



2019 CORESTA SMOKE-TECHNO JOINT STUDY GROUPS CONFERENCE - Hamburg, Germany - 6-10 October 2019

LIST OF ORAL / POSTER PRESENTATIONS

04/11/2019

Group	Num	ID	Session	Abstract Title	Authors	Source
ST	01	1432	Opening	United Nations Sustainable Development Goals and impacts of the tobacco and alternative product sectors	COLARD S.	MBA Corporate & Social Responsibility - Performance of the Organisations, Institute Leonard de Vinci, Paris-La Défense, France
ST	02	1439	Opening	Comparative assessment of selected compounds yields in heated tobacco products	JACCARD G.; TAFIN DJOKO D.; KORNELIOU A.; BELUSHKIN M.	PMI R&D, Philip Morris Products S.A., Neuchâtel, Switzerland
ST	03	1475	Opening	The effect of socio-economic inequalities: modelling of population health impact of introducing reduced-risk tobacco products into Germany	RYTSAR R.(1); DJURDJEVIC S.(1); NUSSBAUM A.(2); KAUL A.(3,4); BENNEWITZ E.(3,4)	(1) PMI R&D, Philip Morris Products S.A., Neuchâtel, Switzerland; (2) Philip Morris GmbH, Gräfelfing, Germany; (3) Saarland University, Department of Economics, Saarbrücken, Germany; (4) IPE Institute for Policy Evaluation, Frankfurt, Germany
ST	04	1425	Opening	Paper components for heated tobacco products (HTPs)	FRITZSCHING T.; VOLGGER D.	Papierfabrik Wattens GmbH & Co KG, Wattens, Austria
ST	05	1497	Aerosol Analysis (HTP)	Determination of ten kinds of polycyclic aromatic hydrocarbon in the aerosol of heat-not-burn products by SPME-GC-MS	SHEN Junyu; LIU Xin	Yunnan Reascend Tobacco Technology (Group) Co., Ltd, Kunming, P.R. China
ST	06	1592	Aerosol Analysis (HTP)	Heated tobacco product aerosol generation and aerosol analysis by gas chromatography flame ionisation and thermal conductivity detection	DUROT N.; ROUILLARD S.; RAVERDY-LAMBERT D.; BRENNER O.; LE MEN P.	SWM INTL c/o LTR Industries, Allonnes, France
ST	07	1496	Aerosol Analysis (HTP)	Quantitative determination and puff-by-puff analysis on the release pattern of nicotine and menthol in heat-not-burn tobacco material and emissions	LIU Shengyi; LI Jingjing; ZHU Libing; LIU Weijuan	(1) Ruvian Technology Ltd., Kunming, P.R. China; (2) Yunnan Reascend Tobacco Technology (Group) Co., Ltd, Kunming, P.R. China
ST	08	1546	Aerosol Analysis (HTP)	Effects of smoking parameters on aerosol delivery of next generation of Heated Tobacco Products (HTPs)	JIN S.J.; LIM G.H.; SHIN G.W.; SHIN S.H.; LEE J.M.	KT&G Research Institute, Daejeon, South Korea
ST	09	1578	CROM	The ABOUT™ Toolbox: toward the development of consumer-reported outcome measures that matter	CHREA C.(1); SPIES E.(1); AFOLALU E.(1); BACSO A.(1); CLERC E.(1); MAINY N.(1); BINGGELI P.(1); WEITKUNAT R.(1); ACQUADRO C.(2); SALZBERGER T.(3); CANO S.(4); ABETZ-WEBB L.(5); ROSE J.(6)	(1) PMI R&D, Philip Morris Products S.A., Neuchatel, Switzerland; (2) Mapi, an ICON plc Company, Lyon, France; (3) University of Economics and Business, Vienna, Austria; (4) ScaleReport, Ltd, Stotfold, U.K.; (5) Patient-Centered Outcomes Assessments, Ltd, Macclesfield Cheshire, U.K.; (6) Rose Research Center, Raleigh, U.S.A.
ST	10	1579	CROM	Development of the ABOUT™-Health & Functioning: results from the preparatory phase	SPIES E.(1); BACSO A.(1); CHREA C.(1); ABETZ-WEBB L.(2); AFOLALU E.(1); CLERC E.(1); WEITKUNAT R.(1)	(1) PMI R&D, Philip Morris Products S.A., Neuchatel, Switzerland; (2) Patient-Centered Outcomes Assessments, Ltd, Macclesfield Cheshire, U.K.
ST	11	1581	CROM	Development and validation of the ABOUT™-Dependence measurement instrument to assess perceived dependence on tobacco and nicotine products	AFOLALU E.(1); CHREA C.(1); SALZBERGER T.(2); ABETZ-WEBB L.(3); CANO S.(4); WEITKUNAT R.(1); ROSE J.(5)	(1) PMI R&D, Philip Morris Products S.A., Neuchatel, Switzerland; (2) University of Economics and Business, Vienna, Austria; (3) Patient-Centered Outcomes Assessments, Ltd, Macclesfield Cheshire, U.K.; (4) Modus Outcomes, Letchworth Garden City, U.K.; (5) Rose Research Center, Raleigh, U.S.A.
ST	12	1636	CROM	Review of current methodologies in evaluating abuse liability of nicotine and tobacco products in the U.S. regulatory environment	EVANS S.(1); KONG M.C.(2); CAMPBELL L.(2); SHERWOOD N.(3); PRASAD K.(4)	(1) Turning Point Brands, Louisville, KY, U.S.A.; (2) Altasciences Clinical Research, Laval, Canada; (3) Neil Sherwood Consulting, Nyon, Switzerland; (4) British American Tobacco, R&D, Millbrook, Southampton, U.K.
ST	13	1507	E-vapour 1	Importance of e-liquid preparation and stability characterization for a combinatorial safety assessment approach of flavors in e-liquids	GLABASNIA A.(1); DIANA P.(1); SMITH C.(2); MILLER J.H.(2); BIASIOLI M.(1); FRAUENDORFER F.(1); SCIUSCIO D.(1); MARTIN E.(1); POSPISIL P.(1); GUY P.(1); VANSCHUEUWIJCK P.(1); HOENG J.(1); KUMAR A.(2); LEE K.M.(2)	(1) PMI R&D, Philip Morris Products S.A., Neuchâtel, Switzerland; (2) Altria Client Services LLC, Richmond, VA, U.S.A.
