Room (First Floor)
Speaker Ready Room

8:30 AM - 10:00 AM
Salon 13-16 (First Floor)
Rapid Response Session- Pre-Clinical
Session Chair: Gideon St.Helen
(NOTE: The Rapid Response Paper Sessions titles and abstracts for these sessions are available in the Rapid Response Abstract Book and/or the SRNT Mobile App.)

Salon 7-10 (First Floor)
Rapid Response Session- Policy
Session Chair: Andrea Villanti
(NOTE: The Rapid Response Paper Sessions titles and abstracts for these sessions are available in the Rapid Response Abstract Book and/or the SRNT Mobile App.)

8:30 AM - 10:00 AM
Salon 15-18 (First Floor)
Podium Presentation 5: Paper Session 20
ADVANCING OUR UNDERSTANDING OF NICOTINE SELF-ADMINISTRATION
Chair: Brandon Henderson
Audience: PC

POD20-1: NICOTINE VAPOR SELF ADMINISTRATION: DEVELOPMENT AND VALIDATION OF A NOVEL PROCEDURE IN RODENTS
Valeria Lallai*, Angelique Nicole Cortez, Christie Fowler

POD20-2: THE RELATIVE IMPACT OF ACUTE NICOTINE AND TOBACCO ADMINISTRATION ON CRAVING, WITHDRAWAL AND CIGARETTE-SELF ADMINISTRATION IN DEPENDENT AND NONDEPENDENT SMOKERS.
Toni Spinella, Sean Barrett, Hera E. Schlagintweit*

POD20-3: COTININE PRODUCES REINFORCING EFFECTS IN WISTAR RATS
Zheng-Ming Ding*, Yong Gao, Xiaoying Tan, Alena Sentir

Audience Key: PC: Pre-Clinical; C: Clinical; P: Policy; PH: Public Health; *: Conference Themed Session
POD20-4: NICOTINE INDUCES DIFFERENTIAL MOLECULAR AND CELLULAR LEVEL STRUCTURAL CHANGES ACROSS DIFFERENT BRAIN REGIONS
Chris Richards*

8:30 AM - 10:00 AM
Grand Ballroom B (First Floor)
Podium Presentation 5: Paper Session 21

VAPING AND LUNG HEALTH: CONTEXT FOR THE LUNG INJURY EPIDEMIC
Chair: Bob Vollinger
Audience: PC, C, PH, P

POD21-1: USER-IDENTIFIED NEGATIVE RESPIRATORY SYMPTOMS ASSOCIATED WITH ELECTRONIC CIGARETTE USE
Eric Soule*, Kendall Bode, Abigail Desrosiers, Mignonne Guy, Alison Breland, Pebbles Fagan

POD21-2: CHANGE IN PREVALENCE OF USING MARIJUANA IN AN E-CIGARETTE: DATA FROM CALIFORNIA
Adam Geoffrey Cole*, Yuelin Zhuang, Katherine Braden, Shu-Hong Zhu

POD21-3: TOBACCO USE AND RESPIRATORY SYMPTOMS AMONG US ADULTS: FINDINGS FROM THE POPULATION ASSESSMENT OF TOBACCO AND HEALTH STUDY

POD21-4: ASSOCIATION OF ASTHMA-RELATED PRODUCTIVITY LOSS WITH CIGARETTE SMOKING AND ELECTRONIC NICOTINE PRODUCT USE AMONG YOUTH IN U.S.
Tingting Yao*, Hai-Yen Sung, Shannon Lea Watkins, Yingning Wang, James Lightwood, Wendy Max

8:30 AM - 10:00 AM
Grand Ballroom D (First Floor)
Podium Presentation 5: Paper Session 22

THE CO-USE OF CANNABIS AND TOBACCO: BIOMARKERS AND BEHAVIOR
Chair: Carla Berg
Audience: C, PH

POD22-1: CIGARETTE SMOKERS, MARIJUANA SMOKERS, CO-USERS - EXPOSURE TO TOXICANTS
Ellen M. Meier*, Katelyn Tessier, Xianghua Lou, Sharon Murphy, Stephen Hecht, Dorothy Hatsukami

