



2018 CORESTA CONGRESS - Kunming, China - 22-26 October 2018
 AGRO-PHYTO - LIST OF ORAL / POSTER PRESENTATIONS
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Group	Num	Session	Abstract Title	Authors	Source
Invited Speaker		Plenary	From genome to variety: explorations and practices of CNTC	CAO Peijian	China Tobacco Gene Research Center, Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, P.R. China
Prize		Plenary	Technical upgrading and reconstruction of China's tobacco industry	YUAN Xingsi	Former Vice-President of China National Tobacco Corporation, former President of the Zhengzhou Tobacco Research Institute of CNTC, and Chief Editor of 'Acta Tabacaria Sinica' (retired)
IG	01	Plenary: Intergroup paper	Production of very low nicotine Burley tobacco: short term feasibility from an agronomy viewpoint	JACK A.M.; FISHER C.R.	University of Kentucky, Lexington, KY, U.S.A.
IG	02	Plenary: Intergroup paper	Cigarette Variability Task Force study designs, statistical considerations, initial observations, and limitations	MORTON M.(1); TAYYARAH R.(2); FLORA J.(1)	(1) Altria Client Services LLC, Richmond, VA, U.S.A.; (2) ITG Brands, Greensboro, North Carolina, U.S.A. [Presented as a representative of the CVAR TF]
APSTW	01	Workshop: Science & Innovation	The modern tobacco agronomist – utilizing tradition and change to sustain an industry	VANN M.C.	North Carolina State University, Department of Crop & Soil Sciences, Raleigh, NC, U.S.A.
APSTW	02	Workshop: Science & Innovation	New trends in tobacco crop protection: a Zimbabwean case study	DIMBI S.; MAVUKA R.	Tobacco Research Board, Harare, Zimbabwe
APSTW	03	Workshop: Science & Innovation	Scientific research and product standards: building trust in the e-vapour category	THOMPSON J.M.	Imperial Brands, Bristol, U.K.
APSTW	04	Workshop: Science & Innovation	Assessing the impact of tobacco harm reduction	ERKKILA B.E.	Foundation for a Smoke-Free World, DE, U.S.A.
AP	01	Low Nicotine	FDA advance notice of proposed rulemaking for nicotine level of combusted cigarettes – feasibility for compliance via tobacco plant genetics?	HIATT E.	R.J. Reynolds Tobacco Co., Winston-Salem, NC, U.S.A.
AP	02	Low Nicotine	A newly characterized regulatory mechanism modulates the NIC2 locus that controls nicotine biosynthesis	YUAN Ling; PRIYANKA P.; SANJAY K.S.; BARUNAVA P.; SITAKANTA P.	Department of Plant and Soil Sciences, Kentucky Tobacco Research and Development Center, University of Kentucky, Lexington, KY 40546, U.S.A.
AP	03	Low Nicotine	Transcriptomic and metabolomic analysis of very low nicotine tobacco lines	KUDITHIPUDI C.(1); SHEN Yanxin(1); GOVINDRAJULU R.(2); XU Dongmei(1); WAREK U.(1); STRICKLAND J.A.(1)	(1) Altria Client Services LLC, Research, Development and Regulatory Affairs, Richmond, VA, U.S.A.; (2) Eurofins Lancaster Laboratories, c/o Altria Client Services LLC, Research, Development and Regulatory Affairs, Richmond, VA, U.S.A.
AP	04	Low Nicotine	Regulation network of nicotine biosynthesis in tobacco: the non-coding players	CHEN Xi(1,2); SUN S.(1,2); SHEN E.(1,2); WANG W.(1,2); LI F.(1); LIU F.(1,2); CHEN H.(1,2); YE C.(1,2); XIAO B.(3); FAN L.(1,2)	(1) Institute of Crop Science, Zhejiang University, Hangzhou, P.R. China; (2) Institute of Bioinformatics, Zhejiang University, Hangzhou, P.R. China; (3) Yunnan Academy of Tobacco Agricultural Sciences and China Tobacco Breeding Research Center, Yunnan, Yuxi, P.R. China
AP	06	GAP 1	Effects on the enzyme activity and microbial community of soil under different fertilizations	LI Xiang; LIU Yanxia; ZOU Yan; ZHANG Heng; ZHU Jingwei; SHI Junxiang	Guizhou Academy of Tobacco Science of CNTC, Guiyang, Guizhou, P.R. China
AP	07	GAP 1	Float water alkalinity adjustment in organic seedling production	VANN M.C.(1); STEVENS D.A.(1); SHORT M.(1); MCGINNIS M.(2)	(1) North Carolina State University, Department of Crop & Soil Sciences, Raleigh, NC, U.S.A.; (2) North Carolina Department of Agriculture & Consumer Services – Agronomic Division, Raleigh, NC, U.S.A.
AP	08	GAP 1	Growth and nutrient uptake of Burley tobacco fertilized with alternative sources of potassium	PEARCE B.(1); PAVULURI K.(2)	(1) University of Kentucky, Lexington, KY, U.S.A.; (2) Sirius Minerals Plc, Scarborough, U.K.
AP	09	GAP 1	Chloride application: effects to nutrient assimilation, agronomic performance, and cured leaf chemistry of flue-cured tobacco	VANN M.C.(1); FISHER L.R.(1); INMAN M.D.(1); HARDY D.H.(2)	(1) North Carolina State University, Department of Crop & Soil Sciences, Raleigh, NC, U.S.A.; (2) North Carolina Department of Agriculture & Consumer Services – Agronomic Division, Raleigh, NC, U.S.A.
AP	10	GAP 1	Testing performance of tobacco varieties in water stress conditions	CAMPANONI P.(1); LAPARRA H.(1); OZELLEY P.(1); DELLA CIANA P.(3); BISCARINI E.(3); MAURIZI L.(2); NARDONI N.(2); TRIPPELLA C.(2); GOEPFERT S.(1)	(1) Philip Morris Products S.A. (part of Philip Morris International group of companies), PMI R&D, Neuchâtel, Switzerland; (2) Philip Morris Italia s.r.l., via Po 11-13-15, 00198, Roma, Italy; (3) L'Agricola s.r.l., Bastia Umbra, Perugia, Italy
AP	11	Genetics	Breeding of an extremely low nicotine Burley tobacco line and its characteristics	NA Woong-Hyun; KIM Kwang-Chul; OH Kyung-Hwan; JEON Eun-Young; LEE Jeong-Heon	KT&G R&D Headquarters, Daejeon, South Korea



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AP	12	Genetics	Identification of tobacco ANGUSTIFOLIA (AN) gene promoter activity	WANG Jing; YANG Huijuan; SHI Hongzhi; LIU Guoshun	College of Tobacco Science, Henan Agricultural University, Key Laboratory for Cultivation of Tobacco Industry, Zhengzhou, P.R. China
AP	14	Genetics	RNA-Seq analysis of Orobanchae resistance in tobacco: development of molecular markers for breeding recessive resistance from Wika tobacco variety	JULIO E.(1); MALPICA A.(2); COTUCHEAU J.(1); BACHET S.(2); VOLPATTI R.(1); DECORPS C.(1); DORLHAC de BORNE F.(1)	(1) Imperial Tobacco Limited, Leaf Research, Bergerac, France; (2) Bergerac Seed and Breeding, Bergerac, France
AP	15	GAP 2	Chemical changes in ultra-low nicotine tobacco produced by grafting with Solanum melongena L.	REN Mengjuan(1); SHI Hongzhi(1); YANG Huijuan(1); LI Jianhua(2); DUAN Weidong(3); LI Hongliang(2)	(1) Henan Agricultural University/Tobacco Cultivation Key Laboratory of China Tobacco, Zhengzhou, P.R. China; (2) Xuchang Tobacco Company of Henan Province, P.R. China; (3) China Tobacco Henan Industrial Co. Ltd., Zhengzhou, P.R. China
AP	16	GAP 2	Flue-cured tobacco tip leaf yield, quality, value, and color distribution as influenced by cultivar and harvest schedule	VANN M.C.; FISHER L.R.; INMAN M.D.; WHITLEY D.S.; SEAGROVES R.W.; BARNES K.	North Carolina State University, Department of Crop & Soil Sciences, Raleigh, NC, U.S.A.
AP	18	GAP 2	A non-destructive rapid method for blend grade verification using visible-near infrared hyperspectral imaging, advanced data processing and classification algorithms	SAHU A.(1); DANTE H.(2); MORRIS J.W.(1); WAREK U.(1)	(1) Altria Client Services LLC., Biotechnology, Richmond, VA, U.S.A.; (2) Industrial Turnaround Corporation, Chester, VA, U.S.A.
AP	19	CPA 1	A review of the innovation based on Proficiency Tests conducted by the CORESTA Agrochemical Analysis Sub-Group and its consequences for daily result interpretation	BRAECKMAN H.	Primoris Belgium, Zwijnaarde, Belgium
AP	20	CPA 1	Impact of reduced drift spray nozzles on herbicide deposition and efficacy	LEGLEITER T.	University of Kentucky, University of Kentucky Research and Education Center, Princeton, KY, U.S.A.
AP	21	CPA 1	Quantifying dicamba residue in contaminated sprayers	INMAN M.D.; VANN M.C.; FISHER L.R.; GANNON T.W.; JORDAN D.L.	North Carolina State University, Department of Crop & Soil Sciences, Raleigh, NC, U.S.A.
AP	22	CPA 1	Field screenings of S-metolachlor for weed suppression in flue-cured tobacco	CLAPP A.M.; VANN M.C.; FISHER L.R.; INMAN M.D.; SEAGROVES R.W.	North Carolina State University, Department of Crop & Soil Sciences, Raleigh, NC, U.S.A.
AP	23	TSNA 1	Engineering tobacco plants to degrade the potential NNK precursor pseudoxytobacco	DEWEY R.E.; LEWIS R.S.; SELOTE D.	North Carolina State University, Dept. of Crop and Soil Sciences, Raleigh, NC, U.S.A.
AP	24	TSNA 1	Downregulation of a putative nitrate transporter gene substantially reduces the accumulation of TSNA in air-cured tobaccos	GOEPFERT S.(1); BOVET L.(1); LU J.(2); CAMPANONI P.(1); LEWIS R.S.(2); DEWEY R.E.(2)	(1) Philip Morris Products S.A. (part of Philip Morris International group of companies), PMI R&D, Neuchâtel, Switzerland; (2) North Carolina State University, Department of Crop Science, Raleigh, NC, U.S.A.
AP	25	TSNA 1	2017 stable reduced converter (SRC) dark tobacco crop	LION K.; LUSSO M.; ADAMS A.; MORRIS W.; XU D.; WAREK U.; STRICKLAND J.A.	Altria Client Services LLC, Research, Development & Regulatory Affairs, Richmond, VA, U.S.A.
AP	26	TSNA 1	Dark air-cured, dark fire-cured and Burley tobacco TSNA levels, yield and quality in response to potassium rate and source	KEENEY A.B.(1); BAILEY W.A.(2)	(1) University of Kentucky, Plant Science Building, Lexington, KY, U.S.A.; (2) University of Kentucky, Research and Education Center, Princeton, KY, U.S.A.
AP	27	TSNA 1	The research and application of systematic technologies for reducing tobacco specific nitrosamines in tobacco and cigarette smoke	BAI Ruoshi(1); ZHOU Jun(1); YANG Chunlei(2); SHI Hongzhi(3); LIU Weijuan(4); XU Tongguang(1); MA Yanjun(1); LIU Xingyu(1); YANG Jinpeng(2); WANG Jun(3); ZHANG Jie(1); YANG Zhendong(1); ZHENG Xiaoman(1); ZHANG Chen(1)	(1) Technical Center of Beijing Cigarette Factory, Shanghai Tobacco Group Co., Ltd, Beijing, P.R. China; (2) Hubei Tobacco Research Institute, Wuhan, P.R. China; (3) Henan Agriculture University, Zhengzhou, P.R. China; (4) Yunnan Reascend Tobacco Technology (Group) Co., Ltd, Kunming, P.R. China
AP	28	TSNA 2	Effect of vacuum packaging on the formation of TSNA in tobacco leaves during storage	WANG Jun(1); SHI Hongzhi(1); Li Jingjing(1); ZHOU Jun(2); YANG Huijuan(1); BAI Ruoshi(2); ZHANG Chen(2)	(1) Henan Agricultural University / China National Tobacco Cultivation & Physiology & Biochemistry Research Center / Tobacco Cultivation Key Laboratory of China Tobacco, Zhengzhou, P.R. China; (2) Beijing Cigarette Factory of Shanghai Tobacco Group Co., Ltd., Beijing, P.R. China
AP	29	TSNA 2	Changes in content of TSNA and other compounds of different tobacco types during 6-year long-term storage	ZHANG Mengyue(1); SHI Hongzhi(1); ZHOU Jun(2); DUAN Weidong(3); YANG Huijuan(1); BAI Ruoshi(2)	(1) Henan Agricultural University, National Tobacco Cultivation & Physiology & Biochemistry Research Center, Zhengzhou, P.R. China; (2) Beijing Cigarette Factory of Shanghai Tobacco Group Co., Ltd., Beijing, P.R. China; (3) China Tobacco Henan Industrial Limited Co., Zhengzhou, P.R. China
AP	30	Biotechnology	Identification of sucker control genes	HAMANO K.; SUZUKI S.; SATO S.; ARAI M.; NEGISHI Y.; NOMURA A.; TSUKAHARA M.	Japan Tobacco Inc., Leaf Tobacco Research Center, Oyama, Tochigi, Japan