ST	14	1505	E-vapour 1	Study on capillary-evaporation effect in porous medium of electronic cigarettes	GAO Yihan(1); SHEN Yi(1); LI Dian(2); LU Li(2); LI Zhihua(2); WU Jinlu(3); GAO Naiping(3)	(1) Shanghai New Tobacco Product Research Institute, Shanghai, P.R. China; (2) China Tobacco Guangxi Industrial Co., Ltd., Nanning, P.R. China; (3) Tongji University, Shanghai, P.R. China
ST	15	1493	E-vapour 1	Crystal structure of nicotine gentsiate and its permeability in pig buccal mucosa	YANG Ji; MIAO Mingming; CHEN Yongkuan; LIU Zhihua; ZHAO Yang; WU Yiqin; LIU Chunbo; YANG Liu; ZHAO Hui; SHEN Qinpeng; DUAN Yuanxing; GONG Xiaowei	R&D Center, China Tobacco Yunnan Industrial Co., Ltd., Kunming, P.R. China
ST	16	1440	E-vapour 1	Selected harmful or potentially harmful constituent yields in the aerosol of commercial closed systems electronic cigarettes	KORNELIOU A.; JACCARD G.; BELUSHKIN M.; TAFIN DJOKO D.; ESPOSITO M.; JEANNET C.; LAZZERINI M.	PMI R&D, Philip Morris Products S.A., Neuchâtel, Switzerland
ST	17	1482	In vitro Testing	Comparison of in vitro toxicity of heated tobacco products and combustible cigarettes	JANG M.; PARK C.H.; YOO J.H.; GWAK H.M.; SOHN H.O.	KT&G Research Institute, Daejeon, South Korea



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ST	18	1490	In vitro Testing	Human precision-cut lung slices as a screening tool: increased throughput, cryopreservation, and detection of DNA adducts for next generation tobacco product evaluation	BEHRING H.P.(1); DESAI P.(1); AMIN K.(2); BALBO S.(3); HECHT S.S.(2); SHEEHAN D.(1); CASTRO N.(1); ALLEN D.(4)	(1) Institute for In Vitro Sciences, Inc., Gaithersburg, MD, U.S.A.; (2) University of Minnesota, Division of Environmental Health Sciences, Minneapolis, MN, U.S.A.; (3) University of Minnesota, Department of Laboratory Medicine and Pathology, Minneapolis, MN, U.S.A.; (4) Integrated Laboratory Systems, Inc., Morrisville, NC, U.S.A.
ST	19	1514	In vitro Testing	In vitro biological impact evaluation of whole cigarette smoke by using pathway-based approach	CHEN H.(1,2); CHEN X.(1,2); SHEN Y.(3); LIU F.(1,2); YIN X.(1); LIU L.(1); TIMKO M.(4); QI H.(5); FAN L.(1,2,3)	(1) Institute of Crop Science, Zhejiang University, Hangzhou, P.R. China; (2) Research Center for Air Pollution and Health, Zhejiang University, Hangzhou, P.R. China; (3) Institute of Bioinformatics, Zhejiang University, Hangzhou, P.R. China; (4) Department of Public Health Sciences, School of Medicine, University of Virginia, Charlottesville, VA, U.S.A.; (5) Department of Pathology and Pathophysiology, School of Basic Medical Sciences, Zhejiang University, Hangzhou, P.R. China
ST	20	1472	In vitro Testing	On the scientific value and practical utility of the comparative tests of nicotine-free aerosols in vitro and in vivo	TROFIMOV A.V.(1); MENSHOV V.A.(1); BERDNIKOVA N.G.(2); YABLONSKAYA O.I.(1)	(1) Emanuel Institute of Biochemical Physics, RAS, Moscow, Russia; (2) I.M. Sechenov First Moscow State Medical University, Moscow, Russia
ST	21	1501	Product Design	A model based on cigarette density segmentation method for predicting burning cone drop rate of slim cigarettes	TAN Chao; WANG Shitai; JIN Yong; CHEN Qian; TAN Haifeng; LI Ke; FAN Hongmei; LIU Qi; LI Rui; YU Saibo	China Tobacco Hunan Industrial Co., Ltd. of CNTC, Hunan, P.R. China
ST	22	1548	Product Design	Study of combustion patterns for ignition propensity test using several kinds of substrates and cigarettes	LEE D.H.; KIM Y.S.; SHIN H.J.; LEE M.Y.	KT&G Research Institute, Daejeon, South Korea
ST	23	1426	Product Design	Functional filter plug wrap paper for control of the thermal energy of the aerosol from heated tobacco products (HTPs)	LINDNER M.; LEICHSENING N.	(1) TANNPAPIER GmbH, Traun, Austria; (2) Hauni Maschinenbau GmbH, Hamburg, Germany
ST	24	1517	Product Design	Vapour temperature in polylactic acid (PLA) free heat-not-burn products	MOSTOVOIUS V.; TUCINSKAS G.	Nemuno Banga LLC, Lentvaris, Lithuania
ST	26	1494	Tobacco Analysis	Digital evaluation of tobacco style and quality by using a support vector machine algorithm with thermal analysis spectra	Li Qiaoling(1); YIN Chao(2); ZHENG Quanxing(1); YU Yumei(1); LIU Xiucui(1); DENG Xiaohua(1); ZHANG Tinggui(1); ZHONG Jiawei(1); WANG Le(3); XU Hanchun(1); LIN Kai(1); MA Pengfei(1); HUANG Chaozhang(1); LI Bin(3); WU Anan(2)	(1) Technology Center, China Tobacco Fujian Industrial Co., Ltd., Xiamen, Fujian, P.R. China; (2) College of Chemistry and Chemical Engineering, Xiamen University, Xiamen, Fujian, P.R. China; (3) Key Laboratory of Tobacco Processing Technology of CNTC, Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, P.R. China
ST	27	1499	Tobacco Analysis	Determination of petroleum ether extracts in flue-cured tobacco leaves by NIR combined with random frog wavelength selection method	QIU Changgui(1,2); LIU Ze(3); CHEN Shi(4); LIU Jing(1,2); WANG Jiajun(3); ZHANG Wen(1,2); YANG Panpan(1,2)	(1) Yunnan Reascend Tobacco Technology (Group) Co., Ltd., Kunming, P.R. China; (2) Yunnan Comtestor Company, Kunming, P.R. China; (3) Technology Center, China Tobacco Yunnan Industrial Co., Ltd., Kunming, P.R. China; (4) Bijie Cigarette Factory, China Tobacco Guizhou Industrial Co., Ltd., Bijie, P.R. China
ST	28	1502	Tobacco Analysis	Simultaneous determination of twenty amino acids in tobacco leaves by multiple heart-cut two-dimensional liquid chromatography	WANG Yangzhong; QI Dawei; WU Da; LIU Baizhan	Technology Center, Shanghai Tobacco Group Co., Ltd., Shanghai, P.R. China
ST	29	1555	Tobacco Analysis	Thermochemical and thermophysical mapping of burning superslim and kingsize cigarettes	EHLERT S.(1,3); CUI H.(2); HEIDE J.(3); XIE F.(2); DENG N.(2); LIU C.(4); McADAM K.(4); WALTE A.(1); ZIMMERMANN R.(3)	(1) Photonion GmbH, Schwerin, Germany; (2) Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, Henan, P.R. China; (3) University of Rostock, Dept. of Analytical Chemistry, Rostock, Germany; (4) British American Tobacco, R&D Centre, Southampton, U.K.
