

2019 CORESTA AGRO-PHYTO CONFERENCE (AP2019)

Victoria Falls, Zimbabwe, 13-17 October

AGRONOMY & LEAF INTEGRITY and PHYTOPATHOLOGY & GENETICS

	Sat 12 Oct	Sunday 13 Oct	Monday 14 Oct	Tuesday 15 Oct	Wednesday 16 Oct	Thursday 17 Oct	
	SGTF	SGTF	Agro/Phyto	Agro/Phyto	Agro/Phyto	Agro/Phyto	
			Chair: VIZEE / SCOTT	Chair: SCOTT	Chair: DORLHAC	Chair: MORNET	
			OPENING SESSION	PRODUCTION	GENETICS 2	BIO & NUTRITION	
8:30 - 8:50			Welcome	AP21 - VANN	AP34 - MAGAMA	AP40 - MALPICA	8:30 - 8:50
8:50 - 9:10			AP01 - GARWE	AP22 - SUCHOFF	AP35 - ADAMS	AP41 - MAHERE	8:50 - 9:10
9:10 - 9:30			AP02 - MATIBIRI	AP23 - RICHMOND	AP36 - SEO Hyo-Seok	AP42 - GAI Xiaotong	9:10 - 9:30
9:30 - 9:50			AP03 - AMBROSE	AP24 - BARKER	AP37 - GOEPFERT	AP43 - KANE	9:30 - 9:50
9:50 - 10:10			AP04 - COLARD	AP25 - VANN	AP38 - CAO Jianmin	AP44 - WIE Jianyu	9:50 - 10:10
10:10 - 10:30			AP05 - MILLS	AP26 - VANN	GMO SG Report	BIO SG Report	10:10 - 10:30
10:30 - 10:50			COFFEE	COFFEE	COFFEE	COFFEE	10:30 - 10:50
			Chair: JACKSON	Chair: DIMBI	Chair: ZHANG	Chair: MIYOSHI	
			SUSTAINABILITY & ENVIRONMENT	POST-HARVEST	DISEASES	ANALYSIS & DETECTION	
10:50 - 11:10			AP06 - BGANYA	AP27 - MUNANGA	AP39 - MUFUNDA	AP45 - MUSUNA-GARWE	10:50 - 11:10
11:10 - 11:30			AP07 - REED	AP28 - STOKES	XDES SG / IPM SG Reports	AA SG Report	11:10 - 11:30
11:30 - 11:50			AP08 - MARUNDA	AP29 - HE Wie	POSTERS	AP47 - BARGIACCHI	11:30 - 11:50
11:50 - 12:10			AP09 - MUDYAWABIKWA	AP30 - FUKAZAWA		AP48 - MAWIRE	11:50 - 12:10
12:10 - 12:30			AP10 - CHEN Zhenguoguo	PSMST SG Report			12:10 - 12:30
12:30 - 14:00			LUNCH	LUNCH		LUNCH	LUNCH
			Chair: XU	Chair: FISHER	EXCURSION	Chair: LUSSO	
			GENETICS 1	VARIETIES		LOW NICOTINE	
14:00 - 14:20			AP11 - HAMANO	AP31 - RUZANE		AP49 - ADAMS	14:00 - 14:20
14:20 - 14:40			AP12 - SHEN Yanxin	AP32 - SHAMUDZARIRA		AP50 - FISHER A.	14:20 - 14:40
14:40 - 15:00			AP13 - JULIO	ACAC Report		AP51 - KUDITHIPUDI	14:40 - 15:00
15:00 - 15:20			AP14 - KOGA	RFT SG Report		AP52 - SHI Hongzhi	15:00 - 15:20
15:20 - 15:40			TBO TF / TSNA SG Reports	AP33 - MUKOYI		TAG TF Report	15:20 - 15:40
15:40 - 16:00			TEA	TEA		TEA	15:40 - 16:00
			Chair: FISHER	Chair: VIZEE			
			NUTRITION	SUSTAINABILITY FORUM			
16:00 - 16:20			AP15 - CHINAMO	Topic #1 - Supply Chain Audit		16:00 - 16:20	
16:20 - 16:40			AP16 - MANNING	Topic #2 - Water Scarcity		16:20 - 16:40	
16:40 - 17:00			AP17 - DAI Kuai			16:40 - 17:00	
17:00 - 17:20			AP18 - SUCHOFF			17:00 - 17:20	
17:20 - 17:40			AP19 - HU Bin			17:20 - 17:40	
17:40 - 18:00			AP20 - VANN			17:40 - 18:00	
18:00 - 18:20							
		Welcome Reception				Closing Evening	

