



PRELIMINARY PROGRAM – V. 7.18.23 76th

Tobacco Science Research Conference

- 6 **IMOTINE™: A NOVEL NON-NICOTINE COMPOUND WITH CNS ACTIVITY.** Ed CARMINES¹, Manoj Misra¹ and Sam Benaim²; ¹Chemular, Hudson, MI, USA, ²Novel Compounds, Cheyenne, WY, USA
- 7 **POTENTIAL ENVIRONMENTAL IMPACT OF USE AND DISPOSAL OF A MODERN ORAL NICOTINE POUCH PRODUCT.** Ed CARMINES; Chemular, Hudson, MI, USA
- 8 **EVALUATION OF THE POTENTIAL EXTRACTABLES FROM A CHUBBY GORILLA E-LIQUID BOTTLE.** Ed CARMINES¹, Lise Fraissinet¹ and Tom Barrett²; ¹Chemular, Hudson, MI, USA, ²Legend Technical Services, St. Paul, MN, USA
- 9 **APPLYING THE TOBACCO PRODUCT MANUFACTURING PRACTICES TO EXISTING MANUFACTURING PROCESSES.** Lillian ORTEGA, Lise Fraissinet, Randy Freund, Chris Woodruff and Kevin Burd; Chemular Inc, Hudson, MI, USA
- 10 **CLEARING THE MARKET OF ILLEGAL ENDS PRODUCTS BEGINS AT THE US PORTS.** Lillian ORTEGA, Kevin Burd, Bryan Burd; Chemular, Inc, Hudson, MI, USA
- 11 **COMPARISON OF METALS CONTENT IN ENDS USING ICP-MS WITH TWO SEPARATE AEROSOL COLLECTION METHODS: FRITTED IMPINGERS AND FEP TUBING.** Donald STOGNER, Emma Willis, Jamil Gray, Carl J. Adams and Salem Chouchane; Eurofins Professional Scientific Services, Winston-Salem, NC, USA
- 12 **METHOD VERIFICATION FOR CARBONYL ANALYSIS OF NON-ROUTINE AEROSOL SAMPLES.** Valerie SCHWARTZ; Juul Labs, Inc, Washington, DC, USA

- 13 **SIMULATION ANALYSIS OF STATISTICAL EQUIVALENCE TESTING OF HARMFUL AND POTENTIALLY HARMFUL CONSTITUENTS (HPHCS).** Qiwei LIANG, Joey Chen, David Cook, Gene Gillman and Ryan Black; Juul Labs, Inc, Washington, DC, USA
- 14 **FORMATION OF SMALL ORGANIC ACIDS DURING ENDS AEROSOL COLLECTION.** Joseph JABLONSKI and Andrew G. Cheetham; Enthelpy Specialty Labs, Richmond, VA, USA
- 15 **TOBACCO SPECIFIC NITROSAMINES AND NICOTINE DEGRADANTS: A METHOD FOR COMBINED ANALYSIS IN ENDS E-LIQUIDS AND AEROSOL.** Alexander PENNINGTON, Nancy Qian, Carol Perry, Dakota Hawkins and Gene Gillman; Juul Labs, Inc, Washington, DC USA
- 16 **SURVEY OF METALS PRESENT IN THE E-LIQUID OF AGED CLOSE POD-BASED AND CIGALIKE ELECTRONIC-CIGARETTES FROM THE NORTH AMERICAN MARKET.** Prasad LAVISETTY, Darybelle Collins, David Cook, Kathy Humphries and Gene I. Gillman; Juul Labs, Inc, Washington, DC, USA
- 17 **A COMPARATIVE STUDY OF ENDS PARTICLE SIZE ANALYSIS WITH ELECTRICAL AND GRAVIMETRIC MEASUREMENTS OF DILUTED AND UN-DILUTED AEROSOLS.** Jake HENKIE, Angel Rodriguez-Lafuente, Amelia Mawdsley, Nathan Nguyen and Clark Robitaille; Labstat International Inc, Kitchener, ON, Canada
- 18 **METHODS FOR ANALYSIS OF SWEETENERS, FLAVOR COMPONENTS AND PROPYLENE GLYCOL IN NICOTINE POUCHES AND SALIVA SAMPLES.** Angel Rodriguez-LAFUENTE, Kenneth Chalcraft, Rebecca Cornelius and Cosmin Stoicoiu; Labstat International, Kitchener, ON, Canada

- 19 **DESOLVATING INTRODUCTION SYSTEM TEMPERATURE OPTIMIZATION FOR LINEAR ZINC, CADMIUM, AND TIN CALIBRATIONS WITH TRIPLE QUAD ICP-MS FOR E-CIGARETTE AEROSOL ANALYSIS.** Naudia GRAY and R. Steven Pappas; Centers for Disease Control and Prevention, Atlanta, GA, USA
- 20 **AROMATIC AMINES IN THE MAINSTREAM SMOKE OF COMMERCIAL CIGARS.** Huihua JI, Zhenyu Jin, Laura Fenton, Stacey Slone and Bing Zhang; University of Kentucky, Lexington, KY, USA
- 21 **THE CONCENTRATIONS OF SELECTED TOXIC METALS IN THREE CATEGORIES OF COMMERCIAL CIGAR PRODUCTS.** Cynthia MCNEES, Priyanka Paul, Sanjay Joshi, Nicole Anderson and Solomon Kariuki; University of Kentucky, Lexington, KY, USA
- 22 **THE EFFECT OF DESIGN PARAMETERS ON YIELDS OF 33 HARMFUL AND POTENTIALLY HARMFUL CONSTITUENTS (HPHCS) IN MAINSTREAM SMOKE OF LARGE CIGARS.** Scott WASDO, Therese Ku, Samantha Reilly, Tianrong Chen and Charles Feng; United States Food and Drug Administration, Silver Spring, MD, USA
- 23 **THE IMPACT OF SODIUM ALGINATE MODIFIED AGENT ON THE DEGRADATION PERFORMANCE OF CELLULOSE ACETATE USED FOR CIGARETTE.** Fengcheng SHI¹, Zhou Jian¹, Huang Xin¹, Liu Yanju¹, Zhang Xiaolin¹, Song Guangfu¹ and Mao Hui²; ¹China Tobacco Sichuan Industrial Co, Sichuan Province, Chengdu, China, ²Sichuan University, Sichuan Province, Chengdu, China
- 24 **CARBONYL ANALYSIS OF CIGARETTE MAINSTREAM SMOKE BY BAG COLLECTION.** Bryan HEARN¹, Erica Lewis¹, Cody Sheppard¹, Clifford Watson² and Liza Valentin²; ¹Battelle Analytical Services, Atlanta, GA, USA, ²CDC, Atlanta, GA USA