POD22-2: BIOMARKERS OF EXPOSURE TO NICOTINE AND TOBACCO-SPECIFIC NITROSAMINES IN ADOLESCENT BLUNT USERS
Natalie Nardone*, Shonul Jain, Neal Benowitz
POD22-3: IMPACT OF SMOKED CANNABIS ON TOBACCO CIGARETTE SMOKING INTENSITY AND SUBJECTIVE EFFECTS
Erica N. Peters*, Evan Herrmann, Carson Smith, Jess Wilhelm, Bartosz Koszowski, Matthew Halquist, Leon Kosmider, Justin Poklis, Sage Roth, Stephan Bart, Wallace Pickworth

POD22-4: BLUNT VS. NON-BLUNT CIGAR USE IN AFRICAN AMERICAN YOUNG ADULTS WHO ALSO SMOKE CIGARETTES: A MIXED METHODS ECOLOGICAL MOMENTARY ASSESSMENT
Erin L. Mead*, Joseph Carbonaro, Samantha Avery, Julia Cen Chen-Sankey, Thomas Kirchner, Kelvin Choi, Robert H. Feldman

POD22-5: INITIATION, AND INTENTION TO QUIT LITTLE CIGARS AND CIGARILLOS AND BLUNT USE AMONG MINORITY YOUNG AND MIDDLE-AGED ADULT POPULATION
Pratibha Nayak*, Kymberle Sterling

8:30 AM - 10:00 AM
Salon 9-12 (First Floor)
Podium Presentation 5: Paper Session 23
DESCRIPTORS, CLAIMS, AND COLORS AFFECT CONSUMER PERCEPTIONS
Chair: Olivia Wackowski
Audience: PH, P *

POD23-1: ADOLESCENTS’ HEALTH PERCEPTIONS OF NATURAL AMERICAN SPIRIT’S ON-THE-PACK PRO-ENVIRONMENT CAMPAIGN
Anna E. Epperson*, Samantha Wong, Eric F. Lambin, Lisa Henriksen, Michael Baiocchi, June A. Flora, Judith Prochaska

POD23-2: YOUNG ADULTS’ PREFERENCE FOR LITTLE CIGARS AND CIGARILLOS IN RESPONSE TO PACKAGING FEATURES, A DISCRETE CHOICE EXPERIMENT
Ce Shang*, James Nonnemaker, Scott R. Weaver, Jessica Pikowski, Kymberle L. Sterling

POD23-3: CONSUMER PERCEPTIONS OF HEALTH CLAIMS MADE IN VAPE SHOPS
Kimberly G. Wagoner*, Micah Berman, Beth Reboussin, Jennifer Cornacchione Ross, Tanha Patel, Erin Suffin

Shu-Hong Zhu*, Shiushing Wong, Yue-Lin Zhuang, Jessica Y. Sun, Anthony C. Gamst

Jennifer Pearson*, Amanda Johnson, Olivia Wackowski, Cristine Delnevo, Jane Lewis

Audience Key: PC: Pre-Clinical; C: Clinical; P: Policy; PH: Public Health; *: Conference Themed Session
8:30 AM - 10:00 AM
Salon 21-24 (First Floor)
Podium Presentation 5: Paper Session 24

BACK TO BASICS: CRAVING, STRESS, WITHDRAWAL, AND REWARD
Chair: Amanda Quisenberry
Audience: C

POD24-1: CUE REACTIVITY AND CRAVING: EVIDENCE FROM A META-ANALYSIS OF CLINICAL OUTCOMES AND A META-ANALYSIS OF NEUROIMAGING STUDIES
Hedy Kober*

POD24-2: MODELING THE EFFECTS OF AN ACUTE PSYCHOLOGICAL STRESSOR ON VAPE LAPSE BEHAVIOR
Irene Pericot-Valverde*, Diann E. Gaalema

POD24-3: NICOTINE’S DOSE-DEPENDENT REINFORCEMENT ENHANCING EFFECTS MAY DIFFER DUE TO TYPE OF AVAILABLE NON-DRUG REWARD
Kenneth A. Perkins*, Joshua L. Karelitz