Abbreviations

GENERAL

SG Sub-Group
TF Task Force

AGRONOMY & LEAF INTEGRITY STUDY GROUP

AA SG Agrochemical Analysis
GMO SG Proficiency Testing for Detection of Transgenic Tobacco
LNTP TF Collaborative Study of Low Nicotine Tobacco Agronomic Production Practices
PSMST SG Pest and Sanitation Management in Stored Tobacco
RFT SG Agrochemical Residue Field Trials
TSNA SG TSNA in Air-cured and Fire-cured Tobacco

PHYTOPATHOLOGY & GENETICS STUDY GROUP

BIO SG Efficacy of Biological and Eco-Friendly CPAs
BKS SG Collaborative Study Black Shank
IPM SG Integrated Pest Management
TAG TF Tobacco Alkaloid Genetics
TBO TF Tobacco Biotechnology and Omics
XDES SG Extended Diagnostic Expert System
OTHER
ACAC Agrochemical Advisory Committee



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LIST OF ORAL / POSTER PRESENTATIONS

03/09/2019

Group	Num	ID	Session	Abstract Title	Authors	Source
AP	01	1586	Opening	The history of tobacco production in Zimbabwe - a synopsis	GARWE D.; DIMBI S.	Tobacco Research Board, Harare, Zimbabwe
AP	02	1551	Opening	Tobacco production and marketing trends in Zimbabwe in the last two decades	MATIBIRI A.E.	Tobacco Industry and Marketing Board, Harare, Zimbabwe
AP	03	1633	Opening	Zimbabwe's tobacco industry – role of the tobacco farmer	AMBROSE R.	Zimbabwe Tobacco Association, Harare, Zimbabwe
AP	04	1433	Opening	UN 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
AP	05	1474	Opening	Afforestation: toward sustainable tobacco production in Zimbabwe	MILLS A.	The Sustainable Afforestation Association of Zimbabwe, Southerton, Harare, Zimbabwe
AP	06	1625	Sustainability & Environment	How the tobacco merchants in Zimbabwe address sustainability in leaf production	BGANYA K.A.	Zimbabwe Leaf Tobacco, Harare, Zimbabwe
AP	07	1585	Sustainability & Environment	Evaluation of a biodegradable plastic greenhouse float tray	REED T.D.	Virginia Tech, Southern Piedmont Center, Blackstone, VA, U.S.A.
AP	08	1601	Sustainability & Environment	Isolation, screening and characterization of plant growth promoting rhizobacteria isolates for their ability to induce drought tolerance on tobacco (<i>Nicotiana tabaci</i>)	MARUNDA M.(1); CHINHEYA C.C.(1); MUZHINJI N.(1); MUFUNDA F.(1); MUDYAWABIKWA B.(1); BANANA S.(1); MAHOHOMA W.(2); MADANZI T.(2)	(1) Tobacco Research Board, Kutsaga, Harare, Zimbabwe; (2) Faculty of Natural Resources Management and Agriculture, Midlands State University, Gweru, Zimbabwe
AP	09	1430	Sustainability & Environment	Extracting value from tobacco waste through activating the carbon in tobacco stalks	MUDYAWABIKWA B.; MUSUNA-GARWE C.C.	Tobacco Research Board, Harare, Zimbabwe
AP	10	1533	Sustainability & Environment	Study on pollution control and thermal efficiency optimization of tobacco bulk curing barn	CHEN Zhenguo (1); YANG Yang (2); SUN Guangwei(1); YANG Lailin(3); WEI Kesu(4); ZOU Shuoye(5); QIAO Yu(6); WANG Bo(6); HUANG Jingchun(6)	(1) Tobacco Research Institute of Hubei Province, Wuhan, Hubei Province, P.R. China; (2) Enshi Tobacco Company, Enshi City, Hubei Province, P.R. China; (3) Sanming Tobacco Company, Sanming City, Fujian Province, P.R. China; (4) Tobacco Research Institute of Guizhou Province, Guiyang City, Guizhou Province, P.R. China; (5) Henan Tobacco Company, Zhengzhou, Henan Province, P.R. China; (6) Huazhong University of Science and Technology, Wuhan, Hubei Province, P.R. China