- 25 **CHANGE CONTROL CHALLENGES IN THE CONTEXT OF PMTA.** Lise FRAISSINET, Lillian Ortega, Randy Freund, Chris Woodruff and Bryan Burd; Chemular Inc, Hudson, Michigan, USA
- 26 **ELECTRONIC TRIAL MASTER FILE: AN IMPORTANT STEP IN DOCUMENTING CLINICAL TRIAL DATA USED TO SUPPORT A PREMARKET TOBACCO PRODUCT APPLICATION.** Jeff COFFIELD, Jason Henstock and Ken Szeliga; RAI Services Company, Winston Salem, NC, USA
- 27 **PROMOTIONAL MATERIALS FOR A NOVEL HEATED TOBACCO CAPSULE SYSTEM INCREASE BEHAVIORAL INTENTIONS TO TRY AND USE IN ADULT SMOKERS BUT NOT IN NONUSERS, AND DO NOT IMPEDE QUIT INTENTIONS.** Diana MCKINNEY and Elizabeth Becker; Altria Client Services, Richmond, VA, USA
- 28 **PROMOTIONAL MATERIALS FOR A NOVEL HEATED TOBACCO CAPSULE SYSTEM DO NOT ALTER RISK PERCEPTIONS.** Diana MCKINNEY and Elizabeth Becker, Altria Client Services, Richmond, VA, USA
- 29 **VITROCELL® HIGH THROUGHPUT EXPOSURE MODULE 2.0+: DEPOSITION OF WHOLE AEROSOL FROM TWO DIFFERENT TOBACCO PRODUCT TYPES.** Brian KEYSER¹, Robert Leverette¹, Kristen Joran¹, Adam Seymour² and Michael Hollings²; ¹RAI Services Company, Winston-Salem, NC, USA, ²Labcorp Early Development Laboratories, Harrogate, North Yorkshire, UK
- 30 **THE CHANGING LANDSCAPE OF TOBACCO USE AND SWITCHING BEHAVIORS AMONG US ADULTS.** Yisha HE, Lai Wei, Raheema Muhammad-Kah and Edward Largo; Altria Client Services, Richmond, VA, USA

- 31 **AN ABUSE LIABILITY COMPARISON OF TEST AND REFERENCE TOBACCO AND MENTHOL FLAVORED E-LIQUIDS IN THE RELX INFINITY ELECTRONIC NICOTINE DELIVERY SYSTEM (ENDS).** Donald GRAFF¹, Mitch Nides² and Ryan G. N. Seltzer³; ¹Cheerain HK Limited, Hong Kong, China, ²LA Clinical Trials, Burbank, CA, USA, ³USA, Safety in Numbers, Tucson, AZ, USA
- 32 **SUBJECTIVE EFFECTS ASSOCIATED WITH RELX INFINITY ELECTRONIC NICOTINE DELIVERY SYSTEM (ENDS) USE IN AN 8-WEEK SWITCHING STUDY OF ADULT SMOKERS.** Donald GRAFF¹, Yuli Xie² and Sabrina Ciric²; ¹Cheerain HK Limited, Hong Kong, China, ²Celerion, Inc, Lincoln, Nebraska, USA
- 33 **NON-CLINICAL TOXICOLOGICAL ASSESSMENT OF FLAVORED E-LIQUIDS AND CLOSED SYSTEM POD-BASED ENDS FLAVOR FORMULATIONS.** Manoj MISRA, Ed Carmines and Lise Fraissinet; Chemular, Inc, Hudson, MI, USA
- 34 **COMPARATIVE QUANTITATIVE HEALTH RISK ASSESSMENT (QRA) OF A TEMPERATURE-REGULATED NICOTINE SALT-BASED CONNECTED ENDS PRODUCT WITH REFERENCE CIGARETTE: AEROSOL CANCER AND NON-CANCER RISKS.** Manoj MISRA, Ed Carmines and Lise Fraissinet; Chemular, Inc, Hudson, MI, USA
- 35 **APPLICATION OF THE HUMAN HEALTH RISK ASSESSMENT PROCESS FOR THE EVALUATION OF ELECTRONIC CIGARETTES.** Autumn BERNAL¹, Charlene Liu², Charles Johnson³ and Richard Young³; ¹Toxcreative, Laguna Hills, CA, USA, ²RiskWise Solutions, Princeton, NJ, USA, ³Bibra Toxicology Advice & Consulting, Wallington, UK

- 36 **ABSTINENCE, RELAPSE, AND RELATIVE HARM PERCEPTIONS AMONG SMOKERS AND E-CIGARETTE USERS IN THE POPULATION ASSESSMENT OF TOBACCO AND HEALTH (PATH) STUDY.** Susan MARTELLE, Emery L. Ngamasana and Christie Powell; RAI Services Company, Winston Salem, NC, USA
- 37 **A RANDOMIZED, SINGLE BLINDED, CROSS-OVER STUDY TO EVALUATE THE PHARMACOKINETIC PROFILES OF E-CIGARETTES WITH NICOTINE SALT FORMULATIONS IN UK ADULTS WHO USE E-CIGARETTES.** Yuki TAKESHIGE; JT International, Geneve, Switzerland
- 38 **ASSESSING THE RELATIONSHIP BETWEEN E-CIGARETTES RISK PERCEPTION, INTENTION TO QUIT CIGARETTES, AND CIGARETTE CONSUMPTION: A STRUCTURAL EQUATION MODEL.** Emery NGAMASANA; RAI Services Company, Winston Salem, NC, USA
- 39 **ANALYZING THE RELATIONSHIPS BETWEEN TOPOGRAPHY, E-LIQUID USAGE, AND PHARMACOKINETICS IN JUUL₂ PROTOTYPE DEVICES.** Qiwei LIANG¹, Lonnie Rimmer¹, Joey Chien¹, Nicholas Goldenson¹, Ryan Black¹, Saul Shiffman² and Douglas Oliveri³; ¹Juul Labs, Inc, Washington, DC, USA, ²Pinney Associates, Bethesda, MD, USA, ³Independent Consultant
- 40 **LEACHABLE TESTING TO EVALUATE EFFECT OF AN ALTERNATE TRANSPORT MODE ON ENDS POD INTEGRITY.** Felix AYALA-FIERRO, Harish Chevva, Qiwei Liang, Matthew Lyndon, David Cook and Michael J. Oldham; Juul Labs, Inc, Washington, DC, USA