ST	30	1622	E-vapour 2	Assessment of within-package and lot-to-lot variability associated with quartz collection pads in the determination of metals in aerosol	WAGSTAFF W.; JOZA P.; PAICO-AVILEZ H.; ZHENG T.; DONISA C.; RODRIGUEZ-LAFUENTE A.	Labstat International Inc., Kitchener, ON, Canada
ST	31	1587	E-vapour 2	Impact of device variability on the determination of aldehyde compounds in e-cigarette emissions	GILLMAN I.G.; PENNINGTON A.S.C.; HUMPHRIES K.E.	Enthalpy Analytical, LLC, Durham NC, U.S.A.
ST	34	1567	E-vapour 2	E-cigarette data standards and open platform architecture for risk and compliance management, supply chain optimization, and real-time benchmarking	CAPONE M.J.	HAUNI Maschinenbau GmbH, Hamburg, Germany



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ST	35	1429	Cigars	Chemometric and analytical tools directed to improve the selection of raw materials for long-filler cigar manufacture	BORGES MIRANDA A.(1); ÁLVAREZ PRIETO M.(2,4); PÉREZ MARTÍNEZ C.(3); JIMÉNEZ CHACÓN J.(4); MOREJÓN FUENTES O.(1); GONZÁLEZ DÍAZ M.(1); HERNANDEZ REYES M.E.(1); MARQUEZ LEYVA I.(1); HERNÁNDEZ SANTANA Y.(1)	(1) Instituto de Investigaciones del Tabaco, San Antonio de los Baños, Artemisa, Cuba; (2) Facultad de Química, Universidad de La Habana, Departamento de Química Analítica, La Habana, Cuba; (3) Facultad de Química, Universidad de La Habana, Departamento de Química-Física, La Habana, Cuba; (4) Laboratorio Universitario de la Composición y Estructura de la Sustancia (LUCES), Universidad de La Habana, La Habana, Cuba
ST	36	1450	Cigars	HPHC market map study for U.S. machine-made cigars – Part 1: Physical properties, filler and smoke HPHC variability	WAGNER K.A.; MORTON M.J.; OLEGARIO R.M.; BAKER L.L.; SMITH J.H.	Altria Client Services LLC, Richmond, VA 23219, U.S.A.
ST	37	1456	Cigars	HPHC market map study for U.S. machine-made cigars – Part 2: Predictive models	MORTON M.J.; WAGNER K.A.; OLEGARIO R.M.; BAKER L.L.; SMITH J.H.	Altria Client Services LLC, Richmond, VA 23219, U.S.A.
ST	38	1598	Cigars	Optimized method for determination of selective phenolic compounds in cigarette and cigar smoke by UHPLC-FLD	JIN X.C.; HURST T.J.; WAGNER T.J.	Altria Client Services, Research, Development & Regulatory Affairs, Richmond, VA, U.S.A.
ST	39	1525	E-vapour 3	The mechanism of evaporation in conventional wick-and-coil e-cigarettes compared to an alternative volumetric heater approach	SCHMIDT R.; <u>KESSLER M.</u>	HAUNI Maschinenbau GmbH, Hamburg, Germany
ST	40	1528	E-vapour 3	A new approach for the determination of glycols and sugars in tobaccos and e-liquids	LAUTERBACH J.	Lauterbach & Associates, LLC, Macon, GA, U.S.A.
ST	41	1487	E-vapour 3	Human chemical signature – investigation on the influence of human presence and selected activities on concentrations of airborne constituents	MITOVA M.I.; GOUJON-GINGLINGER C.; ROTACH M.; MAEDER S.	PMI R&D, Philip Morris Products S.A., Neuchâtel, Switzerland
ST	42	1509	E-vapour 3	Study on aerosol deposition in the respiratory tract of consumers using cigarette, electronic cigarette or heat-not-burn product	CUI Huapeng(1); LI Yawen(1); FAN Meijuan(1); CHEN Li(1); SI Xiaoxi(2); HAN Jingmei(2); CAI Junlan(1); LI Xiang(1); LIU Shaofeng(1); XIE Fuwei(1); XIE Jianping(1)	(1) Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, P.R. China; (2) R&D Center, China Tobacco Yunnan Industrial Co., Ltd., Kunming, P.R. China
ST	43	1461	E-vapour 3	The value of integrated testing	SMITH S.J.; ROSSER C.; ASHBY I.J.	Cambridge Consultants, Cambridge, U.K.
ST	44	1629	Biomarkers 1	Lung biomarkers of harm/effect for tobacco regulatory research: opportunities and challenges – a literature review	MAKENA P.(1); EDMISTON J.(2); BEATTIE E.(3); MASON E.(4); McEWAN M.(5); PRASAD K.(5)	(1) RAI Services Company, Winston-Salem, NC, U.S.A.; (2) Altria Client Services LLC, Richmond, VA, U.S.A.; (3) Cliantha Research Limited, Canada; (4) Imperial Brands PLC, Bristol, U.K.; (5) British American Tobacco (Investments) Limited, Southampton, U.K.