AP	11	1464	Genetics 1	Tobacco mutants with fewer suckers	HAMANO K.; SATO S.; ARAI M.; NOMURA A.; TSUKAHARA M.; SUZUKI S.	Japan Tobacco Inc., Leaf Tobacco Research Center, Oyama, Tochigi, Japan
AP	12	1608	Genetics 1	Molecular mechanism involved in maleic hydrazide-mediated sucker control	SHEN Y.; PAYAWULA R.; GOVINDURAJULU R.; KUDITHIPUDI C.; XU D.	Altria Client Services LLC, Product Design & Maintenance, Richmond, VA, U.S.A.
AP	13	1626	Genetics 1	Development of codominant markers related to powdery mildew resistance from <i>N. tomentosiformis</i> origin	JULIO E.(1); MALPICA A.(2); COTUCHEAU J.(1); BACHET S.(2); VOLPATTI R.(1); DECORPS C.(1); DORLHAC DE BORNE F.(1)	(1) SEITA - Imperial Brands, Leaf Research, Bergerac, France; (2) Bergerac Seeds and Breeding, Bergerac, France
AP	14	1503	Genetics 1	Field tests of loss-of-function tobacco lines of eIF(iso)4E for resistance to tobacco bushy top disease and agronomic traits	KOGA K.(1); SHINJO A.(1); MAINJENI C.E.D.(2); MSANGOSOKO K.R.(2); UDAGAWA H.(1); TAKAKURA Y.(1)	(1) Japan Tobacco Inc., Leaf Tobacco Research Center, Oyama, Tochigi, Japan; (2) Agricultural Research and Extension Trust, Department of Research and Technical Services, Lilongwe, Malawi
AP	15	1422	Nutrition	Augmenting available soil nutrients through the use of growth promoting microbes in tobacco production	CHINAMO D.	Tobacco Research Board, Harare, Zimbabwe
AP	16	1462	Nutrition	Greenhouse and field applications of various organic nitrogen fertilizer sources	MANNING N.J.; VANN M.C.; SUCHOFF D.H.; WOODLEY A.; MCGINNIS M.	North Carolina State University, Department of Crop & Soil Sciences, Raleigh, NC, U.S.A.
AP	17	1534	Nutrition	Variation of soil potassium quantity-intensity relationship in flue-cured tobacco-rape rotation system under long-term located potassium application	DAI Kuai(1); LI Jiangzhou(1); ZHANG Limeng(1); JI Sigui(1); LONG Huaiyu(2); XU Zhaoli(3); DUAN Yuqi(3); YANG Yuhong(3); LU Xiuping(3); JIAO Yongge(1); BU Lingduo(1)	(1) Yunnan Tobacco Company Yuxi Branch/Biological Control of Tobacco Diseases and Insect Pests Engineering Research Center of China, Yuxi, P.R. China; (2) Institute of Agriculture Resources and Regional Planning, Chinese Academy of Agricultural Sciences, Beijing, P.R. China (3) Yunnan Tobacco Agriculture Research Institute, Kunming 650031, P.R. China
AP	18	1463	Nutrition	Establishing application protocols for poultry litter and feather meal in organic burley tobacco production	SUCHOFF D.H.; VANN M.C.; FISHER L.R.; WHITLEY D.S.	North Carolina State University, Department of Crop & Soil Sciences, Raleigh, NC, U.S.A.
AP	19	1537	Nutrition	Effects of rotation and organic fertilizers on soil water-stable aggregate stability and their associated carbon and nitrogen in flue-cured tobacco production	HU Binbin; REN Ke; CHEN Yanjie; GONGJIANG Shiqi; ZOU Congming; CHEN Yi; ZHAO Gaokun; HUANG Wei; XU Zhaoli; JIN Yan	Yunnan Academy of Tobacco Agricultural Sciences of CNTC, Kunming City, Yunnan Province, P.R. China