Session A

C-DISC

Session Chair: William Rees

Session B

e-Cigarette Chemistry

Session Chair: Karen Carter

- 1:55 PM Welcome Remarks
- 2:00 PM 41 **FDA-CTP AND CDISC DEVELOP TOBACCO RELATED STANDARDS TO ACHIEVE EFFICIENCIES FOR ALL STAKEHOLDERS.**
Chrissie CAI¹ and ²Christine Connolly; ¹FDA Center for Tobacco Products, Beltsville, MD, USA, ²CDISC, Austin, Texas, USA
- 2:20 PM 42 **ASSESSMENT OF FORMALDEHYDE AND ACETALDEHYDE FORMATION IN E-LIQUID AND DURING PUFFING OF AN ENDS PRODUCT.**
Manali AGRAWAL, Bob Moision, Katharine Pearce and Apurva Bhavé; Juul Labs, Inc, Washington, DC, USA
- Welcome Remarks
- 46 **WORKFLOW ASSESSMENT OF POTENTIAL LEACHABLES IN AEROSOL FROM ENDS SYSTEMS.** Karen CARTER; Juul Labs, Inc, Washington DC, USA
- 47 **ANALYTICAL INVESTIGATION OF DATA DEFICIENT SIMULATED LEACHABLES IN ENDS PRODUCTS: CASE STUDY.** Cameron SMITH, Matthew Lyndon, Lena Jeong, Danielle Lehman, J. Brian Jameson, Harish Cheeva, Felix Ayala-Fierro, Karen Carter, David Cook and I. Gene Gillman; Juul Labs, Inc, Washington DC USA

2:25 PM

48 **FLAVORANT
TRANSPORT
PREDICTION FROM E-
LIQUID MATRICES.**
Bob MOISION, Laura
Striepe, Vincent Nip and
Huan Wang; Juul Labs, Inc,
Washington. DC, USA

2:45 PM

49 **A MODEL OF THE
TRANSFER OF
SPECIES FROM THE
E-LIQUID TO THE
AEROSOL DURING
VAPORIZATION IN
AN ENDS PRODUCT.**
David KANE, Gordon
Holloway, Nagaraja Rao,
Bob Moision, Venessa Tse
and Norman Fraley; Juul
Labs, Inc, Washington,
DC USA

3:05 PM

50 **IDENTIFICATION OF
AEROSOL
COLLECTION
RELATED
UNKNOWN IN NTA
SAMPLES USING GC-
ORBITRAP.** Laura
STRIEPE, Bob Moision,
Vincent Nip, Brian
Jameson and Lena Jeong;
Juul Labs, Inc,
Washington, DC, USA

3:25 PM Panel Discussion & Audience Q&A

51 **THE MODULAR PUFF MACHINE (MPM): A NEW APPROACH TO PUFFING.** Nandita SINGH, Bob Moision, Johnathan Marquez, Scott Park and Tom Vo; Juul Labs, Inc, Washington, DC, USA

4:00 PM

BREAK

Session A
Toxicology, in vitro, Product Stewardship
Session Chair: Katarina Aleksa

Session B
Cigarette Chemistry
Session Chair: Karl Wagner

4:20 PM Welcome Remarks

Welcome Remarks

4:25 PM 43 **LESSONS LEARNED FROM THE IN VITRO/IN VIVO TOXICOLOGICAL ASSESSMENT OF THE JUUL SYSTEM.**
Michael OLDHAM¹, Pamela Heard², Leon F. Stankowski Jr² and Guy Lalonde³; ¹Juul Labs, Inc, Washington DC, USA, ²Charles River Laboratories, Skokie, IL, USA

52 **HORWITZ-THOMPSON EQUATION AS A BENCHMARK FOR CORESTA COLLABORATIVE STUDY RESULTS.**
Michael MORTON; Altria Client Services, Richmond, VA, USA

- 4:45 PM 44 **A QUANTITATIVE RISK ASSESSMENT APPROACH TO EVALUATE RELATIVE HEALTH RISKS OF ELECTRONIC CIGARETTES VS. COMBUSTIBLE CIGARETTES.** Charlene LIU¹, Autumn Bernal², Yilang Huang³, Chuan Liu⁴, Donald Graff⁵ and Xingtao Jian³; ¹RiskWise Solution, Princeton, NJ, USA, ²ToxCreative, Laguna Hills, CA, USA, ³RELX Technology, Shenzhen, China, ⁴Pinevale, Southampton, UK, ⁵Cheerain HK Limited, Hong Kong
- 53 **EFFECT AND INFLUENCE OF PERFORATION METHODS FOR TIPPING PAPER ON THE CONTROL OF THE THERMAL ENERGY OF SMOKE FROM TOBACCO PRODUCTS.** Michael LINDNER¹, Cristina Rufener² and Tomas Bense²; ¹Tann Holding, Traun, Austria, ²C.I.T. Montepaz, Montevideo, Uruguay
- 5:05 PM 45 **IN VITRO TOXICOLOGICAL EVALUATION AND COMPARISON OF TOBACCO HEATING PRODUCT AND E-CIGARETTE AEROSOLS AT AIR-LIQUID INTERFACE.** WANG Hong Juan; China National Tobacco Quality Supervision & Test Center, Zheng Zhou, China
- 54 **ANALYSIS OF SELECTED SEMI-VOLATILE COMPOUNDS IN MAINSTREAM SMOKE USING AMBERLITE RESIN AS TRAPPER AND ANALYZED BY GAS CHROMATOGRAPHY MASS SPECTROMETRY.** Suci INDRAYANI, Anggra Hardiansyah, Ari Wieliyani and Ekapria Utama Mulyana; Filtrona's Scientific Services, Surabaya, East Java, Indonesia

5:25 PM

55 **A REVERSE
PREDICTION
ALGORITHM OF
CIGARETTE TAR
YIELDS BASED ON
INVERTIBLE NEURAL
NETWORK.** Jian
ZHOU¹, LIU Yanju¹,
HUANG Xin¹, SHI
Fengcheng¹, JI Xiaoying¹,
LI Xiaopeng¹, ZHANG
Xiaolin¹, ZOU Yuanwen²
and HE Gang³; ¹China
Tobacco Sichuan
Industrial, Chengdu,
Sichuan, China, ²Sichuan
University, Chengdu,
Sichuan, China,
³Southwest University of
Science and Technology,
Mianyang, Sichuan, China