ST	45	1630	Biomarkers 1	Meta-analysis of two biomarkers of exposure of tobacco products	AYALA-FIERRO F.(1); ELAMIN A.(2); FROST-PINEDA K.(3); JIN T.(3); PRASAD G.L.(3); SARKAR M.(4); SCHMIDT E.(3); <u>VERRON T.</u> (5)	(1) ITG Brands LLC, Greensboro, NC, U.S.A.; (2) PMI R&D, Philip Morris Products S.A., Neuchâtel, Switzerland; (3) RAI Services Company, Winston-Salem, NC, U.S.A.; (4) Altria Client Services LLC, Richmond, VA, U.S.A.; (5) SEITA - Imperial Brands, Paris, France
ST	46	1508	Biomarkers 1	Analysis of aroma components in oral fluids of cigarette smokers	FEI Ting; BI Yanju; LIANG Demin; QI Dawei; TAO Liqi; YU Jie; WU Da; LIU Baizhan	Technology Center, Shanghai Tobacco Group Co., Ltd., Shanghai, P.R. China
ST	47	1635	Biomarkers 1	A high-throughput and sensitive bioanalytical method for quantification of nicotine and cotinine in rat/mouse plasma using reversed-phase liquid chromatography–tandem mass spectrometry and its application in inhalation study sample analysis	SAXENA A.(1); ZHANG Chunyan(1); CIPUTRA T.(1); CHNG Yun Xuan(1); PHILLIPS B.(1); VANSCHEEUWIJCK P.(2)	(1) PMI R&D, Philip Morris International Research Laboratories Pte. Ltd., Singapore; (2) PMI R&D, Philip Morris Products S.A., Neuchâtel, Switzerland
ST	48	1504	Smokeless Tobacco	Analysis of four volatile nitroso-amines, four alkaloids, 18 polycyclic aromatic hydrocarbons in oral tobacco products based on simultaneous extraction technique and GC-MS/MS detection	WANG Xiaoyu(1); QIN Yaqiong(1); XIE Fuwei(1); LI Dongliang(2); SHEN Yi(2); GUO Junwei(1); LIU Shaofeng(1); LUO Cheng(2); PAN Lining(1); WANG Sheng(1)	(1) Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, P.R. China; (2) Technology Center, China Tobacco Sichuan Industrial Co., Ltd., Chengdu, P.R. China
ST	49	1569	Smokeless Tobacco	Automation of analytical procedures for mycotoxins, acrylamide, aldehydes and NDMA using Tecan Fluent 1080 automation workstation system	AVAGYAN R.; BRUNO O.; <u>PATRING J.</u> ; LINDHOLM J.	Swedish Match North Europe AB Europe Division, Stockholm, Sweden
ST	50	1452	Smokeless Tobacco	In vitro dissolution testing of nicotine release from smokeless tobacco products	MILLER J.H.; DANIELSON T.L.; ALDEEK F.; PITHAWALLA Y.B.; WILKINSON C.T.; BROWN A.P.; WAGNER K.A.	Altria Client Services LLC, Richmond, VA 23219, U.S.A.
ST	51	1616	Smokeless Tobacco	Examining the impact of very low nicotine content (VLNC) on cigarette use patterns – a review of current evidence and suggestions for further research	SHERWOOD N.	Neil Sherwood Consulting, Nyon, Switzerland



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ST	52	1423	Biomarkers 2	Application of differential ion mobility spectrometry-tandem mass spectrometry for improved assay selectivity and sensitivity in the quantitation of tobacco biomarkers NNN, NNAL and 2-/3-HPMA in human urine	PLOMLEY J.B.	Altasciences, Laval, QC, Canada
ST	53	1574	Biomarkers 2	NNN – a suitable biomarker of exposure from smoke and new nicotine delivery products?	PLUYM N.; TAUCHER J.; SCHERER G.; SCHERER M.	ABF Analytisch-Biologisches Forschungslabor GmbH, Planegg, Germany
ST	54	1557	Biomarkers 2	Clinical biomarkers of compliance for use in potentially reduced-risk product switching studies	McEWAN M.(1); GALE N.(1); HARDIE G.(1); SCHERER M.(2); PLUYM N.(2); EBAJEMITO J.K.(1); CAMACHO O.M.(1); GRIFFITHS A.(1); PROCTOR C.J.(1)	(1) British American Tobacco (Investments) Limited, Research and Development, Southampton, U.K.; (2) ABF GmbH, Planegg, Germany
ST	55	1600	Biomarkers 2	An open-label, parallel-group, controlled study to evaluate changes in biomarkers of cigarette smoke exposure and biomarkers of potential harm in adult smokers who completely switch to using e-vapor products for 24 weeks	EDMISTON J.; OLIVERI D.; LIANG Q.; SARKAR M.	Altria Client Services LLC, Center for Research and Technology, Richmond, VA, U.S.A.
ST	56	1506	Biomarkers 2	Effects of acidic components in cigarette smoke on lipid metabolism in salivary glands of rats	SHA Yunfei; LIANG Demin; WU Da; LIU Baizhan	Technology Center, Shanghai Tobacco Group Co., Ltd., Shanghai, P.R. China
STW	01	1572	Workshop NGTX	The application of in vitro Toxicity Testing in 21 Century (TT21C) for Next Generation Products	SIMMS L.(1); TRELLES STICKEN E.(2)	(1) Imperial Brands PLC, Bristol, U.K.; (2) Reemtsma Cigarettenfabriken GmbH (an Imperial Brands PLC Company), Hamburg, Germany
STW	02	1549	Workshop NGTX	Contemporary high-content screening approaches to assess the biological impact of single compounds and complex mixtures in vitro	FRENTZEL S.(1); THORNE D.(2); MARESCOTTI D.(1); TAYLOR M.(2); BOVARD D.(1); MORELLI M.(1); MATHIS C.(1); HOENG J.(1); GACA M.(2); PEITSCH M.C.(1); PROCTOR C.J.(2)	(1) PMI R&D, Philip Morris Products S.A., Neuchâtel, Switzerland; (2) British American Tobacco, R&D Centre, Southampton, U.K.
STW	03	1515	Workshop NGTX	Organotypic in vitro models for assessment of biological impact	ITO S.	Japan Tobacco Inc., Scientific Product Assessment Center, Yokohama, Kanagawa, Japan
STW	04	1550	Workshop NGTX	Multi-organ-on-a-chip platforms to assess the biological impact of toxicants as well as PBPK properties in vitro	FRENTZEL S.; BOVARD D.; SANDOZ A.; LUETTICH K.; HOENG J.; PEITSCH M.C.	PMI R&D, Philip Morris Products S.A., Neuchâtel, Switzerland
STW	05	1640	Workshop Pop. Modelling	Introduction to statistical population modeling of tobacco products and their impact on health	SHIFFMAN S.	Pinney Associates, Pittsburgh, PA, U.S.A.
STW	06	1637	Workshop Pop. Modelling	Statistical modeling in support of a population health perspective	CURTIN G.	RAI Services Company, Winston-Salem, NC, U.S.A.