POD24-4: TIME-VARYING RELATIONS OF OPTIMIZED SMOKING TREATMENT WITH KEY WITHDRAWAL SYMPTOMS EARLY IN THE CESSATION PROCESS
Nayoung Kim*, Danielle E. McCarthy, Jessica W. Cook, Megan E. Piper, Tanya R. Schlam, Michael C. Fiore, Timothy B. Baker

POD24-5: SITUATIONAL FACTORS ASSOCIATED WITH INTERMITTENT SMOKERS’ TEMPTATIONS TO SMOKE AND LAPSES DURING QUITTING
Saul Shiffman*, Sarah M. Scholl, Jason M. Mao, Stuart G. Ferguson, Donald Hedeker, Hilary A. Tindle

8:30 AM - 10:00 AM
Grand Ballroom C (First Floor)
Podium Presentation 5: Paper Session 25

ROLE OF E-LIQUID PH AND FLAVORS ON NICOTINE INTAKE
Co-Chairs: Caroline Cobb, and Soha Talih
Audience: PC

POD25-1: NICOTINE ABSORPTION PROFILE AMONG REGULAR JUUL USERS
Jessica Yingst*, Shari Hrabovsky, Andrea Hobkirk, Neil Trushin, John P. Richie Jr, Jonathan Foulds

POD25-2: EFFECT OF PH OF THE NICOTINE LIQUID ON JUUL PUFFING BEHAVIOR AND NICOTINE UPTAKE
POD25-3: THE EFFECTS OF INHALED FLAVORS ON INTRAVENOUSLY ADMINISTERED NICOTINE  
*Mehmet Sofuoglu*, MacKenzie Peltier, Ralitza Gueorguieva

POD25-4: APPEAL, SUBJECTIVE EFFECTS, AND RELATIVE REINFORCING EFFECTS OF JUUL THAT VARY IN FLAVOR AND NICOTINE CONTENT  
*Lauren R. Pacek*, Rachel V. Kozink, Christiane E. Carson, Joe McClernon

POD25-5: INFLUENCE OF TOBACCO AND E-CIGARETTE FLAVORS ON INTRAVENOUS NICOTINE SELF-ADMINISTRATION IN RATS.  
*Matthew Palmatier*, Chloe Tres Majors, Dustin C. Harryman, Julie A. Marusich

**8:30 AM - 10:00 AM**
 Salon 19-22 (First Floor)
 **Podium Presentation 5: Symposium 22**

FDA’S TOBACCO PRODUCT APPLICATION REVIEW: SCIENCE & REGULATORY DECISION MAKING

*Co-Chairs:* Thomas J. Glynn, and Priscilla Callahan-Lyon  
*Audience:* P

**SYM22A:** TOBACCO PRODUCT REVIEW AND POPULATION HEALTH STANDARD  
*Priscilla Callahan-Lyon*

**SYM22B:** USE OF PRODUCT SCIENCE AND NONCLINICAL DATA TO INFORM TOBACCO PRODUCT REVIEW AND REGULATION  
*Mayo J. Wright*

**SYM22C:** EVALUATION OF TOBACCO PRODUCT PERCEPTION AND INTENTION DATA TO INFORM TOBACCO PRODUCT REVIEW  
*David B. Portnoy*

**SYM22D:** RATIONALE AND APPROACH TO PRODUCT ADVERTISING AND MARKETING RESTRICTIONS  
*Emily C. Talbert*

**8:30 AM - 10:00 AM**
 Salon 3-6 (First Floor)
 **Podium Presentation 5: Symposium 23**

DIGITAL THERAPEUTICS: SCIENCE IS GOOD BUT IMPACT IS BETTER

*Chair:* Kevin M. Walton  
*Audience:* C, PH

**SYM23A:** A SMARTPHONE-SMARTCARD IMPLEMENTATION OF CONTINGENCY MANAGEMENT FOR SMOKING CESSATION  
*David R. Gastfriend*, Allison N. Kurti, Stephen T. Higgins