ADJOURN

TUESDAY MORNING, SEPTEMBER 26, 2023

Session A
Regulatory & Public
Health
Session Chair: Jessica
Parker-Zdinak

Session B
Clinical, Behavioral &
Perception Research
Session Chair:
Ian Fearon

8:45 AM Welcome Remarks

8:50 AM 56 **UNDERSTANDING CONSUMERS' JOURNEY FROM CIGARETTES TO MODERN ORAL NICOTINE PRODUCTS.** Jessica PARKER-ZDINAK¹, Sarah Marking² and Andrew Joyce²; ¹Applied Research and Analysis Company, Richmond, VA, USA, ²Consilium Sciences, Richmond, VA, USA

Welcome Remarks

65 **BEHAVIORAL INTENTIONS ASSESSMENT OF A DISPOSABLE E CIGARETTE AMONG ADULT CURRENT, FORMER, AND NON SMOKERS IN THE UNITED STATES.** Christopher RUSSELL¹, Willie J. McKinney² and Ian M. Fearon³; ¹Russell Burnett Research & Consultanc, Glasgow, UK, ²McKinney Regulatory Science Advisors, VA, USA, ³whatIF? Consulting, Harwell, UK

- 9:10 AM 57 **THE CASE FOR A REVISED ABUSE LIABILITY ASSESSMENT FRAMEWORK FOR TOBACCO PRODUCTS.** Andrea VANSICKEL; Altria Client Services, Richmond, VA, USA
- 66 **UNDERSTANDING THE SENSORY ATTRIBUTES UNDERLYING THE ACCEPTANCE OF E-CIGARETTE PRODUCTS, WITH THE AIM TO INCREASE THE ACCEPTANCE OF ALTERNATIVE SMOKING PRODUCTS.** Andrew LIVERMORE¹, Malori Comer¹ and Laurel Moller²; ¹Curion Insights, Red Wood City, CA, USA, ²Curion Insights, Old Bridge, NJ, USA
- 9:30 AM 58 **STANDARDIZING THE EVALUATION OF APPROPRIATENESS FOR THE PROTECTION OF PUBLIC HEALTH IN PREMARKET TOBACCO PRODUCT APPLICATIONS.** Ryan SELTZER¹, Ding-Geng Chen² and ³Ian M. Fearon; ¹Safety in Numbers, Tucson, AZ, USA, ²Arizona State University, Phoenix, AZ, USA, ³whatIF? Consulting Ltd, Harwell, UK
- 67 **ESTIMATING HUMAN PK PARAMETERS FOR ENDS PRODUCTS FROM CHEMICAL ANALYSES OF THEIR AEROSOLS.** Saul SHIFFMAN¹, Qiwei Liang², Georgios Karles² and Gal Cohen³; ¹Pinney Associates, Pittsburg, PA, USA, ²Juul Labs, Inc, Washington, DC, USA, ³Intuitive Sciences, Tiburon, CA, USA

9:50 AM 59 **CORESTA TOBACCO HARM REDUCTION WORKSHOP OVERVIEW.** Jason FLORA¹ and Rob Stevens²; ¹Altria Client Services, Richmond, VA, USA, ²RAI Services Company, Winston-Salem, NC, USA

68 **ASSESSING NICOTINE PHARMACOKINETICS OF NEW GENERATION TOBACCO PRODUCTS AND CONVENTIONAL CIGARETTES: A SYSTEMATIC REVIEW AND META-ANALYSIS.** Yue Cao¹, Chongyi Hu¹, Jiaxuan Li¹, Xi Chen¹, Jianqiang Zhang¹, Xiaona LIU¹ and Lin Zhang²; ¹Smooore Tech Research Institute, Shenzhen, China, ²Institute of Artificial Intelligence, Hefei Compre, China

10:10 AM

BREAK

***Session A
Regulatory & Public
Health
Session Chair: Jessica
Parker-Zdinak***

***Session B
e-Cigarette Chemistry
Session Chair: Brian
Jameson***

10:30 AM Session Welcome Remarks

Session Welcome Remarks

- 10:35 AM 60 **SUBSTANTIAL EQUIVALENCE OF TOBACCO PRODUCTS: ARE ALL TOBACCO PRODUCTS OF THE SAME TYPE AND CHARACTERIZING FLAVOR SUBSTANTIALLY EQUIVALENT? EXAMPLES OF EQUIVALENCE AND NONEQUIVALENCE AMONG WATERPIPE TOBACCOS.** John LAUTERBACH; Lauterbach and Associates, Deland, FL, USA
- 10:55 AM 61 **MENTHOL-FLAVORED TOBACCO AND NICOTINE PRODUCTS: REGULATORY CONSIDERATIONS.** Arielle SELYA; Pinney Associates, Pittsburg, PA, USA
- 69 **DETERMINATION OF GLYCIDOL IN E-LIQUID AND AEROSOL SAMPLES FOR ENDS PRODUCTS BY GC-MS.** David COOK, Beth Stump, Norman Fraley, Kathy Humphries, I. Gene Gillman and Brian Jameson; Juul, Labs, Inc, Washington, DC, USA
- 70 **SELECTED HPHC FORMATION IN JUUL₂ NON-COMMERCIAL DEVICES AS A FUNCTION OF TEMPERATURE.** Hosna MOGADDEDI, Gene Gillman, Bob Moision, Nandita Singh, Venessa Tse, Kevin Pascual, Angela Huang, Valerie Schwartz and Sam Anderson; Juul Labs, Inc, Washington, DC, USA

11:15 AM 62 **MODELLING THE IMPACT OF AN ENDS FLAVOR BAN ON YOUTH USERS AND ADULT CURRENT SMOKERS IN THE UNITED STATES.** Andrea PATTON, Jyoti Goyal, Gabriel Barnard and Neil McKeganey; Centre for Substance Use Research, Glasgow, UK

11:35 AM 63 **EVOLUTION OF YOUTH TOBACCO USE: ANALYZING TRENDS IN E-CIGARETTE CONSUMPTION AND THE RISE OF CBD/THC CONTAINING DEVICES.** Mark CROSSWHITE; McKinney Regulatory Science Advisors, Henrico, VA, USA

71 **GLYCIDOL IN ENDS; YIELD PATTERNS OVER POD LIFE AND MEASUREMENTS IN 35 NORTH AMERICAN MARKET PRODUCTS.** Brian JAMESON, Karen Carter, Candice Jongsma, Jiaming Wang, Austin L. Bates, Sifat Ullah, Cameron R. Smith, Lena N. Jeong, David K. Cook and I. Gene Gillman; Juul Labs, Inc, Washington, DC, USA