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Group	Num	ID	Session	Abstract Title	Authors	Source
AP	20	1576	Nutrition	Implications of chloride application rate and nitrogen fertilizer source to flue-cured tobacco	VANN M.C.(1); HARDY D.H.(2); FISHER L.R.(1)	(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	21	1597	Production	Evaluations of rimsulfuron application timing and rate in flue-cured tobacco	VANN M.C.; INMAN M.D.	North Carolina State University, Department of Crop & Soil Sciences, Raleigh, NC, U.S.A.
AP	22	1573	Production	Organic suckericides: screening various compounds for efficacy and injury potential	SUCHOFF D.H.; VANN M.C.; SHORT M.M.	North Carolina State University, Department of Crop & Soil Sciences, Raleigh, NC, U.S.A.
AP	23	1609	Production	Evaluation of contact and local-systemic sucker control products on flue-cured tobacco in Canada	RICHMOND M.D.; SHEARER A.D.; ELLENBERGER E.; SAUDE C.; MISHRA S.; AMANKWA G.A.	Canadian Tobacco Research Foundation, Tillsonburg, Ontario, Canada
AP	24	1632	Production	Effects of early removal of lower leaf on ripening patterns, yield and quality in tobacco	DUVENAGE I.(1); BARKER K.(2); COOKE K.(3)	(1) Contraf-Nicotex-Tobacco GmbH, Harare, Zimbabwe; (2) Curverid Tobacco (Pvt) Ltd, Harare, Zimbabwe; (3) Tobacco Grower, Beatrice Farming Area, Zimbabwe
AP	25	1577	Production	Lower leaf removal and nitrogen application programs for flue-cured tobacco production	VANN M.C.(1); FINCH C.E.(1); FISHER L.R.(1); WELLS R.(1); BROWN A.B.(2)	(1) North Carolina State University, Department of Crop & Soil Sciences, Raleigh, NC, U.S.A.; (2) North Carolina State University, Department of Agricultural & Economic Resources, Raleigh, NC, U.S.A.
AP	26	1591	Production	Cured leaf residues following applications of fluopicolide, indoxacarb, and oxathiapiprolin to flue-cured tobacco	VANN M.C.; INMAN M.D.; WHITLEY D.S.	North Carolina State University, Department of Crop & Soil Sciences, Raleigh, NC, U.S.A.
AP	27	1424	Post-Harvest	A low cost, efficient, multi-fuel heat exchange system availed to Zimbabwean small holder growers	MUNANGA W.; DIMBI S.; MUZAVAZI S.	Tobacco Research Board, Harare, Zimbabwe
AP	28	1634	Post-Harvest	Latest innovations in improving efficiencies in tobacco curing in Zimbabwe: the Super Eco Curer	STOKES R.	ROC Systems, Chinhoyi, Zimbabwe
AP	29	1536	Post-Harvest	Construction of green flue-cured tobacco strips aging technology based on four-stage controlled atmosphere method	HE Wei(1); MU Wenjun(2); FAN Jianqiang(1); BAO Kexiang(1); CHEN Yiqiang(1); LIN Jian(1); QI Lingfeng(1); ZHANG Ruiqiang(1); ZHANG Zengji(1); GUO Jianhua(2); SONG Jizhen(2); WANG Chunlu(3); FAN Tiantian(3)	(1) Fujian Tobacco Industry Co., Ltd., Xiamen, P.R. China; (2) Key Laboratory of Eco-environment and Leaf Tobacco Quality, Zhengzhou Tobacco Research Institute of CNTC, Zhengzhou, P.R. China; (3) Beijing Yingfeng Litai Technology & Trade Co., Ltd., Beijing, P.R. China
AP	30	1466	Post-Harvest	Lethal effect of low pressure on the cigarette beetle	FUKAZAWA N.; TAKAHASHI R.; IMAI T.	Japan Tobacco Inc., Leaf Tobacco Research Center, Oyama, Tochigi, Japan
AP	31	1421	Varieties	Agronomic performance of some exotic tobacco cultivars under the Zimbabwean environmental conditions	RUZANE R.T.; DIMBI S.; MAGAMA F.	Tobacco Research Board, Harare, Zimbabwe
AP	32	1418	Varieties	Development of short season tobacco varieties for marginal tobacco growing regions of Zimbabwe	SHAMUDZARIRA M.; DIMBI S.; MAGAMA F.	Tobacco Research Board, Harare, Zimbabwe
AP	33	1419	Varieties	Cigar wrapper production in Zimbabwe: an overview of past, present and future prospects	MUKOYI F.(1); MAGAMA F.(1); EDMONDSON A.(2); GUILD L.(3); GARWE D.(1)	(1) Tobacco Research Board, Harare, Zimbabwe; (2) Von Eicken, Lübeck, Germany; (3) Mapeto Farm, Burma Valley, Zimbabwe
AP	34	1420	Genetics 2	Alkaloid content of wide tobacco germplasm: The search for high and low nicotine content accumulating genotypes	MAGAMA F.; SHAMUDZARIRA M.; GARWE D.	Tobacco Research Board, Harare, Zimbabwe
AP	35	1477	Genetics 2	Genetic mapping and characterization of the Pale Yellow locus responsible for accelerated senescence in dark tobacco	PRAMOD S.; ADAMS A.; DAVIS G.; LUSSO M.; FREDERICK J.; XU D.	Altria Client Services LLC, Product Design & Maintenance, Richmond, VA, U.S.A.
AP	36	1547	Genetics 2	Mutations of phytochelatin synthase (PCS) genes by CRISPR/Cas9 are reduced accumulation of cadmium in tobacco leaves	SEO H.S.; LEE Y.G.; KIM K.C.; OH K.H.; JEON E.Y.; NA W.H.; LEE J.H.	KT&G Research Institute, Daejeon, South Korea
AP	37	1610	Genetics 2	Metabolic and transcriptomic shifts during tobacco leaf post-harvest senescence	BOVET L.; HILFIKER A.; BATTEY J.; SIERRA N.; GOEPFERT S.	PMI R&D, Philip Morris Products S.A., Neuchâtel, Switzerland
AP	38	1532	Genetics 2	Metabolic profiling of mutant tobaccos with distinctive aroma based on gas chromatography-mass spectrometry and multivariate analysis	CAO Jianmin; XU Xiaoling; LIU Guanshan; CAO Pengyun; LIN Yingnan	Tobacco Research Institute of Chinese Academy of Agricultural Sciences, Qingdao, P.R. China; Graduate School of CAAS, Beijing 100081, P.R. China
AP	39	1447	Diseases	First report of a pepper potato virus Y isolate affecting tobacco in Zimbabwe	MUFUNDA F.; CHINHEYA C.C.; MAGAMA F.; GARWE D.; DIMBI S.	Tobacco Research Board, Kutsaga, Harare, Zimbabwe
AP	40	1602	Bio & Nutrition	Progress in breeding and biocontrol dual approaches for tobacco broomrapes management	MALPICA A.(1); GUINCHARD L.(2); BACHET S.(1); VACHER C.(3); GATARD L.(4); REIBEL C.(2); GAUTHERON N.(2); EDELHERMANN V.(2); STEINBERG C.(2); GIBOT LECLERC S.(2)	(1) Bergerac Seed & Breeding, Bergerac, France; (2) Agroécologie (AgroSup Dijon, INRA, Univ. Bourgogne Franche-Comté), Dijon, France; (3) Arvalis, Institut du Végétal, Bergerac, France; (4) Coopérative CT2F, Maison de l'Agriculture, Schiltigheim, France