**Audience Key:** PC: Pre-Clinical; C: Clinical; P: Policy; PH: Public Health; *: Conference Themed Session
SYM23B: 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

SYM23C: 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, Roger Vilardaga

SYM23D: REGULATION OF MEDICAL DEVICES IN A DIGITAL HEALTH ERA
John Marler*

10:00 AM - 10:30 AM
SRNT Central (First Floor)
Refreshment Break

10:00 AM - 10:30 AM
Trafalgar (Third Floor)
Meet-the-Editor Session
Editor-in-Chief: Marcus Munafò, PhD
Nicotine and Tobacco Research Journal

10:30 AM - 12:00 PM
Salon 21-24 (First Floor)
Podium Presentation 6: Paper Session 28
NICOTINE REWARD: ROLE OF NON-NICOTINIC PATHWAYS
Chair: Paul Harrell
Audience: PC

POD28-1: TOBACCO FLAVORS ENHANCE NICOTINE REWARD BY ALTERING VTA DOPAMINE NEURONS
Brandon Henderson*, Skylar Y. Cooper, Austin T. Akers

POD28-2: ROLE OF MONOACYLGLYCEROLE LIPASE (MAGL) IN NICOTINE DEPENDENCE: ANIMAL AND HUMAN STUDIES
M. Imad Damaj*, Aron H. Lichtman

POD28-3: APPETITIVE CONDITIONING WITH THE STIMULUS EFFECTS OF NICOTINE ENHANCES SUBSEQUENT NICOTINE SELF-ADMINISTRATION IN RATS
Allissa Flynn*, Scott Barrett, Anthony Raimondi, Andrew Finkner, Wendy Huynh, Brady Thompson, Rick Bevins
POD28-4: DIFFERENTIAL EFFECTS OF NICOTINE EXPECTANCY, ADMINISTRATION, CRAVING, AND WITHDRAWAL ON RESTING STATE FUNCTIONAL CONNECTIVITY BETWEEN THE INSULA AND NUCLEUS ACCUMBENS
Sean P. Barrett, Hera E. Schlagintweit, Robin N. Perry*

POD28-5: ADULT NICOTINE SELF-ADMINISTRATION AND RELAPSE-RELATED BEHAVIORAL EFFECTS FOLLOWING ADOLESCENT EXPOSURE TO NICOTINE AND A CANNABINOID AGONIST
Angeline Dukes*, Anna Pushkin, Valeria Lallai, JP Fowler, Adriana Hernandez-Vasquez, Yasmine Sherafat, Christie Fowler

10:30 AM - 12:00 PM
Salon 3-6 (First Floor)
Podium Presentation 6: Paper Session 29
DO BLUNTS IMPEDE TOBACCO PREVENTION?
Chair: Ryan Courtney
Audience: PH, P *

POD29-1: #BACKWOODSGANG - EVIDENCE OF PEER CROWD TARGETING BY LITTLE CIGAR AND CIGARILLO BRANDS ON INSTAGRAM
Carolyn A. Stalgaitis*, Dawnyéa D. Jackson, Marisa Greenberg

POD29-2: CHARACTERIZING BLUNT USE ON INSTAGRAM
Tatiana Basanez*, Stephanie Kim, Jon-Patrick Allem, Jennifer Unger, Tess Boley Cruz, Mary Ann Pentz, Jonathan M. Samet, Sabrina L. Smiley

POD29-3: RELATIVE EFFECTIVENESS OF PICTORIAL VS. TEXT-ONLY CIGARILLO WARNINGS AMONG YOUNG ADULTS
Jennifer Cornacchione Ross*, Jessica King, Beth Reboussin, Seth M. Noar, Allison J. Lazard, Desmond Jenson, Erin Sutfin

POD29-4: ASSOCIATION BETWEEN ADOLESCENT BLUNT USE AND THE UPTAKE OF LITTLE CIGARS AND CIGARILLOS
Janet Audrain-McGovern*, Daniel Rodriguez, Kymberle Sterling