72 **ACCELERATED AGING OF PROPYLENE GLYCOL AND GLYCEROL.** Norman FRALEY; Juul Labs, Inc, Washington, DC, USA

- 11:55 AM 64 **ARE SMOKERS AND YOUNG PEOPLE OVER-SURVEYED? ADDRESSING CONCERNS ABOUT POSSIBLE RESPONDENT FATIGUE AND PRIMING EFFECTS IN PROBABILITY-BASED SAMPLING FOR REGULATORY SURVEY RESEARCH.**
Christopher FLEURY, Victoria Hoverman and Abby Cohen; Ipsos-Insight, Washington, DC, USA
- 73 **ASSESSMENT OF FORMALDEHYDE AND ACETALDEHYDE FORMATION IN E-LIQUID AND DURING PUFFING OF AN ENDS PRODUCT.** Manali AGGRAWAL, Bob Moision, Katharine Pearce and Apurva Bhawe; Juul Labs, Inc, Washington, DC, USA

12:15 AM

LUNCH

TUESDAY AFTERNOON, SEPTEMBER 26, 2023

1:00 PM

Posters

- 74 **E-CIGARETTE REGULATORY NON-COMPLIANCE IN THE UK MARKETPLACE.** Malcolm SAXTON; Broughton Life Sciences, Earby, Lancashire, UK
- 75 **INNOVATIVE SOLUTION TO AN AGE-OLD PROBLEM- CONSIDERATIONS WHEN DEVELOPING AGE- GATED TECHNOLOGY.** Lillian ORTEGA, Lise Fraissinet, Ed Carmines, Bryan Burd and Kevin Burd; Chemular, Inc, Hudson, MI, USA
- 76 **NICOTINE EXTRACTION FROM POLYPROPYLENE MODERN ORAL PACKAGING.** Owen BUSSEY, Cody Perry and Serban Moldoveanu; Reynolds American, Winston Salem, NC, USA

- 77 **STABILITY EVALUATIONS OF TOBACCO-FREE NICOTINE-CONTAINING POUCH PRODUCTS.** Sawyer HUBBARD, Candice K. Cunningham and Nolan D. Spann; Reynolds American, Winston Salem, NC, USA
- 78 **RAPID “MOISTURE” DETERMINATION AS AN ALTERNATIVE TO CRM76 FOR MODERN ORAL POUCHES.** Ian TINDALL; Cerulean, Milton Keynes, UK
- 79 **A COMPARISON OF HPHCS IN ON!® PLUS NICOTINE POUCHES TO HPHCS IN CIGARETTES, SMOKELESS TOBACCO INCLUDING SNUS AND AN ORAL NRT PRODUCT.** Regina BALLENTINE, John H. Miller IV, Cathy X. Jin, Jennifer H. Smith, Karl A. Wagner, Regina M. Ballentine, Hannah Grisevich, Chris K. Salmon, Michael S. Williams, Likun Yang, Richard W. Morgan, Vanessa Haase and Tim L. Danielson; Altria Client Services, Richmond, VA, USA
- 80 **QUANTITATIVE MEASUREMENT OF HPHCS IN 16 COMMERCIAL SMOKELESS TOBACCO PRODUCTS.** Selvin EDWARDS and Kenneth M. Taylor; Food and Drug Administration, Silver Springs, Maryland, USA
- 81 **NICOTINE AND FREE- (UNPROTONATED) NICOTINE IN SEVERAL NOVEL SMOKELESS NICOTINE PRODUCTS: HERBAL SNUFF, TOOTHPICKS, LOZENGES, GUM, AND TOBACCO-FREE POUCHES.** Robert TYX, Hang Tran, Liza Valentin-Blasini and Clifford H. Watson; U.S. Centers for Disease Control and Prevention, Atlanta, GA, USA
- 82 **METHOD MODIFICATIONS AND VALIDATION TO EXPAND SCOPE OF CRM NO 95 TO ANALYZE SELECT AROMATIC AMINES IN HEATED TOBACCO PRODUCTS.** Nicholas MCCUTCHEON, Matt Melvin, Weiling Li, Regina Ballentine, Niti H. Shah, and Yezdi Pithawalla; Altria Client Services, Richmond, VA, USA

- 83 **DETERMINATION OF AEROSOL MASS AND FIVE PRIMARY CONSTITUENTS IN AEROSOLS GENERATED FROM HEATED TOBACCO PRODUCTS.** Anthony BROWN¹, Sandra Ingram², Krystal Soler², Nick McCutcheon¹, Matt Melvin¹, Yezdi B. Pithawalla¹ and Weiling Li¹; ¹Altria Client Services, Richmond, VA, USA, ²Lancaster Professional Scientific Staffing, Richmond, VA USA
- 84 **QUANTITATIVE DETERMINATION OF BENZO[A]PYRENE IN AEROSOL EMITTED BY HEATED TOBACCO PRODUCTS USING GAS CHROMATOGRAPHY-MASS SPECTROMETRY.** Suci INDRAYANI, Anggra Hardiansyah, Ari Wieliyani and Eka U. Mulyana; Filtrona's Scientific Services, Surabaya, East Java, Indonesia
- 85 **COMPARISON OF HPHCS IN AEROSOL GENERATED FROM A NOVEL HEATED TOBACCO CAPSULE (HTC) PROTOTYPE TO HPHCS IN CONVENTIONAL CIGARETTE SMOKE.** James SKAPARS, Weiling Li, Yezdi Pithawalla, Matt Melvin and Tim Danielson; Altria Client Services, Richmond, VA, USA
- 86 **CREATING AN AI LLM TOBACCO DATABASE.** Kevin BURD¹ and Ryan Selby²; ¹Chemular, Hudson, MI, USA, ²Generative AI Solutions, Vancouver, Canada
- 87 **EFFECT OF TIME IN THE PYROLYSIS OF HEET TOBACCO WITH SBA-15 FIBROUS AND SBA-15 PLATELETS.** Marbel BELTRÁN¹, Deseada Berenguer¹, Antonio Marcilla¹ and Michael Cairns²; ¹Alicante University, Alicante, Spain, ²Strathclyde University, Scotland, UK
- 88 **IN VITRO CYTOTOXICITY AND MUTAGENICITY ASSESSMENT OF A NOVEL HEATED TOBACCO CAPSULE (HTC) PROTOTYPE IN COMPARISON TO COMBUSTIBLE CIGARETTES.** Utkarsh DOSHI, Britt Langston and K. Monica Lee; Altria Client Services, Richmond, VA, USA