STW	07		Workshop Pop. Modelling	Refining the modeling assumptions to understand the population health impact after introducing a reduced-risk product into a market	BAKER G.	Philip Morris Products S.A., Lausanne, Switzerland
STW	08	1638	Workshop Pop. Modelling	Modeling the impact of a tobacco product with a modified risk claim on population health: the role of sensitivity analyses	MUHAMMAD-KAH R.; PITHAWALLA Y.B.; BLACK R.; WEI L.; HANNEL T.; SARKAR M.	Altria Client Services LLC, Richmond, VA 23219, U.S.A.
ST SUST	01		Sustainability Forum	Measuring the population's use of specific brands, makes an models of vaping devices and e-liquids	RUSSELL C.	Centre for Substance Use Research (CSUR), Glasgow, Scotland
ST SUST	02		Sustainability Forum	The risk continuum	THOMPSON J.	Imperial Brands PLC, Bristol, U.K.
ST SUST	04		Sustainability Forum	Green House Gas (GHG) emissions: an industry perspective	RAVERDY-LAMBERT D.	SWM International, Le Mans, France
STPOST	01	1428	Poster	Methods to evaluate the heat resistance of heat-not-burn cigarette paper	WEN Siru; BAI Liangliang; ZHANG Chenxi	Mudanjiang Hengfeng Paper Co., Ltd, Mudanjiang, P.R. China
STPOST	02	1513	Poster	Electro-thermal simulation analysis of heaters in tobacco heating devices	SUN Zhiwei(1); WANG Wei(1); DU Wen(1); WEN Jianhui(1); XIE Guoyong(1); WANG Zhiguo(1); DAI Hongliang(2)	(1) China Tobacco Hunan Industrial Co., Ltd., Changsha, P.R. China; (2) College of Mechanical and Vehicle Engineering, Hunan University, Changsha, P.R. China
STPOST	03	1531	Poster	Measurement of temperature regulation performance of the JUUL nicotine salt pod system	ALSTON W.	JUUL Labs, San Francisco, CA, U.S.A.
STPOST	05	1530	Poster	Computational simulation of aerosol generation and temperature regulation performance of nicotine salt pod system	BLACK W.; ALSTON W.; HOLLOWAY G; ZHANG J.T.	JUUL Labs, San Francisco, CA, U.S.A.
STPOST	06	1599	Poster	Correlation between heating temperature of the JUUL e-cigarette and carbonyl formation	MOGADDEDI H.; MYERS D.; JAMESON B.; HATTON C.; BHAT N.	JUUL Labs, San Francisco, CA, U.S.A.
STPOST	07	1618	Poster	HPHC analysis of seven flavors of a temperature-regulated nicotine salt-based pod system	COOK D.(1); HIRAKI B.(1); MISRA M.(1); GILLMAN I.G.(2)	(1) JUUL Labs, San Francisco, CA, U.S.A.; (2) Enthalpy Analytical, LLC, Richmond, VA, U.S.A.
STPOST	08	1603	Poster	Puff-by-puff analysis of carbon monoxide yield for THP systems	TINDALL I.; MASON T.; OKPEH J.; CRUMPLER L.	Cerulean, Milton Keynes, U.K.
STPOST	09	1604	Poster	Considerations when determining yields from THP systems	TINDALL I.; OKPEH J.; CRUMPLER L.	Cerulean, Milton Keynes, U.K.



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STPOST	10	1500	Poster	A study on production and delivery of volatile aroma substances from heat-not-burn products' tobacco material to emissions	LI Jingjing; LIU Shengyi; ZHU Libing; LIU Weijuan	(1) Ruvian Technology Ltd., Kunming, P.R. China; (2) Yunnan Reascend Tobacco Technology (Group) Co., Ltd, Kunming, P.R. China
STPOST	11	1492	Poster	Simultaneous determination analysis of glycerol, propylene glycol, nicotine, menthol and water by discharge ionisation detector on gas chromatography	SHIMAZU A.; OMORI F.	Japan Tobacco Inc., Product Quality Research Center, Tokyo, Japan
STPOST	12	1524	Poster	Determination of nicotine in gas vapour phase in phosphate buffered saline by UHPLC-MS/MS	HOLLINGS M.(1); THOMPSON N.(2); LARNER J.(1); CLEMENTS J.(1)	(1) Covance Laboratories Ltd, Harrogate, North Yorkshire, U.K.; (2) Broughton Nicotine Services, Earby, Lancashire, U.K.
STPOST	13	1575	Poster	Analysis of propylene oxide and glycidol in tobacco smoke and e-cigarette vapour	LANDMESSER A.; SCHERER G.; PLUYM N.; SCHERER M.	ABF Analytisch-Biologisches Forschungslabor GmbH, Planegg, Germany
STPOST	14	1624	Poster	Determination of untargeted compounds in e-liquids using high performance liquid chromatography-time of flight-mass spectrometry (LC-ToF-MS)	CHALCRAFT K.; JOZA P.; BIERNACKA P.; LI D.	Labstat International Inc., Kitchener, ON, Canada
STPOST	15	1529	Poster	Real-time light scattering instrument for measurement of e-vapor size and concentration with no dilution	HOLVE D.; HOORNSTRA J.	EnviroMetrix Instruments LLC, Berkeley, CA, U.S.A.
STPOST	18	1441	Poster	Comparison of a flame ionization detector (GC/FID) to a nitrogen-phosphorus detector (GC/NPD) for gas chromatographic determination of nicotine in conventional and ultra-low nicotine tobacco blends	STINSON A.; STEELMAN D.; CLARK T.J.	Liggett Group LLC, 100 Maple Lane Mebane NC, U.S.A.
STPOST	19	1554	Poster	On-line puff resolved analysis of cigarette smoke for product profiling using soft-photoionisation mass spectrometry	EHLERT S.(1,2); HEIDE J.(2); BENTE v FROWEIN M.(1); WALTE A.(1); ZIMMERMANN R.(2)	(1) Photonion GmbH, Schwerin, Germany; (2) University of Rostock, Dept. of Analytical Chemistry, Rostock, Germany
STPOST	20	1556	Poster	On-line puff resolved analysis of cigarette smoke, e-cigarette vapour and vapour of tobacco heating products	EHLERT S.(1,2); HEIDE J.(1); WALTE A.(2); ZIMMERMANN R.(1)	(1) University of Rostock, Dept. of Analytical Chemistry, Rostock, Germany; (2) Photonion GmbH, Schwerin, Germany
STPOST	21	1615	Poster	Determination of nitrogen oxides in the vapour phase of cigarette smoke: comparison of two methods	SCHADE K.; KITTA A.	Borgwaldt KC GmbH, Hamburg, Germany
STPOST	22	1605	Poster	Determination of primary aromatic amines in smokeless tobacco products	CHEETHAM A.G.; MARTIN A.M.	Enthalpy Analytical, LLC, Richmond, VA, U.S.A.