10:30 AM - 12:00 PM
Salon 19-22 (First Floor)
Podium Presentation 6: Paper Session 30
MATTERS OF MENTAL HEALTH IN TOBACCO CESSATION
Chair: Amanda Mathew
Audience: C, PH
POD30-1: MENTAL HEALTH MULTI-MORBIDITY IN THE EAGLES TRIAL AND ASSOCIATIONS WITH BASELINE FACTORS, NEUROPSYCHIATRIC ADVERSE EVENTS, AND SMOKING CESSATION
John B. Correa*, David Lawrence, Benjamin S. McKenna, Natassia Gaznick, Phillip A. Saccone, Sarah Dubrava, Neal Doran, Robert Anthenelli

POD30-2: BASELINE DEPRESSIVE SYMPTOMS PREDICT DIFFERENTIAL TREATMENT RESPONSE TO VARENICLINE AND BUPROPION: SECONDARY ANALYSIS OF A RANDOMIZED CONTROLLED TRIAL
Laurie Zawertailo*, Helena Zhang, Emily Gilbert, Scott Velhuizen, Bernard Le Foll, Peter Selby

POD30-3: A RANDOMIZED CONTROLLED TRIAL OF INTEGRATED SMOKING CESSATION, EXERCISE AND WEIGHT MANAGEMENT COUNSELING IN PERSONS WITH SERIOUS MENTAL ILLNESS
Corinne Cather*, Faith Dickerson, Arlene Dalcin, Gerald Jerome, Nae-Yuh Wang, Una McCann, Lawrence Appel, Stacy Goldsholl, Joseph Gennusa, Courtney Cook, A Eden Evins, Gail Daumit

POD30-4: EFFECTIVENESS OF PROACTIVE TOBACCO OUTREACH IN SMOKERS WITH SERIOUS MENTAL ILLNESS
Sandra Japuntich*, Patrick Hammett, Erin Rogers, Steven Fu, Diana Burgess, Omar El-Shahawy, Anne Melzer, Barbara Clothier, Siamak Noorbaloochi, Scott Sherman

POD30-5: ASSOCIATION BETWEEN CURRENT ESTABLISHED TOBACCO PRODUCT USE AND ATTENTION DEFICIT/HYPERACTIVITY DISORDERS (ADHD) AMONG US YOUTH FINDINGS FROM WAVE 3 (2015-2016) OF THE PATH STUDY
Bekir Kaplan*, Arik V. Marcell, Joanna Cohen

10:30 AM - 12:00 PM
Salon 19-22 (First Floor)
Podium Presentation 6: Paper Session 31

ANALYTIC AND METHODOLOGICAL ADVANCES TO IMPROVE THE QUALITY OF CESSATION RESEARCH
Chair: Jason Oliver
Audience: C, PH

POD31-1: IMPROVING A DEEP LEARNING MODEL TO PREDICT SMOKING RISK FROM IMAGES OF PERSONAL ENVIRONMENTS
Abhishek Jadhav, Matthew Engelhard*, Jason Oliver, Cynthia Conklin, Joe McClemon

POD31-2: COMPARISON OF CIGARETTES PER DAY ASSESSED VIA THE PERSONAL AUTOMATIC CIGARETTE TRACKER (PACT) AND SELF-REPORT
Ashley Dowd*, Eleftherios Hetelekides, Jennifer Betts, Courtney Motschman, Masudul H. Imtiaz, Edward Sazonov, Stephen Tiffany
POD31-3: LACK OF UTILITY OF CIGARETTES PER DAY CUTOFFS FOR CLINICAL AND LABORATORY SMOKING RESEARCH  
Jason A. Oliver*, Lauren R. Pacek, Erin N. Locey, Laura J. Fish, Peter S. Hendricks, Kathryn I. Pollak

POD31-4: UTILIZING SUPPLEMENTAL DATA FOR MORE PRECISE ESTIMATION OF THE EFFECT OF VERY LOW NICOTINE CONTENT CIGARETTES IN SMOKERS WITH SERIOUS MENTAL ILLNESS  
Joseph Koopmeiners*, Elizabeth Gearhart, Sharon Ling, Brian Hobbs, Alexander Kaizer, Eric Donny, Dorothy Hatsukami, Jennifer Tidey