- 89 **ON-DEVICE TOPOGRAPHY RECORDING IN A PROTOTYPE HEATED TOBACCO CAPSULE (HTC) SYSTEM.** Kevin BALL, Raymond Lau, Zack Blackmon, Jianmin Liu, Yezdi B. Pithawalla and Jeff Edmiston; Altria Client Services, Richmond, VA, USA
- 90 **CHARACTERIZATION OF NICOTINE PHARMACOKINETICS FROM USE OF A NOVEL HEATED TOBACCO CAPSULE PROTOTYPE IN ADULTS WHO SMOKE.** Jianmin LIU, Jingzhu Wang, Jeffery S. Edmiston, Raymond W. Lau and Yezdi B. Pithawalla; Altria Client Services, Richmond, VA, USA
- 91 **CIGARETTE REDUCTION AND SWITCHING BEHAVIOR BY MENTHOL CIGARETTE PREFERENCE AND MENTHOL HEATED TOBACCO PRODUCT USE AMONG ADULTS WHO SMOKE CIGARETTES.** Joshua KARELITZ, Hui Cheng, Elizabeth Becker and Jenna Leighty; Altria Client Services, Richmond, VA, USA
- 92 **TOBACCO USE, PERCEPTIONS, AND CHARACTERISTICS OF ADULTS WHO USE IQOS® IN THE UNITED STATES: FINDINGS FROM A CROSS-SECTIONAL STUDY.** Hui CHENG¹, Brendan Noggle¹, Andrea R. Vansickel¹, Edward G. Largo¹, Pierpaolo Magnani² and Annie Heremans²; ¹Altria Client Services, Richmond, VA, USA, ²Philip Morris Products, Lausanne, Switzerland
- 93 **AN ASSESSMENT OF DEPENDENCE IN ADULT SMOKERS SWITCHING FROM COMBUSTIBLE CIGARETTES TO THE RELX INFINITY ELECTRONIC NICOTINE DELIVERY SYSTEM (ENDS) OVER 8 WEEKS.** Donald GRAFF¹ and Ian M. Fearon²; ¹Cheerain HK Limited, Hong Kong, China, ²whatIF? Consulting Limited, Harwell, UK

- 94 **IN VITRO GENOTOXICITY EVALUATION OF JUUL ENDS, MARKETED ENDS, AND REFERENCE CIGARETTES.** Guy LALONDE¹, Christina Sulaiman¹, Pamela Heard², Vyom Sharma², Leon F. Stankowski, Jr.² and Michael Oldham¹; ¹Juul Labs, Inc, Washington, DC, USA, ²Charles River Labs, Skokie, IL, USA
- 95 **TOXICOLOGICAL POTENTIAL OF TWO JUUL ENDS PRODUCTS RELATIVE TO REFERENCE CIGARETTE 3R4F AND FILTERED AIR IN A 90-DAY NOSE-ONLY INHALATION TOXICITY STUDY.** Guy LALONDE¹, Rahat Wadhwa Desai² and Charles L. Gaworski³; ¹Juul Labs, Inc, Washington, DC, USA, ²Syngenta Canada, Arva, ON, Canada, ³Kozmin Consulting, Flat Rock, NC, USA
- 96 **A RELATIVELY LOW NICOTINE STRENGTH E-LIQUID THAT REDUCES THE URGE TO SMOKE AS MUCH AS CIGARETTES.** Ed CARMINES¹, Lise Fraissinet¹, Karen Carmines¹ and Naama Levy-Cooperman²; ¹Chemular, Hudson, MI, USA, ²Altros Research Partners, Toronto, Canada
- 97 **YOUTH UNDERESTIMATE THE HEALTH AND ADDICTION RISKS OF TOBACCO PRODUCTS.** Ed CARMINES¹, Lise Fraissinet¹ and Azure Steele²; ¹Chemular, Hudson, MI, USA, ²M/A/R/C Research, High Point, NC, USA
- 98 **RAPID IN VITRO TOXICOLOGICAL SCREENING USING TOXTRACKER TO DETERMINE THE EFFECT OF REPEATED FREEZE/THAW OF COMBUSTIBLE CIGARETTE EXTRACT.** Katarina ALEKSA¹, Sean Oh¹, Ed Carmines², Manoj Misra², Bonnie Coffa² and Giel Hendrik³; ¹Labstat International, Kitchener ON, Canada, ²Chemular, Hudson MI, USA, ³Toxys, Leiden, Netherlands
- 99 **APPLICATION OF A RAPID IN VITRO TOXICOLOGICAL SCREENING (TOXTRACKER®) TO DETERMINE THE EFFECT OF FLAVORS IN SNUS PRODUCTS.** Ed CARMINES¹, Katarina Aleksa², Sean Oh², Manoj Misra¹, Bonnie Coffa¹ and Giel Hendriks³; ¹Chemular, Hudson MI, USA, ²Labstat International, Kitchener, ON Canada, ³Toxys, Leiden, Netherlands

- 100 **NEUTRAL RED UPTAKE TESTING OF ORAL NICOTINE PRODUCTS AFTER EXTRACTION WITH ARTIFICIAL SALIVA.** Mariano SCIAN, Emma Press, Jordan Jones, Lukas Braia, Lonneke Palmer, Joelle Carbonelle, Kirsten Lassiter and Lynn McFadden; Enthalpy Specialty Labs, Richmond, VA, USA
- 101 **EVALUATING SUBGINGIVAL MICROBIOME AFTER SWITCHING FROM CIGARETTES TO NICOTINE POUCHES.** Jianmin LIU¹, Jingzhu Wang¹, Jeffery S. Edmiston¹, Mohamadi A. Sarkar¹, Maria Gogova¹, Bruce Paster², Tsute Chen², Hatice Hasturk², Kimberly R. Milleman³, Jeff L. Milleman³ and Abbie L. Yoder³; ¹Altria Client Services, Richmond, VA, USA, ²The Forsyth Institute, Cambridge, MA, USA, ³Salus Research, Fort Wayne, IN, USA
- 102 **EFFECT OF ORAL NICOTINE PRODUCT USE ON CIGARETTE REDUCTION AND QUITTING IN A 6-MONTH PROSPECTIVE COHORT STUDY OF ADULT SMOKERS.** Elliott MCDOWELL¹, Jason N. Kennedy¹, Stacey A. Bell¹, Michael Feehan¹, Michelle Humphreys¹, Jessica Zdinak² Sarah Marking³, Andrew Joyce³ Rich Hill⁴, Jo-Ann Quinn⁴ and Chris Howard⁴; ¹Cerner Enviza, Kansas City, MO, USA, ²Applied Research and Analysis Company, Richmond, VA, USA, ³Consilium Sciences, Richmond, VA, USA, ⁴Rogue Holdings, Jacksonville, FL, USA
- 103 **EFFECT OF FRUIT AND MINT FLAVORED ORAL NICOTINE PRODUCT USE ON CIGARETTE REDUCTION AND QUITTING IN A 6-MONTH PROSPECTIVE COHORT STUDY OF ADULT SMOKERS.** Jason KENNEDY¹, Elliott H. McDowell¹, Michael Feehan¹, Stacey A. Bell¹, Michelle Humphreys¹, Sarah Marking², Andrew Joyce², Jessica Zdinak³ Rich Hill⁴, Jo-Ann Quinn⁴ and Chris Howard⁴; ¹Cerner Enviza, Kansas City, MO, USA, ²Consilium Sciences, Richmond, VA, USA, ³Applied Research and Analysis Company, Richmond, VA, USA, ⁴Rogue Holdings, Jacksonville, FL, USA