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AP	31	Biotechnology	Genetic strategy for reducing sucker pressure in tobacco	SHEN Yanxin; YANG J.; KUDITHIPUDI C.; XU Dongmei; FREDERICK J.; WAREK U.; STRICKLAND J.A.	Altria Client Services LLC, Research, Development & Regulatory Affairs, Richmond, VA, U.S.A.
AP	32	Biotechnology	Genome-wide identification and functional characterization of senescence-associated genes of the NAC transcription factor family in tobacco	LI Wei; LI Xiaoxu; CHAO Jiangtao; ZHANG Zenglin; WANG Weifeng; GUO Yongfeng	Tobacco Research Institute, Chinese Academy of Agricultural Sciences (CAAS), Qingdao, Shandong, P.R. China
AP	33	Biotechnology	Comparative research of gene expression profiles on exposure to high and low level nitrate signals	ZHANG Yuning; YANG Huijuan; WANG Jing; SHI Hongzhi	Henan Agricultural University, Zhengzhou, P.R. China
AP	34	Biotechnology	An alternative strategy of risk reduction for tobacco smokers	DORLHAC de BORNE F.	Imperial Tobacco Limited, Leaf Research, Bergerac, France
AP	35	Leaf Chemistry	Development of THA mutant line having markedly increased threonine in cured leaves	KOIKE A.; NOGUCHI S.; TSUKUI S.; OGURO S.	Japan Tobacco Inc., Leaf Tobacco Research Center, Oyama, Tochigi, Japan
AP	36	Leaf Chemistry	Use of reverse genetic approach to study the role of tobacco trichome-produced cembratrien-diols in pest/insect interaction	MIHAYLOVA-KROUMOVA A.(1); PEARS R.(2); FISHER C.R.(2); KORENKOV V.D.(1); ARTIOUCHINE I.S.(1); PFEUFER E.(3); WAGNER J.G.(1)	University of Kentucky, Lexington, KY, U.S.A.
AP	37	Leaf Chemistry	Leaf surface chemicals improvement through molecular regulation of glandular trichome formation of tobacco	WANG Zhaojun; ZHANG Hongying; CUI Hong	College of Tobacco Science, Henan Agricultural University, Zhengzhou, P.R. China
AP	38	Leaf Chemistry	Multi-omics data revealed NtWRKY75 involved in trichome development of Nicotiana tabacum	JIN Jingjing; ZHANG Jianfeng; ZHANG Hui; LU Peng; LI Zefeng; XU Yalong; CAO Peijian	China Tobacco Gene Research Center, Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, P.R. China
AP	39	Leaf Chemistry	Effects of tobacco curing with flower buds in the same bulk-barn on the quality of flue-cured tobacco leaves	SUN Fushan; ZHOU Ping; WANG Songfeng; ZI Yinjin; ZHENG Furui; GAO Xianhui; ZHANG Ye; LIU Yajun	Tobacco Research Institute, Chinese Academy of Agricultural Sciences (CAAS), Qingdao, Shandong, P.R. China
AP	40	CPA 2	Plant metabolism studies with ¹⁴ C-maleic hydrazide (MH) in tobacco and evaluation of analytical methods	TATENO A.(1); KISHI H.(1); NAKAYAMA K.(2); OYAMA K.(1); MIYOSHI M.(1)	(1) Japan Tobacco Inc., Leaf Tobacco Research Center, Oyama, Tochigi, Japan; (2) Japan Tobacco Inc., Scientific and Regulatory Affairs Division, Tokyo, Japan
AP	42	CPA 2	Evaluation of cured leaf residues of several common pesticides used in dark air-cured and dark fire-cured tobacco	BAILEY W.A.; RODGERS J.C.; KEENEY A.B.; RICHMOND M.D.	University of Kentucky, Research and Education Center, Princeton, KY, U.S.A.
AP	43	CPA 2	Pyrethroid resistance in the cigarette beetle <i>Lasioderma serricorne</i> (F.) (Coleoptera: Anobiidae)	FUKAZAWA N.; TAKAHASHI R.	Japan Tobacco Inc., Leaf Tobacco Research Center, Oyama, Tochigi, Japan
AP	44	CPA 2	Resistance mechanism of <i>Phytophthora nicotianae</i> to dimethomorph	MU Wenjun; HU Liwei; SONG Jizhen; GUO Jianhua; XI Jiaqin; XUE Chaoqun	Key Laboratory of Eco-environment and Leaf Tobacco Quality, Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, P.R. China
AP	45	Disease	New genetic source for black shank resistance and genomic loci associated with its resistance	SHINJO A.; KOGA K.; ONO T.; NOGUCHI S.	Japan Tobacco Inc., Leaf Tobacco Research Center, Oyama, Tochigi, Japan
AP	46	Disease	New strategies for early detection of blue mold in asymptomatic tobacco: a mixed fluorescence and LAMP based-approach under preliminary test at Fattoria Autonoma Tabacchi	BARGIACCHI E.(1); TUCCIO L.(2); AGATI G.(2); CERBONESCHI M.(3); MILLI G.(4); MIELE S.(1)	(1) Consortium INSTM, Firenze, Italy; (2) CNR-IFAC, Sesto Fiorentino, Italy; (3) DISPAA-UniFI, Lab Molecular Plant Pathology, Firenze, Italy; (4) Fattoria Autonoma Tabacchi (FAT) & ITT, Città di Castello, Italy
AP	47	Disease	Enhanced resistance to potato virus Y (PVY) and resistance-breaking PVY in tobacco eIF4E-S and eIF(iso)4E-T double mutant	TAKAKURA Y.; UDAGAWA H.; SHINJO A.; KOGA K.	Japan Tobacco Inc., Leaf Tobacco Research Center, Oyama, Tochigi, Japan
AP	48	Disease	The Nsm of tomato spotted wilt virus is an elicitor of RTSW-mediated virus resistance in tobacco and its ability in HR induction is dissociated of movement function	HUANG Changjun; LIU Yong; YUAN Cheng; ZENG Jianmin; YU Haiqin; GAO Yulong; XIAO Bingguang	Yunnan Academy of Tobacco Agricultural Sciences of CNTC, Kunming City, Yunnan Province, P.R. China
AP	49	Disease	The influence of <i>Nicotiana glauca</i> -derived introgression on plant malformations of tobacco breeding lines resistant to tomato spotted wilt virus	KORBECKA-GLINKA G.(1); TROJAK-GOLUCH A.(1); DOROSZEWSKA T.(1); GOEPFERT S.(2)	(1) Institute of Soil Science and Plant Cultivation - State Research Institute, Pulawy, Poland; (2) Philip Morris Products S.A. (part of Philip Morris International group of companies), PMI R&D, Neuchâtel, Switzerland
APW	01	Workshop: Crop Protection	CPAs, tobacco production, integrity and compliance	PRAT M.	JT International GmbH, Trier, Germany
APW	02	Workshop: Crop Protection	Pesticide fate in soil and plants	GANNON T.W.	North Carolina State University, Raleigh, NC, U.S.A.
APW	03	Workshop: Crop Protection	Maximizing the spray droplet to effectively deliver pesticides	LEGLEITER T.	University of Kentucky, University of Kentucky Research and Education Center, Princeton, KY, U.S.A.