10:30 AM - 12:00 PM  
Grand Ballroom D (First Floor)  
Podium Presentation 6: Paper Session 32  
TRANSDISCIPLINARY ASSESSMENT OF CARDIOPULMONARY RISK OF ANDS AND TOBACCO SMOKE  
Chair: Anna Adetona  
Audience: PC, PH *

POD32-1: MODULATION OF PRIMING OF CIRCULATING NEUTROPHILS BY CIGARETTE SMOKE AND ALTERNATIVE NICOTINE DELIVERY SYSTEMS IN VIVO  
Aleksei Trofimov*, Valeri Menshov, Nadezda Berdnikova, Olga Yablonskaya

POD32-2: ASSOCIATION BETWEEN VAPING AND HYPERTENSION AMONG US ADULT ELECTRONIC CIGARETTE (E-CIGARETTE) USERS - RESULTS FROM THE POPULATION ASSESSMENT OF TOBACCO AND HEALTH (PATH) STUDY, WAVE 3  
Hangchuan Shi*, Deborah J. Ossip, Zahira Quinones Tavarez, Dongmei Li

POD32-3: SMOKING BUT NOT VAPING IS ASSOCIATED WITH HYPERTENSION AMONG ADULTS: RESULTS FROM WAVE 3 OF THE POPULATION ASSESSMENT OF TOBACCO AND HEALTH (PATH) STUDY.  
Connor R. Miller*, Maciej L. Goniewicz

POD32-4: THE EFFECT OF TOBACCO SMOKE EXPOSURE ON PULMONARY FUNCTION RESULTS IN U.S. NONSMOKING ADOLESCENTS  
Ashley L. Merianos*, Roman A. Jandarov, E. Melinda Mahabee-Gittens

10:30 AM - 12:00 PM  
Salon 15-18 (First Floor)  
Podium Presentation 6: Paper Session 33  
SURVEILLING INDUSTRY BEHAVIOR  
Chair: Joanna Cohen  
Audience: PH, P

Audience Key: PC: Pre-Clinical; C: Clinical; P: Policy; PH: Public Health; *: Conference Themed Session
POD33-1: THE FOX GUARDING THE HENHOUSE - THE TOBACCO INDUSTRY, ILLICIT TRADE, AND CODENTIFY
Kevin Welding*, Katherine Smith, Joanna Cohen

POD33-2: WE’VE SEEN THIS BEFORE, JUUL’S (BIG TOBACCO’S) PLAYBOOK
Natalie Hemmerich*

POD33-3: SMOKERS’ ATTITUDES TOWARD TOBACCO CONTROL LAWS AND TOBACCO INDUSTRY INTERFERENCE IN LAWMAKING AFTER EXPOSURE TO COURT-ORDERED CORRECTIVE STATEMENTS
James D. Matheny*, Sixia Chen

POD33-4: A CONTENT ANALYSIS OF TOBACCO PRODUCT MISINFORMATION IN THE MEDIA ENVIRONMENT
Chioma Woko*, Sharon Williams, Robert Hornik

POD33-5: TRANSITIONING FROM COMBUSTIBLE CIGARETTES TO ALTERNATIVE TOBACCO PRODUCTS, AN ANALYSIS OF INDUSTRY DOCUMENTS
Dorie Apollonio*, Stanton Glantz

10:30 AM - 12:00 PM
Grand Ballroom C (First Floor)
Podium Presentation 6: Paper Session 34

DEPENDENCE, DEMAND, AND CIGARETTE USE IN YOUTH AND ADULT VAPERS
Chair: Megan Piper
Audience: C, PH *

POD34-1: NICOTINE DEPENDENCE AND DEMAND AMONG POD-MOD ELECTRONIC CIGARETTE USERS AS A FUNCTION OF SMOKING STATUS
Eleanor L S Leavens*, Tracy T. Smith, Noelle Natale, Matthew J. Carpenter