- 104 **DESIGN AND EXECUTION OF A NON-SITE-BASED, PROSPECTIVE, MULTI-WAVE COHORT STUDY TO ASSESS PATTERNS OF ORAL NICOTINE PRODUCT USE OVER 6-MONTHS AND ASSOCIATED COMBUSTIBLE CIGARETTE REDUCTION AND QUITTING.** Stacey BELL¹, Michelle Humphreys¹, Michael Feehan¹, Elliott McDowell¹, Sarah Marking², Andrew Joyce², Jessica Zdinak³, Richard Hill⁴, JoAnn Quinn⁴ and Chris Howard⁴; ¹Cerner Enviza, Kansas City, MO, USA, ²Consilium Sciences, Richmond, VA, USA, ³Applied Research and Analysis Company, Richmond, VA, USA, ⁴Rogue Holdings, Jacksonville, FL, USA
- 105 **ASYNCHRONOUS ONLINE FOCUS GROUPS: QUALITATIVE RESEARCH ON REDUCED-RISK NICOTINE PRODUCTS WITH UNDERSERVED OR HARD-TO-REACH POPULATIONS.** Neil SHERWOOD¹ and Cheryl K. Olson; ¹Neil Sherwood Consulting, Nyon, Vaud, Switzerland, ²McKinney Regulatory Science Advisors, San Carlos, CA USA
- 106 **NON-TARGET ANALYSIS SURVEY OF TOBACCO-FREE NICOTINE POUCHES.** Jacqueline COLLINS and Alexandra M. Martin; Enthelpy Specialty Labs, Richmond, VA, USA
- 107 **ABUSE LIABILITY ASSESSMENT OF VELO NICOTINE POUCHES IN COMPARISON TO COMBUSTIBLE CIGARETTES AND NICOTINE GUM.** MILLY KANOBE, Christie Y. Powell, Sarah A. Ayoku, Alison G. Gibson, Melissa A. Tapia, Kristen G. Jordan, Makena Patrudu, Brian M. Keyser, Jeffrey W. Coffield, and Sarah A. Baxter-Wright; RAI Services Company, Winston Salem, NC, USA

108 **OPTIMIZATION OF SEEDING DENSITY OF PRIMARY HUMAN GINGIVAL FIBROBLASTS FOR IN VITRO TOXICITY TESTING.** Xuefei CAO¹, Utkarsh Doshi¹, Kyeonghee M. Lee¹ and Manoochehr Khazaee²; ¹Altria Client Services, Richmond, VA, USA, ²Eurofins Lancaster Laboratories, Lancaster, PA, USA

***Session A
Agronomy
Session Chair: Rana
Tayyarah***

***Session B
Clinical, Behavioral &
Perception Research
Session Chair: Preston
Campbell***

2:10 PM Session Welcome Remarks

Session Welcome Remarks

2:15 PM 109 **INFLUENCES OF GENETICS AND NITROGEN APPLICATION RATE TO FLUE-CURED TOBACCO AGRONOMIC CHARACTERISTICS AND CHEMICAL CONSTITUENTS.**
Matthew VANN, NC State University, Raleigh, NC, USA

115 **SWITCHING AWAY FROM CIGARETTES ACROSS 24 MONTHS AMONG US ADULT SMOKERS WHO PURCHASED THE JUUL SYSTEM.**
Nicholas GOLDENSON¹, Saul Shiffman², Gem M. Le¹ and Ryan A. Black¹;
¹Juul Labs, Inc, Washington, DC, USA,
²PinneyAssociates, Pittsburgh, PA,

- 2:35 PM 110 **POTENTIAL ULTRA-LOW NICOTINE LIMIT IN TOBACCO – CAN WE MEET IT?** Anne FISHER¹, Colin Fisher¹, Barunava Patra¹, Huihua Ji¹, Jeffrey Kinney¹, Shengming Yang² and Stacey Slone¹; ¹University of Kentucky, Lexington, KY, USA, ²US Department of Agriculture, Fargo, ND, USA
- 116 **COMPARING ADULT SMOKERS WHO SWITCHED TO JUUL VS CONTINUING SMOKERS: BIOMARKERS OF EXPOSURE AND OF POTENTIAL HARM AND RESPIRATORY SYMPTOMS.** Saul SHIFFMAN¹, Douglas R. Oliveri², Nicholas I. Goldenson², Qiwei Liang², Ryan A. Black² and Snigdha Mishra²; ¹Pinney Associates, Bethesda, MD, USA, ²Juul Labs, Inc, Washington, DC, USA
- 2:55 PM 111 **ISOLATION AND SCREENING OF TSNAS DEGRADING STRAIN NI₃ FROM CIGAR TOBACCO LEAVES AND EXPLORATION OF ITS KEY GENES.** Ye CHANGWEN; Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, He Nan, China
- 117 **UTILIZING REAL-WORLD TOPOGRAPHY DATA TO DEFINE SMOKE MACHINE PUFFING REGIMEN FOR ENDS.** Robert UNDERLY and Randy Weirdman; RAI Services Company, Winston-Salem, NC, USA