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APW	04	Workshop: Crop Protection	Biocontrol: what place in crop protection?	KANE K.; MAUMENE C.	ARVALIS - Institut du végétal, Bergerac, France
APW	05	Workshop: Genome Applications	Tobacco genomic resource	JIN Jingjing	China Tobacco Gene Research Center, Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou 450001, P.R. China
APW	06	Workshop: Genome Applications	Modification of tobacco chemical constituents by molecular breeding	LEWIS R.S.; DEWEY R.E.	North Carolina State University, Department of Crop & Soil Sciences, Raleigh, NC, U.S.A.
APW	07	Workshop: Genome Applications	Contribution of genomic research to develop disease resistance in tobacco	JULIO E.	Imperial Tobacco Limited, Leaf Research, Bergerac, France;
APW	08	Workshop: Genome Applications	Recent developments and practical applications of new breeding technologies	STRICKLAND J.A.	Altria Client Services LLC, Biotechnology, Richmond, VA, U.S.A.
APPOST	01	Poster	Identification of transcriptional factors of nitrate reductase gene promoters and NRE2 cis-element in Nicotiana tabacum	YANG Huijuan; ZHOU Yan; ZHANG Yuning; WANG Jing; SHI Hongzhi	Henan Agricultural University, College of Tobacco Science, P.R. China
APPOST	02	Poster	Development and application of tobacco SSR markers based on genome re-sequencing of different tobacco types	YANG Huijuan; GENG Xinqi; WANG Jing; ZHANG Yuning; SHI Hongzhi	Henan Agricultural University, College of Tobacco Science, P.R. China
APPOST	03	Poster	Using fPAR as a modelling parameter for tobacco yield estimation in regional cropping areas	BENSE G.(1); BENSE T.(2)	(1) Teledet SRL, El Pinar, Canelones, Uruguay; (2) C.I.T. Montepaz S.A., Montevideo, Uruguay
APPOST	04	Poster	Pest and disease surveillance in flue-cured tobacco growing zones of India	REDDY B.S.R.; SWAMY S.; MANI M.	ITC Ltd, Agri Business Division, Research Department, Rajahmundry, A.P, India
APPOST	05	Poster	Effect of Qianhefu water-soluble foliar fertilizer on the quality of flue-cured tobacco leaf	XU Chunping(1); BAI Jiafeng(2); HU Zhizhong(2); JIA Ke(1); MA Kuoyan(3)	(1) College of Food and Biological Engineering, Zhengzhou University of Light Industry, Zhengzhou, P.R. China; (2) Technical Center of China Tobacco Guangxi Industrial Co. Ltd, Nanning, Guanxi, P.R. China; (3) Technical Center of China Tobacco Chongqing Industrial Co., Ltd., Chongqing, P.R. China
APPOST	06	Poster	Effect of biochar fertilizer on microbial functional diversity of tobacco-planting soil	CHANG Dong; XU Fangda; ZHANG Kai; WANG Xiaoqiang; HE Xiaobing; XU Yueqi; WANG Mingxin; MA Wenhui	Pingdingshan Tobacco Company of Henan of CNTC, Pingdingshan, Henan, P.R. China
APPOST	07	Poster	Rotation and manure amendment increase soil macro-aggregates and associated carbon and nitrogen stocks in flue-cured tobacco production	ZOU Congming; LI Yan; HUANG Wei; HU Xiaodong; ZHAO Gaokun; YANG Xuebiao; CAI Yonghao; JIN Yan	Yunnan Academy of Tobacco Agricultural Sciences of CNTC, Kunming City, Yunnan Province, P.R. China
APPOST	08	Poster	Study on absorption and transport of potassium (K) by foliar application in tobacco leaves	DENG Xiaopeng; GAO Shudi; CHEN Yahua	Yunnan Academy of Tobacco Agricultural Sciences of CNTC, Kunming City, Yunnan Province, P.R. China
APPOST	09	Poster	Degradation property of degradable film and its effect on flue-cured tobacco development and soil ecological environment	FAN Jun(1); TAN Jun(1); PENG Wuxing(1); ZHAO Xiuyun(2); WANG Rui(1); XIA Pengliang(1)	(1) Enshi Company of Hubei Tobacco Company of CNTC, Enshi, Hubei, P.R. China; (2) College of Life Science and Technology, Huazhong Agricultural University, Wuhan, P.R. China
APPOST	10	Poster	Determination of maleic hydrazide and its two glucosides in tobacco leaves using hydrophilic interaction liquid chromatography tandem mass spectrometry	LI Yong; PANG Tao; SHI Junli; KONG Guanghui; LU Xiuping; JIN Yan	Yunnan Academy of Tobacco Agricultural Sciences of CNTC, Kunming City, Yunnan Province, P.R. China
APPOST	11	Poster	Field trials with low nicotine tobacco varieties developed by conventional breeding technique: first results	MALPICA A.(1); EVANS W.(2); ARCHIBALD C.(3); SCOTT L.(4); GARWE D.(5); CHAMANGO A.M.Z.(6); DORLHAC de BORNE F.(7); COLARD S.(8)	(1) Bergerac Seed and Breeding, Bergerac, France; (2) Imperial Tobacco South Africa Pvt. Ltd, Umhlanga, Durban, South Africa; (3) Alliance One International Services, Camberley, Surrey, U.K.; (4) Universal Leaf Tobacco Co., Richmond, VA, U.S.A.; (5) Tobacco Research Board (TRB), Harare, Zimbabwe; (6) Agricultural Research & Extension Trust (ARET), Lilongwe, Malawi; (7) Imperial Tobacco Limited, Bergerac, France; (8) SEITA - Imperial Brands plc, Paris, France
APPOST	12	Poster	Degradable residues characterization and possible MRL setting for albendazole, flusilazole and imazalil in tobacco	JIANG Huatao; YOU Xiangwei; SUI Chengcheng; ZHANG Guangyu; WANG Xiuguo; LI Yiqiang	Tobacco Research Institute, Chinese Academy of Agricultural Sciences (CAAS), Qingdao, Shandong, P.R. China
APPOST	13	Poster	Genetic diversity of potato virus Y infecting tobacco in major tobacco growing fields in Northern Vietnam	NGUYEN VAN C.(1); NGUYEN VAN D.(2); VAN LE S.(2)	(1) Vietnam Tobacco Institute, Hanoi, Vietnam; (2) Vietnam Institute of Biotechnology, Hanoi, Vietnam
APPOST	14	Poster	Study on the detection and automatic diagnosis of tobacco diseases based on machine vision and machine learning	ZHANG Jianqiang; LIU Weijuan; HOU Ying; LI Changyu	Yunnan Reascend Tobacco Technology (Group) Co., Ltd, Kunming, Yunnan, P.R. China
APPOST	15	Poster	Effect of potato virus Y on growth, yield and chemical composition of flue-cured tobacco in Northern Vietnam	NGUYEN VAN C.; HONG NGUYEN T.; THI DO T.	Vietnam Tobacco Institute, Hanoi, Vietnam



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APPOST	16	Poster	Monitoring of agricultural drought in tobacco growing areas in Poland in 2009-2017	BERBEĆ T.; DOROSZEWSKI A.; <u>BERBEĆ A.</u>	Institute of Soil Science and Plant Cultivation - State Research Institute, Pulawy, Poland
APPOST	17	Poster	Comparison of the degree of malformations in different breeding materials carrying <i>Nicotiana alata</i> -introgression conferring resistance to tomato spotted wilt virus	TROJAK-GOLUCH A.(1); KORBECKA-GLINKA G.(1); DOROSZEWSKA T.(1); GOEPFERT S.(2)	Institute of Soil Science and Plant Cultivation - State Research Institute, Pulawy, Poland
APPOST	18	Poster	Characteristics of bacterial community structure in tobacco-planting soils under different fertilization practices	YAO Pengwei; QIN Yihe; YE Xiefeng	College of Tobacco Science, Henan Agricultural University / National Tobacco Cultivation and Physiology and Biochemistry Research Centre / Tobacco Cultivation Key Laboratory of China Tobacco, Zhengzhou, P.R. China
APPOST	19	Poster	Influence of biochar on the composition of a soil microbial community under tobacco (<i>Nicotiana tabacum</i>) cultivation	WANG Jing; YAO Pengwei; YE Xiefeng	College of Tobacco Science, Henan Agricultural University / National Tobacco Cultivation and Physiology and Biochemistry Research Centre / Tobacco Cultivation Key Laboratory of China Tobacco, Zhengzhou, P.R. China
APPOST	21	Poster	Possibility of estimation of on-site population density of tobacco beetle	SASAKI R.; NAKAYAMA S.	Ecomone Headquarters, Fuji Flavor Co., Ltd., Tokyo, Japan
APPOST	22	Poster	Bacterial wilt (<i>Ralstonia solanacearum</i>) resistant flue-cured hybrids - current Malawi situation	SIBANDE L.A.G.O.; CHAMANGO A.M.Z.; MATEWERE M.; KHUMBANYIWA A.G.	Agricultural Research and Extension Trust (ARET), Lilongwe, Malawi
APPOST	23	Poster	Overexpression of tobacco GCN2 induces plant response to various stresses	LI Ning; YANG Yongxia; ZHANG Songjie; ZHAO Qi; LONG Yue; JIA Hongfang; ZHANG Songtao	Henan Agricultural University, College of Tobacco Science, Tobacco Cultivation Key Laboratory of China Tobacco, Zhengzhou 450002, P.R. China
APPOST	24	Poster	Development and evaluation of tobaccos engineered for high leaf-oil accumulation	PERRY J.P.(1); HILDBRAND D.(2); YUAN L.(1); PETRIE J.(3); GREEN A.(3); LEITA B.(3)	(1) University of Kentucky, KTRDC, Lexington, KY, U.S.A.; (2) University of Kentucky, Department of Plant and Soil Sciences, Lexington, KY, U.S.A.; (3) CSIRO Agriculture & Food, Canberra, Australia
APPOST	25	Poster	Tobacco remnants as substrate for edible mushrooms, tree seedling and cockroach production	PUTZKE J.; FALCÃO M.; LUCINI F.	Universidade Federal do Pampa, São Gabriel, Rio Grande do Sul, Brazil
APPOST	26	Poster	<i>Nicotiana</i> species as sources of cytoplasmic male sterility in tobacco breeding	BERBEĆ A.; BERBEĆ T.	Institute of Soil Science and Plant Cultivation - State Research Institute, Pulawy, Poland
APPOST	27	Poster	Critical period for weed control in flue-cured tobacco	INMAN M.D.; VANN M.C.; FISHER L.R.; JORDAN D.L.	North Carolina State University, Department of Crop & Soil Sciences, Raleigh, NC, U.S.A.
APPOST	30	Poster	Nicotine reduction and consumer perception: a scientific approach for quantifying possible impact of low nicotine cigarettes on consumer behaviour	GUO Mengran(1); <u>VERRON T.</u> (1); DORLHAC de BORNE F.(2); PRITCHARD J.(3); COLARD S.(1)	(1) SEITA - Imperial Brands plc, Paris, France; (2) Imperial Tobacco Limited, Leaf Research, Bergerac, France; (3) Imperial Brands, Bristol, U.K.