POD34-2: PATTERNS AND PREDICTORS OF EXCLUSIVE, DUAL, AND CONCURRENT USE OF E-CIGARETTES AND TOBACCO AMONG ADOLESCENTS
Melissa H. Abadi*, Stephen R. Shamblen, Kirsten Thompson, Joel W. Grube, Sharon Lipperman-Kreda, Camila Aramburu

POD34-3: ADOLESCENTS USE OF E-LIQUID FLAVORS TO QUIT OR CUT DOWN CIGARETTE SMOKING: RESULTS FROM A 2017 SURVEY OF CONNECTICUT HIGH SCHOOL STUDENTS
Deepa R. Camenga*, Krysten W. Bold, Patricia Simon, Grace Kong, Meghan Morean, Asti Jackson, Danielle Davis, Suchitra Krishnan-Sarin

POD34-4: DO YOUNG ADULT POD-BASED E-CIGARETTE USERS SWITCH FROM CIGARETTES -A MIXED METHOD LONGITUDINAL STUDY
Jeremiah Mock*, Julia McQuoid, Emily Keamy-Minor, Pamela Ling

POD34-5: THE RELATIONS BETWEEN E-CIGARETTE AND COMBUSTIBLE CIGARETTE DEPENDENCE AND DAILY USE PATTERNS AMONG DUAL USERS
Megan E. Piper*, Timothy Baker, Deejay Zwaga, Douglas Jorenby
10:30 AM - 12:00 PM
Grand Ballroom B (First Floor)
Podium Presentation 6: Symposium 24

COUNTER-MESSAGING ABOUT E-CIGARETTES: EXPERIENCES FROM THREE NATIONAL PREVENTION CAMPAIGNS.

Chair: Elizabeth Hair
Audience: PH, P *

SYM24A: SAFER =/= SAFE: DEVELOPING AN ANTI-VAPE MESSAGE FROM THE TRUTH ANTI-TOBACCO CAMPAIGN
Elizabeth Hair*, Jessica Rath, Erin Lo, Alexis Barton, Donna Vallone

SYM24B: PROTECTING YOUNG PEOPLE FROM E-CIGARETTES: AN OVERVIEW OF CDC E-CIGARETTE COMMUNICATIONS
Jane Mitchko*, Sarah Lewis, Brian King, Kristy Marynak, Marie Ballman, Suzanne Heitfeld, Samantha Meeker

SYM24C: YOUTH REACTIONS TO THE FDA’S FIRST HEALTH MESSAGING CAMPAIGN CREATED SPECIFICALLY TO MESSAGE ON THE HARM OF ENDS USE TO YOUTH
Janine Delahanty*, Maria Roditis, Atanaska Dineva, Matthew Walker, Emily D’Iorio

SYM24D: PERCEIVED MESSAGE EFFECTIVENESS OF FDA’S E-CIGARETTE PREVENTION ADS: AN EXPERIMENT WITH U.S. YOUNG ADULTS
Seth M. Noar*, Jacob A. Rohde, Hannah Prentice-Dunn, Alex Kresovich, Marissa Hall

SYM24E: NEW PRODUCT, SAME PRACTICES- VAPE INDUSTRY USE OF PEER CROWD-TARGETED MARKETING
Dana E. Wagner*, Carolyn A. Stalgaitis, Cristina Hunter, Mayo Djakaria

10:30 AM - 12:00 PM
Salon 13-16 (First Floor)
Rapid Response Session- Public Health
Session Chair: Jamie Brown
(NOTE: The Rapid Response Paper Sessions titles and abstracts for these sessions are available in the Rapid Response Abstract Book and/or the SRNT Mobile App.)

Salon 7-10 (First Floor)
Rapid Response Session- Clinical
Session Chair: Erin McClure
(NOTE: The Rapid Response Paper Sessions titles and abstracts for these sessions are available in the Rapid Response Abstract Book and/or the SRNT Mobile App.)

Audience Key: PC: Pre-Clinical; C: Clinical; P: Policy; PH: Public Health; *: Conference Themed Session
12:00 PM - 1:30 PM
Churchill (Second Floor)
Poster Session 5: Rapid Response (Late Breaking)
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