- 3:15 PM 112 **CHARACTERIZATION OF FUNGAL COMMUNITY SUCCESSION AT DIFFERENT MILDEW STAGES DURING THE INDUSTRIAL FERMENTATION OF CIGAR TOBACCO LEAVES.** Huang KUO; Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, He Nan, China
- 118 **DESIGN OF A RANDOMIZED MULTI-SITE, OPEN-LABEL, 8-WEEK, ELECTRONIC NICOTINE DELIVERY SYSTEM (ENDS) ACTUAL USE STUDY.** Mandara SHETTY; British American Tobacco, Southampton, Hampshire, UK
- 3:35 PM **BREAK**
- 3:55 PM 113 **IDENTIFICATION AND VERIFICATION OF CIRC RNA RELATED TO NICOTINE BIOSYNTHESIS IN NICOTIANA TABACUM.** Jingjing JIN, Dehui Kong, Lijun Meng, Peng Lu, Jiemeng Tao, Chen Wang, Jianfeng Zhang and Peijian Cao; Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, China
- 119 **SWITCHING EXCLUSIVELY FROM SMOKING TO USING GLO RESULTS IN SIGNIFICANT, SUBSTANTIAL REDUCTIONS IN EXPOSURE TO CIGARETTE SMOKE TOXICANTS.** Nathan GALE, David Azzopardi, Mike McEwan, Filimon Meichanetzidis and Senthil Vel; B.A.T. (Investments) Ltd, Southampton, UK

4:15 PM 114 **BACTERIAL WILT DISEASE-INDUCED ADAPTIVE CHANGES OF THE STRUCTURE AND FUNCTION OF TOBACCO MICROBIAL COMMUNITY.** Jiemeng TAO¹, Mengli Gu¹, Peng Lu¹, Jingjing Jin¹, Qiansi Chen¹, Peijian Cao¹ Shizhou Yu² and Zhixiao Yan²; ¹Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, China, ²Guizhou Academy of Tobacco, Guiyang, China

4:35 PM

120 **APPLYING FACTOR ANALYSIS TO UNDERSTAND PRODUCT DIFFERENCES OBSERVED IN CLINICAL STUDIES.** Yisha HE, Jingzhu Wang, Lai Wei, Raheema Muhammad-Kah, Jeffery Edmiston, and Edward Largo; Altria Client Services, Richmond, VA, USA

121 **EVALUATING ORAL HEALTH AFTER SWITCHING FROM CIGARETTES TO NICOTINE POUCHES.** Jianmin LIU¹, Jingzhu Wang¹, Jeffery S. Edmiston¹, Mohamadi A. Sarkar¹, Maria Gogova¹, Kimberly R. Milleman², Jeffery L. Milleman² and Abigail L. Yoder²; ¹Altria Client Services, Richmond, VA, USA, ²Salus Research, Fort Wayne, IN, USA

ADJOURN

WEDNESDAY MORNING, SEPTEMBER 27, 2023

Joint Session

Symposium Panel: Assessment of ENDS Ingredients

Session Chair: Michael Oldham

- 8:45 AM Session Welcome Remarks
- 8:50 AM 122 **A TIERED APPROACH TO ENDS INGREDIENT ASSESSMENT.** Irene ABRAHAM; JT International, Geneva, Switzerland
- 9:05 AM 123 **ESTABLISHING AN ENDS IN VITRO AND IN VIVO INGREDIENT ASSESSMENT STRATEGY USING A TOOLBOX APPROACH.** Florence VONMOOS and Karsta Luettich; Philip Morris Products, Neuchatel, Switzerland
- 9:20 AM 124 **A PRODUCT STEWARDSHIP ASSESSMENT STRATEGY FOR E-LIQUIDS.** Liam SIMMS; Imperial Brands, Bristol, UK
- 9:35 AM 125 **NEW ASSESSMENT METHODS FOR ENDS INGREDIENTS.** Arno GUTLEB; Invitrolize, Belvaux, Luxembourg
- 9:55 AM 126 **EVALUATION OF SYNTHETIC COOLING AGENTS WS-3 AND WS-23 IN 90-DAY INHALATION TOXICITY STUDIES IN SPRAGUE DAWLEY RATS.** Richard SAVORY; B.A.T. (Investments) Ltd, Southampton, UK
- 10:10 AM 127 **TOXICOLOGICAL ASSESSMENT OF ELECTRONIC NICOTINE DELIVERY SYSTEMS USING SEVERAL 2D AND 3D IN VITRO CYTOTOXICITY AND GENOTOXICITY ASSAYS.** Robert LEVERETTE; RAI Services Company, Winston-Salem, NC, USA
- 10:25 AM Panel Discussion & Audience Q&A
- 10:55 AM ***LUNCH***

Session A
Symposium Panel:
Exploring Risk
Perceptions and Tobacco
Use Behavior
Session Chair: Elizabeth
Becker

Session B
MO, HTP, Other
Session Chair: Karl
Wagner

12:00 PM	Session Welcome Remarks	Session Welcome Remarks
12:05 PM	128 PERCEPTIONS OF NICOTINE AND TOBACCO PRODUCTS IN THE US ADULT POPULATION – A LATENT CLASS ANALYSIS. <u>Hui CHENG</u> ; Altria Client Services, Richmond, VA, USA	132 NICOTINE EXTRACTION FROM POLYPROPYLENE MODERN ORAL PACKAGING. <u>Owen BUSSEY</u> , Cody Perry and Serban Moldoveanu; Reynolds American, Winston Salem, NC, USA
12:20 PM	129 AN EXPLORATION ON RELATIVE HARM PERCEPTIONS OF PORTIONED ORAL NICOTINE PRODUCTS AMONG POTENTIALLY VULNERABLE POPULATIONS. <u>Christie POWELL</u> ¹ , Christie Y. Powell ¹ , Red Thaddeus D. Miguel ² and Isabella Steffensen ² ; ¹ RAI Services Company, Winston-Salem, NC, USA, ² Thera-Business Consulting, Ottawa, ON, Canada	133 DETECTION OF THE PRESENCE OF TOBACCO IN TEA BASED HEAT-NOT-BURN SMOKING DEVICES. <u>Serban MOLDOVEANU</u> ; Reynolds American, Winston Salem, NC, USA

12:35 PM 130 TBD

134 **PUFF-BY-PUFF
CHEMICAL
CHARACTERIZATION OF HEATED
TOBACCO
AEROSOL.** Kaitlyn
SUSKI, Brad
Ingebretsen, Raj Rao,
Josh Kurzman and
Emily Dong; Juul Labs,
Inc, Washington, DC,
USA

12:50 PM 131 FDA-CTP
Representative
(tentative)

135 **HOW FLUFFY IS
YOUR PACK?** JOHN
LAUTERBACH,
Lauterbach and
Associates, Deland, FL,
USA

1:05 PM Panel Discussion &
Audience Q&A

1:35 PM

Adjourn