Name underlined = Presenter when the main author (listed first) is not presenting the paper



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Group	Num	Session	Abstract Title	Authors	Source
Invited Speaker		Plenary	From genome to variety: explorations and practices of CNTC	CAO Peijian	China Tobacco Gene Research Center, Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, P.R. China
Prize		Plenary	Technical upgrading and reconstruction of China's tobacco industry	YUAN Xingsi	Former Vice-President of China National Tobacco Corporation, former President of the Zhengzhou Tobacco Research Institute of CNTC, and Chief Editor of 'Acta Tabacaria Sinica' (retired)
IG	01	Plenary: Intergroup paper	Production of very low nicotine Burley tobacco: short term feasibility from an agronomy viewpoint	JACK A.M.; FISHER C.R.	University of Kentucky, Lexington, KY, U.S.A.
IG	02	Plenary: Intergroup paper	Cigarette Variability Task Force study designs, statistical considerations, initial observations, and limitations	MORTON M.J.(1); TAYYARAH R.(2); FLORA J.(1)	(1) Altria Client Services LLC, Richmond, VA, U.S.A.; (2) ITG Brands, Greensboro, North Carolina, U.S.A. [Presented as a representative of the CVAR TF]
APSTW	01	Workshop: Science & Innovation	The modern tobacco agronomist – utilizing tradition and change to sustain an industry	VANN M.C.	North Carolina State University, Department of Crop & Soil Sciences, Raleigh, NC, U.S.A.
APSTW	02	Workshop: Science & Innovation	New trends in tobacco crop protection: a Zimbabwean case study	DIMBI S.; MAVUKA R.	Tobacco Research Board, Harare, Zimbabwe
APSTW	03	Workshop: Science & Innovation	Scientific research and product standards: building trust in the e-vapour category	THOMPSON J.M.	Imperial Brands, Bristol, U.K.
APSTW	04	Workshop: Science & Innovation	Assessing the impact of tobacco harm reduction	ERKKILA B.E.	Foundation for a Smoke-Free World, DE, U.S.A.
ST	01	In vitro	In vitro biological safety evaluation of cigarette smoke	CHEN Xi(1,2); SHEN Y.(1,2); CHEN Hongyu(1,2); LIU F.(1,2); QI H.(3); JIMIN S.(3); TIMKO M.(4); FAN L.(1,2)	(1) Research Center for Air Pollution and Health, Zhejiang University, Hangzhou, P.R. China; (2) Institute of Bioinformatics, Zhejiang University, Hangzhou, P.R. China; (3) Department of Pathology and Pathophysiology, School of Basic Medical Sciences, Zhejiang University, Hangzhou, P.R. China; (4) Department of Public Health Sciences, School of Medicine, University of Virginia, Charlottesville, VA, U.S.A.
ST	02	In vitro	Effect of heating temperature on chemical characterisation and biological activity of tobacco smoke emission	SHIN Han-Jae; GWAK Hyo-Min; LEE Moon-Yong	KT&G Research Institute, Daejeon, South Korea
ST	03	In vitro	Solvent-free extraction method for in vitro testing with tobacco vapor products	ITO H.; KITAMURA N.	Japan Tobacco Inc., Scientific Product Assessment Center, Yokohama, Kanagawa, Japan
ST	04	In vitro	Assessing the cytotoxicity of e-liquids without the use of the neutral red uptake assay	McHUGH D.; CUDAZZO G.; VANSCHUEUWIJCK P.	Philip Morris Products S.A. (part of Philip Morris International group of companies), PMI R&D, Neuchâtel, Switzerland
ST	05	EVAP Methods/Products 1	Structure-activity relationships of propylene glycol, glycerin, and select analogs for carbonyl thermal degradation products	MELVIN M.S.; BALLENTINE R.M.; GARDNER W.P.; MCKINNEY W.J.; PITHAWALLA Y.B.; SMITH D.C.; WAGNER K.A.	Altria Client Services LLC, Richmond, VA, U.S.A.
ST	06	EVAP Methods/Products 1	E-cigarette flavour transfer screening method by GC/MS	MARTIN S.; SAXTON M.; DALTON D.	British American Tobacco (Investments) Limited, R&D, Southampton, U.K.
ST	07	EVAP Methods/Products 1	Evaluation of the formaldehyde hemiacetals and acetals relevant to electronic cigarettes	JIN Xiaohong C.; AVERY K.C.; BALLENTINE R.M.; GARDNER W.P.; MCKINNEY W.J.; MELVIN M.S.; PITHAWALLA Y.B.; SMITH D.C.; WAGNER K.A.	Altria Client Services LLC, Richmond, VA, U.S.A.
ST	08	EVAP Methods/Products 1	FTIR chemometrics applied to e-liquids quantitative analysis	HIGGINS F.; THORN E.K.; RUSYNIAK M.J.	Altria Client Services LLC, Richmond, VA, U.S.A.
ST	09	Heated Tobacco Products	Puff-by-puff analysis of nicotine, menthol and other volatile components in menthol flavoured heat-not-burn tobacco product	Li Jingjing; LIU Weijuan; GUO Tingting; HOU Ying; LIU Shengyi	Ruvian Technology Ltd., Kunming, P.R. China; Yunnan Reascend Tobacco Technology (Group) Co., Ltd, Kunming, P.R. China; Yunnan Comtestor Co., Ltd, Kunming, P.R. China
ST	10	Heated Tobacco Products	Quantitative determination of selected carbonyls in tobacco, tobacco materials, e-liquids and emissions of conventional cigarettes and novel tobacco products (NTPs)	LIU Shengyi; LIU Weijuan; HOU Ying; LI Jingjing	Ruvian Technology Ltd., Kunming, P.R. China; Yunnan Reascend Tobacco Technology (Group) Co., Ltd, Kunming, P.R. China; Yunnan Comtestor Co., Ltd, Kunming, P.R. China
ST	11	Heated Tobacco Products	Determination of the transfer of nicotine and selected ingredients into heat-not-burn tobacco product mainstream aerosol by using gas chromatography	YUN J.H.; JIN S.J.; LIM G.H.; LEE J.M.	KT&G Research Institute, Daejeon, South Korea
ST	12	Heated Tobacco Products	Puff resolved determination of selected constituents in the aerosol of commercially available tobacco heating products using photoionisation mass spectrometry	EHLERT S.(1,2); HEIDE J.(2); WALTE A.(1); ZIMMERMANN R.(2)	(1) Photonion GmbH, Schwerin, Germany; (2) University of Rostock, Dept. of Analytical Chemistry, Rostock, Germany



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ST	13	Heated Tobacco Products	Release mechanism of nicotine in heat-not-burn tobacco products	HUA Qing; ZHENG Saijing; ZHANG Wei; ZHOU Huiming; ZHANG Yichun; LU Wenjie; WU Da; SHEN Yi; LIU Baizhan	Shanghai Tobacco Group Co., Ltd. of CNTC, Shanghai, P.R. China
ST	14	Clinical Studies	Characterization of nicotine pharmacokinetic profile and subjective effect measures for e-vapor products relative to cigarette and nicotine gum	LIU Jianmin; LIANG Qiwei; WANG Jingzhu; VANSICKEL A.; GOGOVA M.; ZHAO Yuxi; SARKAR M.	Altria Client Services LLC, Richmond, VA, U.S.A.
ST	17	Clinical Studies	A clinical study investigating changes in exposure to cigarette smoke chemicals in U.K. smokers who switch to using a tobacco heating product for a five-day period	McEWAN M.(1); EBAJEMITO J.K.(1); GALE N.(1); ELDRIDGE A.(1); CAMACHO O.M.(1); MURPHY J.(1); HARDIE G.(1); PROCTOR C.J.(1)	(1) British American Tobacco (Investments) Limited, R&D, Southampton, U.K.; (2) Celerion Inc., Lincoln, NE, U.S.A.
ST	18	EVAP Methods/Products 2	Infrared thermal imaging applied to e-cigarette heater core temperature measurement	HIGGINS F.; SKAPARS J.; RUSYNIAK M.J.	Altria Client Services LLC, Richmond, VA, U.S.A.
ST	19	EVAP Methods/Products 2	Characterization of a temperature regulated e-cigarette for potential use as a reference device	GILLMAN I.G.; PENNINGTON A.	Enthalpy Analytical, Inc., Durham, NC, U.S.A.
ST	20	EVAP Methods/Products 2	Evaluation of cigalike products with novel mouth-end configurations and novel e-liquids	LAUTERBACH J.H.	Lauterbach & Associates, LLC, Macon, GA, U.S.A.
ST	21	EVAP Methods/Products 2	Rapid determination of important indexes of e-cigarette liquid based on near-infrared spectroscopy and PSO-SVR algorithm	ZHANG Jianqiang(1,2); LI Jingjing(1); LIU WeiJuan(1,2)	(1) Ruvian Technology Ltd., Kunming, P.R. China; (2) Yunnan Reascend Tobacco Technology (Group) Co., Ltd, Kunming, Yunnan, P.R. China
ST	23	Product Analyses	A statistical analysis of variability in polyaromatic hydrocarbons (PAHs) from reference and commercial cigarettes	WAGSTAFF W.; RICKERT W.; JOZA P.	Labstat international ULC, Kitchener, Ontario, Canada
ST	24	Product Analyses	Temporal variability of analytical testing for e-vapor products and impact on number of replicates	MORTON M.J.	Altria Client Services LLC, Richmond, VA, U.S.A.
ST	25	Product Use Behaviour	Misperception of e-cigarette harm growing among American adults, 2013-2015	VERRON T.(1); GUO M.(1); VARIGNON B.(1); O'CONNELL G.(2); WALELE T.(2); CAHOUS X.(1)	(1) SEITA - Imperial Brands plc, Paris, France; (2) Fontem Ventures B.V., Amsterdam, The Netherlands
ST	26	Product Use Behaviour	Non-addictive factors in the use of tobacco and nicotine-containing consumer products	SHERWOOD N.	Neil Sherwood Consulting, Commugny, Switzerland
ST	27	Product Use Behaviour	Characterization of puff topography of adult conventional cigarette smokers and exclusive e-vapor users during ad libitum use of MarkTen® e-vapor products	EDMISTON J.S.; VANSICKEL A.; LIANG Qiwei; GOGOVA M.; SARKAR M.; KARLES G.D.	Altria Client Services LLC, Center for Research and Technology, Richmond, VA, U.S.A.
ST	28	Product Use Behaviour	Measurement of puffing topography and mouth level exposure: Japan	PRASAD K.; GEE J.; SLAYFORD S.; GRAY A.; NOTHER K.; CUNNINGHAM A.; MAVROPOULOU E.; PROCTOR C.J.	British American Tobacco (Investments) Limited, Group R&D, Southampton, U.K.
ST	29	Analytical Methods 1	Modification of standardized methods for the measurement of nicotine in very low nicotine content cigarettes	BROWN A.P.(1); LIU Hui(2); MANSON K.(2); MELVIN M.S.(1); PIEROTTI J.(2); PITHAWALLA Y.B.(1); SMITH J.H.(1); STUTT K.(2); WAGNER K.A.(1)	(1) Altria Client Services LLC, Richmond, VA, U.S.A.; (2) Eurofins Lancaster Professional Scientific Staffing, Richmond, VA, U.S.A.
ST	30	Analytical Methods 1	Analysis of small alkylamines in mainstream cigarette smoke	ZHU J.; BROOKS C.; BOYD N.; <u>TAYYARAH R.</u>	ITG Brands, LLC, Greensboro, NC, U.S.A.
ST	31	Analytical Methods 1	Study on nicotine release from snus products with fiber-optic sensing detection technology	LI Peng(1); SHEN Yi(2); CHANG Cheng(3); ZENG Shitong(1); ZHANG Jianxun(1); ZONG Yongli(1); JIAN Xiaopeng(2); YANG Bin(2); SUN Shihao(1)	(1) Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, P.R. China; (2) Shanghai New Tobacco Product Research Institute, Shanghai, P.R. China; (3) Zhengzhou GaTech Instruments Co., Ltd., Zhengzhou, P.R. China
ST	32	Analytical Methods 1	Characterization and certification of smokeless tobacco reference products	SLONE S.; CANETE S.; SHELTON B.; <u>Ji Huihua</u> ; JACK A.M.; BUSH L.; CHAMBERS O.	Center for Tobacco Reference Products, University of Kentucky, Lexington, KY, U.S.A.
ST	33	Risk Assessment / Population Studies	Comparison of potential health risks of combustible, heat-not-burn, and electronic cigarettes	LIU C.; MARANO K.	RAI Services Company, Winston-Salem, NC, U.S.A.
ST	34	Risk Assessment / Population Studies	Potential health risks of exposure to toxic metals in e-cigarettes	LIU C.; MARANO K.; MURPHY P.; CULBERT C.	RAI Services Company, Winston-Salem, NC, U.S.A.
ST	35	Risk Assessment / Population Studies	Different population modeling approaches lead to directionally similar conclusions about the potential for tobacco harm reduction	BACHAND A.(1); SULSKY S.(1); <u>CURTIN G.</u> (2)	(1) Ramboll U.S. Corp., Amherst, MA, U.S.A.; (2) RAI Services Co., Winston-Salem, NC, U.S.A.
ST	36	Risk Assessment / Population Studies	Multi-dimensional tipping point analyses: Assessing simultaneous shifts in tobacco use patterns from a higher to a lower risk product	BACHAND A.(1); SULSKY S.(1); <u>CURTIN G.</u> (2)	(1) Ramboll U.S. Corp., Amherst, MA, U.S.A.; (2) RAI Services Co., Winston-Salem, NC, U.S.A.