STPOST	23	1442	Poster	Determination of three isothiazolinone fungicides content in tobacco paper by ultrasonic extraction coupled with gas chromatography-mass spectrometry	ZHANG Chenxi; DU Xiansheng; LIU Chuanhai	Mudanjiang Hengfeng Paper Co., Ltd., Mudanjiang, Heilongjiang, P.R. China
STPOST	24	1484	Poster	A preliminary comparison of flavoured waterpipe tobacco aerosol with cigarette smoke - Part 1: "Tar", nicotine and carbon monoxide (TNCO) machine derived yields	WILKINSON P.	Al Fakher Tobacco Factory F.Z.E, Ajman, United Arab Emirates
STPOST	25	1485	Poster	A preliminary comparison of flavoured waterpipe tobacco aerosol with cigarette smoke - Part 2: Hoffmann analytes machine derived data	WILKINSON P.	Al Fakher Tobacco Factory F.Z.E, Ajman, United Arab Emirates
STPOST	27	1553	Poster	Next generation product aerosol bubbled extracts show little to no effect in high content screening endpoints when compared to cigarette smoke bubbled extracts	TRELLES STICKEN E.(1); WIECZOREK R.(1); BODE L.M.(1); SIMMS L.(2); STEVENSON M.(2)	(1) Reemtsma Cigarettenfabriken GmbH (an Imperial Brands PLC Company), BioToxLab, Hamburg, Germany; (2) Imperial Tobacco Limited, In vitro Research, Bristol, U.K.
STPOST	28	1516	Poster	The in vitro biological assessment of a tobacco heating product and comparison with cigarette smoke	TAYLOR M.; BREHENY D.; ADAMSON J.; BOZHILOVA S.; JAUNKY T.; SANTOPIETRO S.; TERRY A.; THORNE D.; GACA M.	British American Tobacco, Southampton, U.K.
STPOST	29	1518	Poster	Reversibility of in vitro biological effects in cigarette smoke-exposed 3D lung tissues following switching to a tobacco heating product	HASWELL L.E.; BREHENY D.; CORKE S.; JAUNKY T.; SANTOPIETRO S.; BAXTER S.; MINET E.; THORNE D.; GACA M.	British American Tobacco, Southampton, U.K.
STPOST	30	1519	Poster	In vitro RNA-seq-based toxicogenomics assessment shows reduced biological effect of tobacco heating products when compared to cigarette smoke	MEREDITH S.; HASWELL L.E.; CORKE S.; VERRASTRO I.; BAXTER A.; BANERJEE A.; ADAMSON J.; JUANKY T.; PROCTOR C.J.; MINET E.; GACA M.	British American Tobacco, Southampton, U.K.
STPOST	31	1522	Poster	Comparative in vitro toxicological evaluation of novel tobacco heating product	THORNE D.; BREHENY D.; PROCTOR C.J.; GACA M.	British American Tobacco, Southampton, U.K.
STPOST	32	1631	Poster	Enumeration of TBNK cells: A case for a bioanalytical assay to support clinical studies for the development of modified risk tobacco products	NEWLAND K.; MILLER P.; FARMEN R.	Celerion, Inc., Lincoln, NE, U.S.A.



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STPOST	33	1588	Poster	Quantitative risk assessment (QRA) indicates reduced risk potential for carcinogenic and non-carcinogenic effects of the aerosol of the Next Generation Product compared to reference cigarettes	AYALA-FIERRO F.(1); CZEKALA L.(2); SIMMS L.(2); RUDD K.(2); CAVA G.(2); STEVENSON M.(2)	(1) ITG Brands LLC, Greensboro, NC, U.S.A.; (2) Imperial Brands PLC, Bristol, U.K.
STPOST	34	1570	Poster	Next generation product aerosols induce lower biological activity than combusted cigarettes: a comparison of in vitro cell migration in the scratch wound assay	RUDD K.(1); BUDDE J.(2); TRELLES STICKEN E.(2); WIECZOREK R.(2); SIMMS L.(1); STEVENSON M.(1)	(1) Imperial Brands PLC, Bristol, U.K.; (2) Reemtsma Cigarettenfabriken GmbH (an Imperial Brands PLC Company), Hamburg, Germany
STPOST	35	1619	Poster	Neutral red uptake (NRU) cytotoxicity analysis of aerosol generated from a temperature-regulated nicotine salt based product utilizing cotton wicking material	COOK D.(1); HIRAKI B.(1); MISRA M.(1); GILLMAN I.G.(2)	(1) JUUL Labs, San Francisco, CA, U.S.A.; (2) Enthalpy Analytical, LLC, Richmond, VA, U.S.A.
STPOST	36	1489	Poster	Use of ex vivo precision-cut lung slices as a screening tool for potential respiratory toxicity of e-liquids	BEHRING H.P.(1); SHEEHAN D.(1); AMIN K.(2); LEE K.M.(3); OLDDHAM M.(4); RAABE H.(1)	(1) Institute for In Vitro Sciences, Inc., Gaithersburg, MD, U.S.A.; (2) University of Minnesota, Minneapolis, MN, U.S.A.; (3) Altria Client Services, Richmond, VA, U.S.A.; (4) former Altria Client Services employee
STPOST	37	1552	Poster	Use of cell media nicotine concentration as a marker to predict cells surface deposited nicotine in transwells after fresh smoke/aerosol exposure	WIECZOREK R.(1); TRELLES STICKEN E.(1); BODE L.M.(1); SIMMS I.(2)	(1) Reemtsma Cigarettenfabriken GmbH (an Imperial Brands PLC Company), Hamburg, Germany; (2) Imperial Tobacco Limited, Bristol, U.K.
STPOST	38	1458	Poster	In vitro cytotoxicity and genotoxicity of representative e-liquid flavor mixtures	DOSHI U.; ZHANG J.; KUMAR A.; LEE K.M.	Altria Client Services LLC, Richmond, VA 23219, U.S.A.
STPOST	39	1444	Poster	Risk assessment of a novel tobacco vapour product using ToxTracker® assay and high content screening in vitro	MUNAKATA S.; ERAMI K.; HASHIZUME T.	Japan Tobacco Inc., R&D Group, Scientific Product Assessment Center, Yokohama, Kanagawa, Japan
STPOST	40	1479	Poster	A seven-month systems toxicology inhalation study in C57BL/6 mice demonstrates reduced pulmonary inflammation and emphysema following smoking cessation or switching to e-vapor aerosol exposures	KUMAR A.(1); KOGEL U.(2); TALIKKA M.(2); SKOWRONEK A.(3); HOENG J.(2); PEITSCH M.C.(2); LEE K.M.(1)	(1) Altria Client Services LLC, Richmond, VA, U.S.A.; (2) Philip Morris Products S.A., R&D, Neuchâtel, Switzerland; (3) Battelle, West Jefferson, OH, U.S.A.