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ST	37	Risk Assessment / Population Studies	Assessing the population health impact of authorizing the marketing of a smokeless tobacco product with a proposed modified risk claim	MUHAMMAD-KAH R.(1); PITHAWALLA Y.B.(1); JONES M.(1); WEI L.(1); BRYAN T.(1); BLACK R.(1); BOONE E.(2); SARKAR M.(1)	(1) Altria Client Services LLC, Richmond, VA, U.S.A.; (2) Virginia Commonwealth University, Richmond, VA, U.S.A.
ST	38	Product Design	Impact of cigarette paper parameters on smoke yields of cigarettes with different circumferences	MÜLLER P.; GLEINSER M.; BACHMANN S.; VOLGGER D.	Papierfabrik Wattens GmbH & Co. KG, Wattens, Austria
ST	39	Product Design	Impact of cigarette paper and blend on super slim, slim and king-size cigarette designs	WANNA J.(1); CHEN Cai(2); XIAO Cuicui(3); LIANG Chenze(3); RUI Li(4); ZHANG Wenjun(4)	(1) SWM Intl., Alpharetta, GA, U.S.A.; (2) SWM Shanghai Representative Office, Shanghai, P.R. China; (3) China Tobacco Mauduit, Jiangmen, Guangdong, P.R. China; (4) China Tobacco Schweitzer, Yuxi City, Yunnan, P.R. China
ST	40	Product Design	Transfer of cigarette paper ingredients into mainstream smoke	WANG Xiaoping(1); CHEN Cai(2); WANNA J.(3); XIAO Cuicui(1)	(1) China Tobacco Mauduit, Jiangmen, Guangdong, P.R. China; (2) SWM Shanghai Representative Office, Shanghai, P.R. China; (3) SWM Intl., Alpharetta, GA, U.S.A.
ST	41	Product Design	Functional filter wrapping materials and their impacts on specific properties of factory-made cigarettes and heated tobacco products	LINDNER M.(1); MAIWALD B.(2); DITTOBEE H.(2); LEICHSENIGN N.(2)	(1) TANNPAPIER GmbH, Traun, Austria; (2) Hauni Maschinenbau GmbH, Hamburg, Germany
ST	43	Methods	On-line puff resolved analysis of cigarette smoke, e-cigarette vapour and vapour of tobacco heating products	ZIMMERMANN R.(1); EHLERT S.(1,2); HEIDE J.(1); WALTE A.(2)	(1) University of Rostock, Dept. of Analytical Chemistry, Rostock, Germany; (2) Photonion GmbH, Schwerin, Germany
ST	44	Methods	Time and spatially resolved in-situ determination of temperature, pressure and gas phase concentration of selected smoke constituents inside a burning superslim cigarette. Part I – Thermophysical mapping	CUI Huapeng(1); EHLERT S.(2); XIE Fuwei(1); DENG Nan(1); LI Bin(1); LIU Chuan(3); McADAM K.(3); WALTE A.(2); ZIMMERMANN R.(2)	(1) Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, Henan, P.R. China; (2) Photonion GmbH, Schwerin, Germany; (3) British American Tobacco (Investments) Limited, Global R&D, Southampton, U.K.
ST	45	Methods	Time and spatially resolved in-situ temperature and pressure measurements with soft ionisation mass spectrometry inside a burning superslim cigarette. Part II – thermochemical mapping	EHLERT S.(1,3); CUI Huapeng.(2); HEIDE J.(3); XIE Fuwei(2); DENG Nan(2); LIU Chuan(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	46	Methods	Numerical simulation of cigarette smoking process	LI Qiaoling(1); MA Pengfei(1); LIU Xiucui(1); HUANG Huizhen(1); LIN Yan(1); XU Hanchun(1); HUANG Chaozhang(1); ZHENG Quanxing(1); LI Yuefeng(1); CHEN Xiaodong(2); LI Bin(3)	(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	47	Process / Quality	Study on reducing the fragmentation rate of paper-making reconstituted tobacco during the cutting process in the cigarette factory	ZHANG Wenjun(1); TENNIER J.(2); TU Yangang(1); ZHANG Yan(3); ZHENG Jianyu(1); ZHANG Mengyuan(1); LI Rui(1); LIU Jing(1); XIONG Zhen(1); ZHOU Guiyuan(1)	(1) China Tobacco Schweitzer (Yunnan) Reconstituted Tobacco Co., Ltd, Yuxi City, Yunnan, P.R. China; (2) SWM Intl., Alpharetta, GA, U.S.A.; (3) Yunnan Tobacco Quality Supervision and Inspection Station, Kunming, Yunnan, P.R. China
ST	48	Process / Quality	Research on colour improvement of paper-making reconstituted tobacco	SU Dandan(1); TU Yangang(1); ZHANG Wenjun(1); TENNIER J.(2); WEI Mingwen(1); WANG Xiaosheng(1); FENG Tao(1); MI Lan(1); ZHOU Guiyuan(1)	(1) China Tobacco Schweitzer (Yunnan) Reconstituted Tobacco Co., Ltd, Yuxi City, Yunnan, P.R. China; (2) SWM Intl., Alpharetta, GA, U.S.A.
ST	49	Process / Quality	Digital characterization of atomization characteristics of nozzle for tobacco casing	ZHOU Bing(1); HE Banghua(1); LIU Ze(1); YUAN Ruibo(2); TANG Jun(1)	(1) Technology Center, China Tobacco Yunnan Industrial Co., Ltd., Kunming, P.R. China; (2) Faculty of Mechanical and Electrical Engineering, Kunming University of Science and Technology, Kunming, P.R. China
ST	50	Process / Quality	The development and application of near-infrared spectroscopy analysis of the network system of the tobacco leaf	QIU Changgui(1,2); HOU Ying(1,2); YANG Shihua(1,2); YUAN Tianjun(1,2); WANG Jiajun(3); YANG Jiahong(4); SHAO Xueguang(5)	(1) Yunnan Reascend Tobacco Technology (Group) Co., Ltd., Kunming, P.R. China; (2) Yunnan Comtestor Co., Ltd., Kunming, P.R. China; (3) Technology Center of China Tobacco Yunnan Industrial Co., Ltd., Kunming, P.R. China; (4) College of Polytechnic, Hunan Normal University, Changsha, P.R. China; (5) China Research Center for Analytical Sciences, College of Chemistry, Nankai University, Tianjin, P.R. China
ST	51	Process / Quality	Flavour migration through capsule shell	MOSTOVOJUS V.; TUCINSKAS G.; LUSCIKAITE L.	Nemuno Banga LLC, Lentvaris, Lithuania



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ST	52	Risk Perception	Consumers' perceptions of disease-specific modified-risk claims are best evaluated in a disease-specific manner	SHIFFMAN S.(1); CURTIN G.(2)	(1) Pinney Associates, Pittsburgh, PA, U.S.A.; (2) RAI Services Company, Winston-Salem, NC, U.S.A.
ST	53	Risk Perception	Comparing direct and indirect assessments of perceptions of reduced risk for a modified-risk tobacco product	SHIFFMAN S.(1); CURTIN G.(2)	(1) Pinney Associates, Pittsburgh, PA, U.S.A.; (2) RAI Services Company, Winston-Salem, NC, U.S.A.
ST	54	Risk Perception	A cross-sectional survey to assess tobacco and nicotine product use behaviour in Japan	ADAMSON J.; PRASAD K.; CAMACHO O.M.; MURPHY J.	British American Tobacco (Investments) Limited, R&D, Southampton, U.K.
ST	55	Analytical Methods 2	Determination of tobacco alkaloid enantiomers using reversed phase UPLC/MS/MS	Ji Huihua(1); WU W.(1); FANNIN F.(2); BUSH L.(2)	(1) Kentucky Tobacco Research and Development Center, Lexington, KY, U.S.A.; (2) Department of Plant and Soil Sciences, University of Kentucky, Lexington, KY, U.S.A.
ST	56	Analytical Methods 2	Photoionization time-of-flight mass spectrometry as a tool for the identification of selected isomers in the gas phase of mainstream cigarette smoke	HU Yonghua(1); WANG Jian(1); TIAN Zhenfeng(1); CHEN Kaibo(1); XU Yingbo(1); PAN Yang(2)	(1) Technology Center, China Tobacco Anhui Industrial Co., Ltd., Hefei, Anhui, P.R. China; (2) National Synchrotron Radiation Laboratory, University of Science and Technology of China, Hefei, Anhui, P.R. China
ST	59	Biomarkers	An inter-laboratory comparison study focused on the determination of total NNAL in human urine	NEWLAND K.(1); SCHERER M.(2); HECHT S.S.(3); TROUDE V.(4); PRASAD G.L.(5)	(1) Celerion Inc., Lincoln, NE, U.S.A.; (2) ABF GmbH, Planegg, Germany; (3) University of Minnesota Cancer Center, Minneapolis, MN, U.S.A.; (4) Reemtsma Cigarettenfabriken GmbH, Imperial Brands plc, Hamburg, Germany; (5) RAI Services Company, Winston-Salem, NC, U.S.A.
ST	60	Biomarkers	Assessing changes in biomarkers of effect in smokers who switch to a closed system electronic cigarette	MASON L.; CAHOURS X.; O'CONNELL G.; WALELE T.	Imperial Brands, Bristol, U.K.
ST	61	Biomarkers	Novel biomarkers to characterize exposure to aldehydes from e-vapor products based on stable-isotope constituents	LANDMESSER A.(1); SCHERER M.(1); SCHERER G.(1); SARKAR M.(2); EDMISTON J.S.(2); PLUYM N.(1)	(1) ABF Analytisch-Biologisches Forschungslabor GmbH, Planegg, Germany; (2) Altria Client Services LLC, Center for Research and Technology, Richmond, VA, U.S.A.
ST	62	Biomarkers	Immune functions are perturbed to a greater extent with smoking rather than moist snuff use	TRAN Q.T.(1); ARIMILLI S.(2); JOHNSON E.(3); LIU Gang(1); PRASAD G.L.(1)	(1) RAI Services Company, Winston-Salem, NC, U.S.A.; (2) Wake Forest University, School of Medicine, Department of Microbiology and Immunology, Winston-Salem, NC, U.S.A.; (3) University of North Carolina, Department of Mathematics and Statistics, Greensboro, NC, U.S.A.
ST	63	Biomarkers	Metabolomics analysis identified reduced levels of oxidative stress and improved vitamin metabolism in smokers switching to an electronic nicotine delivery system (ENDS)	LIU Gang; NASRIN N.; TRAN Q.T.; PRASAD G.L.	RAI Services Company, Winston-Salem, NC, U.S.A.
ST	64	Aerosol Science	What fundamental tobacco science teaches us about heated tobacco products – assessment on THP1.0	EATON D.; JAKAJ B.; FORSTER M.; LIU Chuan; PRASAD K.	British American Tobacco (Investments) Limited, R&D, Southampton, U.K.
ST	67	Aerosol Science	Study on combustibility and particle size distribution in smoke aerosols of cigarettes with different circumferences	ZHU Ruizhi; SI Xiaoxi; LI Zhenjie; HE Pei; WANG Kai; YOU Junheng; JIANG Wei; SHEN Qinpeng; SU Zhongbi; LIU Zhihua	R&D Center of China Tobacco Yunnan Industrial Co. Ltd of CNTC, Yunnan, P.R. China
ST	68	Aerosol Science	E-cigarette aerosol dynamics in a physical model of the adult human oral/pharyngeal/tracheal cavity	WANG Qing; CASTRO N.D.; ZHANG Jingjie; LI Weiling; PITHAWALLA Y.B.; OLDHAM M.J.; LIPOWICZ P.; ROSTAMI A.A.	Altria Client Services LLC, Research, Development & Regulatory Affairs, Richmond, VA, U.S.A.
STW	01	Workshop: Risk Assessment	Quantitative risk assessment to compare health risks of chemicals in consumer products	SANTAMARIA A.B.; KROTENBERG M.E.	Rimkus Consulting Group, Houston, TX, U.S.A.
STW	02	Workshop: Risk Assessment	Quantitative risk assessment (QRA)-based prioritization of mainstream cigarette smoke toxicants	LI Xiang(1); SHANG Pingping(1); XIE Fuwei(1); ZHU Maoxiang(2); YANG Zhihua(2); NIE Cong(1); LIU Huimin(1); XIE Jianping(1)	(1) Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, Henan, P.R. China; (2) Beijing Institute of Radiation Medicine, Beijing, P.R. China
STW	03	Workshop: Risk Assessment	Purpose-driven risk assessment of tobacco products	ERKKILA B.E.	Foundation for a Smoke-Free World, DE, U.S.A.
STW	04	Workshop: Risk Assessment	A framework for toxicological risk assessment of combustible tobacco products in the substantial equivalence pathway	EHMAN K.	Altria Client Services LLC, Richmond, VA, U.S.A.
STW	05	Workshop: Biomarkers	The role of biomarkers in assessing individual health risks of tobacco products	SARKAR M.	Altria Client Services LLC, Center for Research and Technology, Richmond, VA, U.S.A.
STW	06	Workshop: Biomarkers	Biomarkers of tobacco smoke exposure in the U.S. population: result and resources from the National Health and Nutrition Examination Survey (NHANES)	BLOUNT B.C.	Tobacco and Volatiles Branch, Division of Laboratory Sciences, Centers for Disease Control and Prevention, Atlanta, GA, U.S.A.



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STW	07	Workshop: Biomarkers	Identifying suitable biomarkers of biological effects (BOBEs) for evaluating reduced risk products	SCHERER G.; PLUYM N.; SCHERER M.	ABF Analytisch-Biologisches Forschungslabor GmbH, Planegg, Germany
STW	08	Workshop: Biomarkers	Biomarker qualification using adverse outcome pathways (AOPs)	McEWAN M.	British American Tobacco (Investments) Limited, R&D, Southampton, U.K.
STPOST	01	Poster	Cross-sectional surveys on the use of tobacco products in the general population and in users of IQOS in Germany, Italy, and London (2018-2020): introducing the study protocols	SPONSIELLO-WANG Z.; LANGER P.; PRIETO L.; DOBRYNINA M.; SKIADA D.; CAMILLE N.; WEITKUNAT R.; LÜDICKE F.	Philip Morris Products S.A. (part of Philip Morris International group of companies), PMI R&D, Neuchâtel, Switzerland
STPOST	02	Poster	Quantification of nitrogen oxides in aerosol of heat-not-burn IQOS product and combination of aerosol collection with the aerosol generation for TSNA analysis	BADER P.; DEBRICK A.; GAUTIER L.; RADTKE F.; HUNKELER P.; MATERA R.; REYREN C.; CRENNNA M.; STOOP A.	Philip Morris Products S.A. (part of Philip Morris International group of companies), PMI R&D, Neuchâtel, Switzerland
STPOST	03	Poster	Determination of nicotine, eugenol, menthol and aerosol formers in tobacco products and materials	BELLO J.; D'AGOSTINO A.; JUVET-PECALVEL C.; NAGANATHAN K.; ROTA C.; GAUTIER L.; O'REILLY C.; DUPASQUIER N.; YERLY M.	Philip Morris Products S.A. (part of Philip Morris International group of companies), PMI R&D, Neuchâtel, Switzerland
STPOST	05	Poster	Examining intra-individual and inter-individual variability of plasma nicotine PK parameters in e-vapor use by adult cigarette smokers in three studies	LIANG Qiwei; ZHAO Yuxi; WANG Jingzhu; BLACK R.	Altria Client Services LLC, Center for Research and Technology, Richmond, VA, U.S.A.
STPOST	06	Poster	Research on the application of microwave non-destructive testing technology for detection of capsule filter rod or capsule cigarette	ZHANG Long; ZHAO Shumi; LI Zhigang; ZHU Zhen; LIU Yong	Institute of Applied Technology, Hefei Institutes of Physical Science, Chinese Academy of Sciences, Hefei, P.R. China
STPOST	07	Poster	Computer tomography-based analysis of the inner structure of tobacco products	TOBIAS J.; KRASMIK V.	Hauni Maschinenbau GmbH, Hamburg, Germany
STPOST	08	Poster	Effects of treatment time of ultraviolet irradiation and ozone on the internal quality of the redrying tobacco	XU Chunping(1); BAI Jiafeng(2); ZHENG Kai(3); ZHU Guocheng(3); HU Zhizhong(2); JIANG Yu(1); XU Heng(4); LI Shufang(3); YANG Zhiqiang(3)	(1) College of Food and Biological Engineering, Zhengzhou University of Light Industry, Zhengzhou, Henan, P.R. China; (2) Technical Center, China Tobacco Guangxi Industrial Co. Ltd, Nanning, Guanxi, P.R. China; (3) Xuchang Cigarette Factory, China Tobacco Henan Industrial Co., Ltd. Xuchang, Henan, P.R. China; (4) Technical Center, China Tobacco Henan Industrial Co. Ltd, Zhengzhou, Henan, P.R. China
STPOST	09	Poster	End-point detection of electronic nicotine delivery systems (ENDS) and tobacco heated products	LAIMON H.N.; HOLLOWAY P.; VINCENT J.H.; TINDALL I.F.	Cerulean, Milton Keynes, U.K.
STPOST	10	Poster	Principal component analysis of volatile components in refill liquids for electronic cigarettes with different tastes	XU Chunping(1); MA Kuoyan(2); HAO Hui(3); CHEN Zhifei(3); ZHAO Shanshan(1)	(1) College of Food and Biological Engineering, Zhengzhou University of Light Industry, Zhengzhou, P.R. China; (2) Technical Center of China Tobacco Chongqing Industrial Co., Ltd., Chongqing, P.R. China; (3) Technical Center of China Tobacco Henan Industrial Co. Ltd, Zhengzhou, Henan, P.R. China
STPOST	11	Poster	Characterization of flavor transfer during smoking of cigarettes with flavor capsules and aromatized tobacco cigarettes using SPME-GCMS	RUFENER C.; BANCHERO M.; UMPIERREZ E.; BENSE T.	C.I.T. Montepaz S.A., Montevideo, Uruguay
STPOST	12	Poster	Characterization of the Vitrocell® high throughput exposure modules using different tobacco product types	LEVERETTE R.(1); KEYSER B.(2); SEYMOUR A.(2); HOLLINGS M.(2); BOMBICK B.(1)	(1) RAI Services Company, Scientific & Regulatory Affairs, Winston-Salem, NC, U.S.A.; (2) Covance Laboratories Ltd, Harrogate, North Yorkshire, U.K.
STPOST	13	Poster	Genotoxicity evaluation of tobacco and nicotine delivery products: Part 1. Mouse lymphoma assay	LEVERETTE R.(1); THORNE D.(2); BREHENY D.(2); FOWLER K.(1); McENANEY S.(3); LLOYD M.(3); CLEMENTS J.(3); BOMBICK B.(1); GACA M.(2)	(1) RAI Services Company, Scientific & Regulatory Affairs, Winston-Salem, NC, U.S.A.; (2) British American Tobacco (Investments) Ltd., Southampton, U.K.; (3) Covance Laboratories Ltd, Harrogate, North Yorkshire, U.K.
STPOST	14	Poster	Genotoxicity evaluation of tobacco and nicotine delivery products: Part 2. In Vitro micronucleus assay	LEVERETTE R.(1); THORNE D.(2); BREHENY D.(2); FOWLER K.(1); McENANEY S.(3); WHITWELL J.(3); CLEMENTS J.(3); BOMBICK B.(1); GACA M.(2)	(1) RAI Services Company, Scientific & Regulatory Affairs, Winston-Salem, NC, U.S.A.; (2) British American Tobacco (Investments) Ltd., Southampton, U.K.; (3) Covance Laboratories Ltd, Harrogate, North Yorkshire, U.K.
STPOST	15	Poster	Temperature logging of next generation heat-not-burn aerosol	TINDALL I.F.; COLE A.	Cerulean, Milton Keynes, U.K.
STPOST	17	Poster	Evaluation of reduction in exposure to selected cigarette smoke constituents after switching to novel tobacco vapor product (NTV) use during a five-day confinement study in Japan	TAKESHIGE Y.; YUKI D.; NAKAYA K.; FUTAMURA Y.	Japan Tobacco Inc., Scientific Product Assessment Center, Yokohama, Kanagawa, Japan