STPOST	41	1595	Poster	Sharing and reusing data: toxicology assessment meta-analysis of various e-liquids and heat-not-burn platforms with INTERVALS datasets	STAN A.; BOUÉ S.; HOENG J.; PEITSCH M.C.	PMI R&D, Philip Morris Products S.A., Neuchâtel, Switzerland
STPOST	42	1445	Poster	Characterization of whole mainstream smoke/aerosol delivery within the Vitrocell® Ames 48 high throughput exposure module using different tobacco product types	LEVERETTE R.(1); KEYSER B.(1); SEYMOUR A.(2); HOLLINGS M.(2)	(1) RAI Services Company, Scientific & Regulatory Affairs, Winston-Salem, NC, U.S.A.; (2) Covance Laboratories Ltd, Otley Road, Harrogate, North Yorkshire, U.K.
STPOST	43	1568	Poster	Dosimetric analysis of aerosol generated by a Vitrocell® VC10® Smoking Robot – investigations on dose dependency and consistency of application	SEYMOUR A.; HOLLINGS M.; LARNER J.; CLEMENTS J.	Covance Laboratories Ltd, Harrogate, North Yorkshire, U.K.
STPOST	44	1565	Poster	In vitro testing of an ethanol collection method combining particulate and gas-vapor phase components: in vitro micronucleus assay	SUKKA-GANESH B.; BHARTI S.K.; SCIAN M.J.; GILLMAN I.G.	Enthalpy Analytical, LLC, Henrico, VA, U.S.A.
STPOST	45	1589	Poster	In Vitro testing of an ethanol collection method combining particulate and gas-vapor phase components: Bacterial Reversion Mutation (Ames) Assay	BHARTI S.K.(1); SUKKA-GANESH B.(1); SCIAN M.J.(1); GILLMAN I.G.(1)	Enthalpy Analytical, LLC, Henrico, VA, U.S.A.
STPOST	46	1558	Poster	In vitro testing of an ethanol collection method combining particulate and gas-vapor phase components: neutral red assay	SCIAN M.J.; SUKKA-GANESH B.; BHARTI S.K.; GILLMAN I.G.	Enthalpy Analytical, LLC, Henrico, VA, U.S.A.
STPOST	47	1480	Poster	Identification, discussion and recommendations for the optimal generation and use of in vitro genotoxicity assay data for tobacco and nicotine products	DESAI P.(1); CURREN R.(1); MOORE M.M.(2)	(1) Institute for In Vitro Sciences, Gaithersburg, MD, U.S.A.; (2) Ramboll Environ Inc., Little Rock, AR, U.S.A.
STPOST	48	1467	Poster	Comparative study of Salmonella typhimurium tester strains TA1537, TA97 and TA97a in mutagenicity evaluation of tobacco products	SAKAI Y.; ISHII T.; TAKAHASHI Y.; HASHIZUME T.; FUKUSHIMA T.	Japan Tobacco Inc., Scientific Product Assessment Center, R&D Group, Yokohama, Kanagawa, Japan



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STPOST	49	1523	Poster	The CORESTA in vitro test battery for combustible tobacco products: update from the 2004 Rationale and Strategy Report	LEE K.M.(1); JORDAN K.G.(2); WIECZOREK R.(3); MOENNIKES O.(4); CLEMENTS J.(5); CROOKS I.(6); HASHIZUME T.(7); MILLER J.(8); WEBER E.(9); YOSHINO K.(7)	(1) Altria Client Services LLC, Richmond, VA, U.S.A.; (2) RAI Services Company, Winston-Salem, NC, U.S.A.; (3) Imperial Brands PLC Company, Reemtsma Cigarettenfabriken GmbH, Hamburg, Germany; (4) PMI R&D, Philip Morris Products S.A., Neuchâtel, Switzerland; (5) Covance Laboratories Ltd, Harrogate, U.K.; (6) British American Tobacco (Investments) Ltd, Research & Development, Southampton, U.K.; (7) Japan Tobacco Inc., Scientific Product Assessment Centre, Yokohama, Kanagawa, Japan; (8) JT International SA, Geneva, Switzerland; (9) Ökolab Ges. f. Umweltanalytik (a member of the JT International Group of Companies), Vienna, Austria
STPOST	50	1453	Poster	Altered lung barrier function is a physiologically-relevant biomarker of potential harm	MAKENA P.; BAXTER-WRIGHT S.; CHEN P.; PRASAD G.L.	RAI Services Company, Winston Salem, NC, U.S.A.
STPOST	51	1491	Poster	Structural investigation of the tobacco specific urinary biomarker iPX	SCHMIDT E.; PRASAD G.L.	RAI Services Company, Scientific & Regulatory Affairs, Winston-Salem, NC, U.S.A.
STPOST	52	1526	Poster	A blood-based smoking-related gene expression signature using a machine learning approach	LIU G.; PRASAD G.L.	RAI Services Company, Winston-Salem, NC, U.S.A.
STPOST	53	1562	Poster	Nicotine kinetics and subjective effects of two tobacco heating products compared to cigarettes and a nicotine replacement therapy	HARDIE G.; GALE N.; McEWAN M.; EBAJEMITO J.K.; MURPHY J.; PROCTOR C.J.	British American Tobacco (Investments) Limited, Research and Development, Southampton, U.K.
STPOST	54	1580	Poster	How did we move from smoking topography to vaping topography?	MENAGER K.; LOZANO F.; POULIN-DELORME E.	SODIM SAS, Saint Jean de Braye, France
STPOST	55	1446	Poster	Use behaviour patterns in Japanese novel tobacco vapour product (NTV) users	KUBOTA T.; MINAMI N.; KIMURA Y.; KAKEHI A.	Japan Tobacco Inc., Tokyo, Japan
STPOST	56	1621	Poster	Perceptions of the relative harm of electronic cigarettes compared with smoking in the U.S.A.: analysis of the Population Assessment of Tobacco and Health (PATH) study data, 2013-2016	O'CONNELL G.(1); WALELE T.(1); CAHOURS X.(2); THOMPSON J.(1); VERRON T.(2)	(1) Imperial Tobacco Limited, Bristol, U.K.; (2) SEITA, Imperial Brands, Paris, France
STPOST	57	1564	Poster	Cross-cultural equivalence of the ABOUT™-Perceived Risk instrument in seven languages	CHREA C.(1); CANO S.(2); SALZBERGER T.(3); MAINY N.(1); ACQUADRO C.(4); POPIELNICKI A.(5); WEITKUNAT R.(1)	(1) PMI R&D, Philip Morris Products S.A., Neuchâtel, Switzerland; (2) Modus Outcomes, Letchworth Garden City, U.K.; (3) University of Economics and Business, Vienna, Austria; (4) Mapi Research Trust, ICON plc, Lyon, France; (5) TransPerfect, Linguistic Validation Group, Boston, MA, U.S.A.