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STPOST	18	Poster	Evaluation of subjective effects and product use patterns of novel tobacco vapor product (NTV) use during a five-day confinement study in Japan	NISHIHARA D.; YUKI D.; NAKAYA K.; TAKESHIGE Y.; FUTAMURA Y.	Japan Tobacco Inc., Scientific Product Assessment Center, Yokohama, Kanagawa, Japan
STPOST	19	Poster	Simultaneous analysis of five tobacco-specific N-nitrosamines in blood plasma of non-smokers and smokers using fully automated online solid phase extraction-liquid chromatography-tandem mass spectrometry	ZHANG Jie(1); LIU Xingyu(1); BAI Ruoshi(1); YANG Zhendong(1); SHI Bing(2); ZHANG Chen(1); ZHOU Jun(1)	(1) Beijing Workstation, Technology Center, Shanghai Tobacco Group Co., Ltd of CNTC, Beijing, P.R. China; (2) Army General Hospital of PLA, Beijing, P.R. China
STPOST	20	Poster	Factors influencing burning cone fallout of super slim cigarettes	YU Saibo; TAN Chao; WANG Shitai; GUO Xuemin; JIN Yong; WU Yizi; FAN Hongmei; LI Ke; TAN Haifeng; LIU Qi; CHEN Qian	Technology Center of China Tobacco Hunan Industrial Co., Ltd of CNTC, Hunan, P.R. China
STPOST	21	Poster	Cigarette combustion parameters and their effects on the deliveries of selected mainstream smoke constituents	ZHUANG Yadong; HE Hongmei; ZHANG Yuan; CAO Yi; ZHU Huaiyuan; XIONG Xiaomin; CHEN Jingbo	Technology and Research Center, China Tobacco Jiangsu Industrial Co., Ltd of CNTC, P.R. China
STPOST	22	Poster	Simultaneous determination of 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanol and cotinine in urine of smokers using two-dimensional liquid chromatography/tandem mass spectrometry	LI Gang; WANG Yangzhong; TAO Liqi; WU Da; YAO Heming; LIU Baizhan	Shanghai Tobacco Group Co., Ltd. of CNTC, Shanghai, P.R. China
STPOST	23	Poster	Determination of 15 PAHs in mainstream cigarette smoke using concurrent solvent recondensation (CSR) injection combined with GC-MS/MS	LUO Chen; QI Dawei; TAO Liqi; WU Bingyu; WU Da	Technology Centre of Shanghai Tobacco Group Co., Ltd. of CNTC, Shanghai, P.R. China
STPOST	24	Poster	Influences of chronic alcohol consumption and critical enzyme regulation on the in vivo metabolism of NNK in mice	MAO Jian(1); ZHANG Qidong(1); WANG Ronghao(1); LI Chen(1); LIU Shuidong(2); CHAI Guobi(1); WANG Dingzhong(1); XI Hui(1); LIU Junhui(1); ZHANG Jianxun(1)	(1) Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, P.R. China; (2) Technology Center of China Tobacco Shaanxi Industrial Co., Ltd., Baoji, Shaanxi, P.R. China
STPOST	25	Poster	A simplified analytical method for determining metals in e-liquid	SHIMAZU A.(1); MIZUNO M.(2); NAGAE H.(2)	(1) Japan Tobacco Inc., Product Quality Research Center, Tokyo, Japan; (2) Japan Tobacco Inc., Product Quality Research Center, Yokohama, Kanagawa, Japan
STPOST	26	Poster	Determination of carbonyl compounds in gas vapour phase in phosphate buffered saline by LC-MS/MS for use with traditional tobacco and electronic nicotine delivery system (ENDS) products	HOLLINGS M.(1); SEYMOUR A.(1); LYNCH A.(2); LARNER J.(1); CLEMENTS J.(1); HENDERSON L.(2)	(1) Covance Laboratories Limited, Harrogate, U.K.; (2) Broughton Laboratories Ltd, Skipton, U.K.
STPOST	28	Poster	Non-targeted analysis for differential screening of tobacco samples	MILLER J.H.; PITHAWALLA Y.B.; DANIELSON T.L.; XU Dongmei	Altria Client Services LLC, Richmond, VA, U.S.A.
STPOST	29	Poster	Toxicological assessment of e-liquid formulations using in vitro genotoxicity and cytotoxicity assays	COFFA B.G.; DOSHI U.; ZHANG Jingjie; MCKINNEY W.J.; LEE K.M.	Altria Client Services LLC, Richmond, VA, U.S.A.
STPOST	30	Poster	Effects of exposure to e-cigarette aerosols compared with cigarette smoke on 3D human buccal and small airway cultures: a systems toxicology assessment	ISKANDER A.(1); STEINER S.(1); MAJEED S.(1); KONDYLIS A.(1); XIANG Yang(1); ZANETTI F.(1); FRENTZEL S.(1); MARTIN F.(1); PEITSCH M.C.(1); DOSHI U.(2); MCKINNEY W.J.(2); LEE K.M.(2); HOENG J.(1)	(1) Philip Morris Products S.A. (part of Philip Morris International group of companies), PMI R&D, Neuchâtel, Switzerland; (2) Altria Client Services LLC, Research, Development & Regulatory Affairs, Richmond VA, U.S.A.
STPOST	31	Poster	The relationship between pharmacokinetic parameters and the amount of e-liquid used by cigarette smokers under two e-vapor product use conditions	LIANG Qiwei; WANG Jingzhu; BLACK R.; LIU Jianmin	Altria Client Services LLC, Center for Research and Technology, Richmond, VA, U.S.A.
STPOST	32	Poster	Characterization and in vitro testing of whole smoke condensates from combustible cigarettes	DOSHI U.(1); GARDNER W.P.(1); GILLMAN I.G.(2); LEE K.M.(1)	(1) Altria Client Services LLC, Research, Development & Regulatory Affairs, Richmond, VA, U.S.A.; (2) Enthalpy Analytical, Inc., Richmond, VA, U.S.A.
STPOST	34	Poster	Characterization of an air-liquid-interface (ALI) in vitro exposure system (VITROCELL® VC1/7 and Ames 48) using a prototype e-vapor product	ZHANG Jingjie(1); DOSHI U.(1); OLDFHAM M.J.(1); COFFA B.G.(1); GILLMAN I.G.(2); WOLZ R.L.(2); KOSACHEVSHY P.(2); LEE K.M.(1)	(1) Altria Client Services LLC, Richmond, VA, U.S.A.; (2) Enthalpy Analytical, Inc., Richmond, VA, U.S.A.
STPOST	35	Poster	Simultaneous determination analysis of nicotine, propylene glycol, glycerol and menthol in vapor of tobacco vapor products	MICHIKAWA H.; OMORI E.	Japan Tobacco Inc., Product Quality Research Center, Yokohama, Kanagawa, Japan
STPOST	36	Poster	Analysis of the TPD2-related flavor compounds in cigarettes by GC-MS/MS and LC-MS/MS	ORIKATA N.(1); SATO S.(2); TOBITA T.(1); OGAWA T.(1); NINOMIYA M.(1)	(1) Japan Tobacco Inc., Product Quality Research Center, Yokohama, Kanagawa, Japan; (2) JTI Ökolab, Vienna, Austria
STPOST	37	Poster	Simultaneous determination of sugar alcohols in cigarettes by LC-MS/MS	OGAWA T.(1); TOBITA T.(1); ORIKATA N.(1); SATO S.(2); NINOMIYA M.(1)	(1) Japan Tobacco Inc., Product Quality Research Center, Yokohama, Kanagawa, Japan; (2) JTI Ökolab, Vienna, Austria
STPOST	39	Poster	The use of high content screening (HCS) in human primary lung cells to assess e-liquids of differing flavors and nicotine concentrations	SIMMS L.(1); CZEKALA L.(1); STEVENSON M.(1); PHILLIPS G.(1); WALELE T.(2)	(1) Imperial Brands, Bristol, U.K.; (2) Fontem Ventures, Amsterdam, The Netherlands



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STPOST	40	Poster	Analytical methods for the determination of aldehydes in e-vapor aerosol and cigarette smoke and their urinary biomarkers of exposure	LANDMESSER A.(1); SCHERER M.(1); SCHERER G.(1); SARKAR M.(2); EDMISTON J.S.(2); PLUYN N.(1)	(1) ABF Analytisch-Biologisches Forschungslabor GmbH, Planegg, Germany; (2) Altria Client Services, Center for Research and Technology, Richmond, VA, U.S.A.
STPOST	41	Poster	LC-MS/MS multi-method for the determination of mono- and dicarbonyls in e-liquid and e-cigarette vapor	POUR G.; WERNETH M.; KUBA M.; OHASHI S.; MAYER-HELM B.; SCHMEISSER E.	JTI Ökolab, Vienna, Austria
STPOST	42	Poster	Observation of wicking behavior of an electronic nicotine delivery system (ENDS) device using weight-time measurements	PLATT S.P.; THORN E.K.; RAGLAND R.B.; RUSYNIAK M.J.	Altria Client Services LLC, Richmond, VA, U.S.A.
STPOST	43	Poster	In vitro micronucleus (MN) assay using TK6 cells: review of historical positive and negative control data	STANKOWSKI L.F. Jr(1); HURTADO S.B.(1); WELLS M.M.(1); KWOK V.Y.(1); DOSHI U.(2); COFFA B.G.(2); LEE K.M.(2)	(1) Charles River Laboratories, Genetic and In Vitro Toxicology, Skokie, IL, U.S.A.; (2) Altria Client Services LLC, Research, Development & Regulatory Affairs, Richmond, VA, U.S.A.
STPOST	44	Poster	Non-targeted analysis using gas chromatography mass spectrometry to evaluate stability of e-vapor products	SHAH N.; CROSSWHITE M.; NOE M.R.; SUAREZ C.; MILLER J.H.; PITHAWALLA Y.B.; GARDNER W.P.	Altria Client Services LLC, Richmond, VA, U.S.A.
STPOST	45	Poster	Ames assay cytotoxic assessment using bacterial lawn integrity with 35 mm plate spread technique	BHARTI S.K.(1); FARISS M.W.(2); DESAI P.(1)	(1) Enthalpy Analytical, Inc., Henrico, VA, U.S.A.; (2) ToxSynergy LLC, Midlothian, VA, U.S.A.
STPOST	46	Poster	Validation of an in vitro test battery to evaluate smokeless tobacco products	HURTADO S.B.(1); LALLIER B.(1); TYDRICK C.(1); LIU Z.(2); GUMP J.(2); BISWAS K.(2); KWOK V.Y.(1); STANKOWSKI L.F. Jr(1)	(1) Charles River Laboratories, Genetic and In Vitro Toxicology, Skokie, IL, U.S.A.; (2) Charles River Laboratories, Analytical Chemistry, Ashland, OH, U.S.A.
STPOST	47	Poster	Effect of ethanol concentration on chemical composition of tobacco extracts	ZHENG Jianyu(1); LIU Changbo(1); ZHANG Wenjun(1); TENNIER J.(2); FU Yin(1); XIONG Zhen(1); CHEN Shaoquan(1); FENG Tao(1); WANG Yanhong(1); ZHOU Guiyuan(1)	(1) China Tobacco Schweitzer (Yunnan) Reconstituted Tobacco Co., Ltd, Yuxi City, Yunnan, P.R. China; (2) SWM Intl., Alpharetta, GA, U.S.A.
STPOST	48	Poster	Six-month systems toxicology inhalation/cessation study in ApoE-/- mice to investigate cardiovascular and respiratory exposure effects of two reduced risk tobacco products compared with conventional cigarettes	PHILLIPS B.(2); SZOSTAK J.(1); HO J.(2); GUEDJ E.(1); WONG Ee Tsin(2); TALIKKA M.(1); LEBRUN S.(1); TITZ B.(1); MARTIN F.(1); VUILLAUME G.(1); LEROY P.(1); IVANOV N.(1); VANSCHEEUWIJCK P.(1); PEITSCH M.C.(1); HOENG J.(1)	(1) Philip Morris Products S.A. (part of Philip Morris International group of companies), PMI R&D, Neuchâtel, Switzerland; Philip Morris International Research Laboratories Pte. Ltd., (part of Philip Morris International group of companies), PMI R&D, Singapore
STPOST	49	Poster	Vacuum photoionisation TOF-MS as technique to analyze complex gas mixtures on-line and in real time	EHLERT S.(1,2); HEIDE J.(2); WALTE A.(1); ZIMMERMANN R.(2)	(1) Photonion GmbH, Schwerin, Germany; (2) University of Rostock, Dept. of Analytical Chemistry, Rostock, Germany
STPOST	50	Poster	A risk-based approach for the validation of bespoke smoking analyser software	JONES J.; PRASAD K.; SLAYFORD S.; GRAY A.; MACRAE C.; THOMPSON C.	British American Tobacco (Investments) Limited, Group R&D, Southampton, U.K.
STPOST	51	Poster	Simultaneous measurement of cilia beat frequency, goblet cell hyperplasia and TEER endpoints in EpiAirway™-FT treated tissues may reveal underlying toxicity mechanisms in vitro	WOODHAMS A.(1); KIDD D.(1); DAUNT A.(2); POSTOYALCO A.(2); HOLLINGS M.(1)	(1) Department of Genetic Toxicology, Covance Laboratories Ltd, Harrogate, U.K.; (2) Special Pathology Services, Covance Laboratories Limited, Harrogate, U.K.
STPOST	52	Poster	Biological test procedure for fresh generated cigarette smoke and e-cigarette aerosols under air-liquid interface (ALI) exposure in 24 and 96 multi-well plates	WIECZOREK R.(1); TRELLES STICKEN E.(1); WALELE T.(2); CZEKALA L.(3); SIMMS L.(3)	(1) Reemtsma Cigarettenfabriken GmbH, Imperial Brands plc, Hamburg, Germany; (2) Fontem Ventures, Amsterdam, The Netherlands; (3) Imperial Tobacco Limited, Bristol, U.K.
STPOST	53	Poster	Use of human derived cell lines to increase the biological relevance of cigarette condensate, non-tobacco materials and e-liquids testing	WIECZOREK R.(1); TRELLES STICKEN E.(1); WALELE T.(2); CZEKALA L.(3); SIMMS L.(3)	(1) Reemtsma Cigarettenfabriken GmbH, Imperial Brands plc, Hamburg, Germany; (2) Fontem Ventures, Amsterdam, The Netherlands; (3) Imperial Tobacco Limited, Bristol, U.K.
STPOST	54	Poster	Patterns of use behaviors in a sample of Japanese heat-not-burn tobacco product (IQOS) users	AFOLALU E.F.; LANGER P.; PRIETO L.; SKIADA D.; DOBRYNINA M.; SPONSIELLO-WANG Z.; WEITKUNAT R.; LÜDICKE F.	Philip Morris Products S.A. (part of Philip Morris International group of companies), PMI R&D, Neuchâtel, Switzerland
STPOST	55	Poster	A randomised, controlled study to evaluate the effects of switching from cigarette smoking to using tobacco heating products on health effect indicators in healthy subjects	HARDIE G.; NEWLAND N.; MCEWAN M.; EBAJEMITO J.K.; GALE N.; CAMACHO O.M.; MURPHY J.; PROCTOR C.J.	British American Tobacco (Investments) Limited, R&D, Southampton, U.K.
STPOST	56	Poster	Application and use of e-cigarettes HPHC methods for the analysis of heated tobacco products	GILLMAN I.G.; HUMPHRIES K.E.; MARTIN A.M.; LASSITER S.; HILLDRUP J.	Enthalpy Analytical, Inc., Durham, NC, U.S.A.
STPOST	57	Poster	Assessing the potential population health impact of market authorization of e-cigarettes in the U.S.	MUHAMMAD-KAH R.; PITHAWALLA Y.B.; HANNEL T.; WEI L.; BLACK R.; BRYAN T.; GOGOVA M.	Altria Client Services LLC, Richmond, VA, U.S.A.



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STPOST	58	Poster	Developing fit-for-purpose self-report instruments for assessing consumer responses to tobacco and nicotine products: the ABOUT Toolbox initiative	CHREA C.(1); SPIES E.(1); AFOLALU E.F.(1); MAINY N.(1); GALLOT S.(1); BINGGELI P.(1); CLERC E.(1); WEITKUNAT R.(1); SALZBERGER T.(2); CANO S.(3); ACQUADRO C.(4); ARNOULD B.(4); LAMBERT J.(4); BRUNEL V.(4); MARCUCCILLI C.(4); ABETZ-WEBB L.(5); ROSE J.(5); FAGERSTRÖM K.(5)	(1) Philip Morris Products S.A. (part of Philip Morris International group of companies), Neuchâtel, Switzerland; (2) University of Economics and Business, Vienna, Austria; (3) ScaleReport, Ltd, Stotfold, U.K.; (4) Mapi, an ICON plc Company, Lyon, France; (5) Patient-Centered Outcomes Assessments, Ltd, Macclesfield, Cheshire, U.K.; (6) Rose Research Center, Raleigh, NC, U.S.A.; (7) K. Fagerström Consulting AB, Vaxholm, Sweden
STPOST	59	Poster	Quantification of nicotine related impurities in novel, oral tobacco-derived nicotine products	DANIELSON T.L.; McFARLANE C.B.; NOE M.R.; <u>PITHAWALLA Y.B.</u> ; McKINNEY W.J. Jr	Altria Client Services LLC, Research, Development & Regulatory Sciences, Richmond, VA, U.S.A.
STPOST	60	Poster	Evaluation of novel, oral tobacco-derived nicotine products for HPHCs	DANIELSON T.L.; McFARLANE C.B.; <u>BROWN A.P.</u> ; JIN Xiaohong C.; WILKINSON C.T.; PITHAWALLA Y.B.; McKINNEY W.J. Jr	Altria Client Services LLC, Research, Development & Regulatory Sciences, Richmond, VA, U.S.A.
STPOST	61	Poster	A 6-month inhalation study in Apoe-/- mice to investigate cardiovascular and respiratory exposure effects of e-vapor aerosols compared with cigarette smoke	WONG Ee Tsin(1); SZOSTAK J.(2); KRISHNAN S.(1); TAN Wei Teck(1); SEOW E.(1); TENG C.(1); <u>LEE K.M.</u> (3); ZHANG Jingjie(3); McKINNEY W.J.(3); PEITSCH M.C.(2); VANSCHEEUWIJCK P.(2); HOENG J.(2)	(1) Philip Morris International Research Laboratories Pte. Ltd., (part of Philip Morris International group of companies), PMI R&D, Singapore; (2) Philip Morris Products S.A. (part of Philip Morris International group of companies), PMI R&D, Neuchâtel, Switzerland; (3) Altria Client Services LLC, Richmond, VA, U.S.A.
STPOST	62	Poster	Nasal mucociliary clearance is a physiologically-relevant biomarker of tobacco effect/potential harm	MAKENA P.; BAXTER S.; JONES B.A.; EVANS E.H.; CHEN P.; KREBS H.; GILL R.K.; <u>PRASAD G.L.</u>	RAI Services Company, Winston-Salem, NC, U.S.A.
STPOST	63	Poster	Challenges and opportunities in cigar science	SMITH J.H.(1); AUBUCHON S.M.(1); WAGNER K.A.(1); McKINNEY W.J.(1); GILLMAN I.G.(2); STEVENS R.(3)	(1) Altria Client Services LLC, Richmond, VA, U.S.A.; (2) Enthalpy Analytical, Inc., Henrico, VA, U.S.A.; (3) ITG Brands LLC, Greensboro, NC, U.S.A.
STPOST	64	Poster	You can't analyze for everything, or can you?	LAUTERBACH J.H.	Lauterbach & Associates, LLC, Macon, GA, U.S.A.

Name underlined = Presenter when the main author (listed first) is not presenting the paper