STPOST	58	1594	Poster	A consortium approach for consumer-reported outcome measures to assess tobacco- and nicotine-containing products	ACQUADRO C.(1) on behalf of the CORESTA CROM Task Force: AYALA-FIERRO F.(2); BLACK R.(3); CAHOURS X.(4); CHREA C.(5); CURTIN G.(6); GILES L.(7); McCAFFREY S.(3); PARK C.H.(8); PRASAD K.(9); SHERWOOD N.(10); SHIFFMAN S.(11); SMITH J.(6); SPIES E.(5)	(1) Mapi Research Trust, ICON plc, Lyon, France; (2) ITG Brands, Greensboro, NC, U.S.A.; (3) Altria Client Services, Richmond, VA, U.S.A.; (4) SEITA - Imperial Brands, Paris, France; (5) PMI R&D, Philip Morris Products S.A., Neuchâtel, Switzerland; (6) RAI Services Company, Winston-Salem, NC, U.S.A.; (7) JT International SA, Genève, Switzerland; (8) KT&G Research Institute, Daejeon, Republic of Korea; (9) British American Tobacco, R&D, Southampton, U.K.; (10) Neil Sherwood Consulting, Commugny, Switzerland; (11) Pinney Associates, Pittsburgh, PA, U.S.A.
STPOST	59	1521	Poster	A novel repository for consumer reported outcome measures in tobacco research: development, implementation and evolution from 2016 to date	CLERC E.(1); MAINY N.(1); PERRET C.(2); ACQUADRO C.(3); BACSO A.(1); BINGGELI P.(1); CHREA C.(1)	(1) PMI R&D, Philip Morris Products S.A., Neuchâtel, Switzerland; (2) Mapi Research Trust, Lyon, France; (3) ICON plc, Lyon, France
STPOST	60	1611	Poster	Can we still observe a net health benefit due to the introduction of modified-risk tobacco products (MRTPs) should the illegal trade in counterfeit cigarettes increase? A model perspective	LARROQUE S.; CHARRIERE M.; MEGER M.	JT International SA, Geneva, Switzerland
STPOST	61	1583	Poster	Results of aging studies on e-liquids	LAUTERBACH J.	Lauterbach & Associates, LLC, Macon, GA, U.S.A.
STPOST	62	1510	Poster	Determination of 16 polycyclic aromatic hydrocarbons in cigarette mainstream smoke and filter by on-line coupled LC-GC/MS	CAI Zhenbo; WANG Yangzhong; TAO Liqi; WU Da; LIU Baizhan	Technology Center, Shanghai Tobacco Group Co., Ltd., Shanghai, P.R. China
STPOST	63	1527	Poster	Comparison of methods for measuring the particle size distribution of smokeless tobacco products	JACKSON C.; DILL K.; PLATT S.; RUSYNIAK M.	Altria Client Services LLC, Regulatory Affairs, Richmond, VA, U.S.A.



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STPOST	64	1512	Poster	Analysis of cylinder drying intensity on cut strips based on Enthalpy method	LIU Ze(1); LU Duanfeng(2); LI Bin(2); ZHU Yong(1); TANG Jun(1); ZHOU Bing(1); FU Liang(1); YANG Qianxu(1); HE Banghua(1)	(1) R&D Center, China Tobacco Yunnan Industrial Co., Ltd., Kunming, P.R. China; (2) Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, P.R. China
STPOST	65	1628	Poster	Analysis of mainstream cigarette smoke constituents prioritized by the World Health Organization in a core collection of tobacco accessions: variability and correlations	CAHOURS X.(2); JULIO E.(1); VERRON T.(2); DORLHAC DE BORNE F.(1)	(1) SEITA - Imperial Brands, Leaf Research, Bergerac, France; (2) SEITA - Imperial Brands, Scientific Research, Paris, France
STPOST	66	1593	Poster	Collection and characterization of mainstream cigarette smoke condensates collected using a glass fiber filter and an ethanol containing impinger	GILLMAN I.G.; HILLDRUP J.P.; PACKETT S.R.; COLLINS J.M.	Enthalpy Analytical, LLC, Richmond, VA, U.S.A.
STPOST	67	1590	Poster	A comparison of quartz filter collection versus electrostatic precipitation collection in e-cigarette aerosol samples	GILLMAN I.G.; MARTIN A.M.; HOCHSTETLER S.; LATA J.; RACE N.; COLLINS D.; KELLY P.	Enthalpy Analytical, LLC, Richmond, VA, U.S.A.
STPOST	68	1582	Poster	Comparative levels of carbonyl delivery between mass-market cigars and cigarettes	JABLONSKI J.J.; HUNTER MAINES J.; CHEETHAM A.G.; MARTIN A.M.; GILLMAN I.G.	Enthalpy Analytical, LLC, Richmond, VA, U.S.A.
STPOST	69	1596	Poster	Within brand and across brand content and variability of nicotine and tobacco-specific nitrosamines in eight commercial U.S. cigar brands	GILLMAN I.G.; HULLDRUP J.P.; BROOKS K.N.L.	Enthalpy Analytical, LLC, Richmond, VA, U.S.A.
STPOST	70	1511	Poster	Structure and diversity analysis of microbial communities in cigar products by high-throughput sequencing technology	YE Changwen(1); LI Lu(2); HE Chen(1); LI Dong(1); CHEN Lianfang(1); FAN Li(1); CHEN Chen(1); WEI Xuetao(2)	(1) Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, P.R. China; (2) College of Food Science and Technology, Huazhong Agricultural University, Wuhan, P.R. China
STPOST	72	1448	Poster	Optimising carbon footprint of international meetings	COLARD S.(1); VERRON T.(2)	(1) MBA Corporate & Social Responsibility - Performance of the Organisations, Institute Leonard de Vinci, Paris-La Défense, France; (2) MBA Big Data, Chief Data Officer. ESG, Paris, France

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