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Group	Num	ID	Session	Abstract Title	Authors	Source
AP	41	1460	Bio & Nutrition	Evaluation of the bio-efficacy of the biological control agents, Trichoderma, Paecilomyces, Mycorrhiza and Bacillus species against root-knot nematodes	MAHERE T.S.; CHINHEYA C.C.; DIMBI S.	Tobacco Research Board, Kutsaga, Harare, Zimbabwe
AP	42	1535	Bio & Nutrition	Study on control effect of preceding crops on tobacco black shank	GAI Xiaotong; XIA Zhenyuan; LU Canhua; HUANG Changjun; YUAN Cheng; FANG Dunhuang	Yunnan Academy of Tobacco Agricultural Sciences of CNTC, Kunming City, Yunnan Province, P.R. China
AP	43	1478	Bio & Nutrition	Tobacco crop protection against blue mold: What strategy with organic and biocontrol products?	KANE K.(1); LEROY J-L.(1); VALADE P.(1); GOUDOUNECHE J-L.(1); GUERY B.(2); BRAY O.(3); MECHEMIN V.(3); TARASCOU M.(3); SALGADO J.(3)	(1) Arvalis Institut du Végétal, Bergerac, France; (2) Service Régional de l'Alimentation (SRAL) Aquitaine - Direction Générale de l'Alimentation (DGAL), France; (3) Fédération Régionale de Défense contre les Organismes Nuisibles (FREDON) Aquitaine, Villenave-d'Ornon, France
AP	44	1540	Bio & Nutrition	Effects of biochar and seaweed fertilizer on tobacco growth, soil properties and bacterial wilt occurrence	ZHANG Guangyu(1); YOU Xiangwei(1); LIU Yuande(2); CHU Depeng(1); NIU Jijun(2); GAO Qiang(2); CHEN Qianru(1); LI Yiqiang(1); <u>WEI Jianyu</u> (3)	(1) Tobacco Research Institute of CAAS, Qingdao, P.R. China; (2) Shandong Linyi Tobacco Company Ltd., Linyi, Shandong, P.R. China; (3) China Tobacco Guangxi Industrial Co., Ltd., Nanning, P.R. China
AP	45	1431	Analysis & Detection	The role of laboratory Quality Management Systems in ensuring compliance in the tobacco industry: the case of TRB ACS	MUSUNA-GARWE C.C.; MUDYAWABIKWA B.	Tobacco Research Board, Harare, Zimbabwe
AP	46	1495	Analysis & Detection	Automatic and rapid classification of tobacco leaves using a hand-held near-infrared spectrometer on-the-spot	LIU Weijuan; <u>ZHANG Jiangqiang</u> ; LI Changyu	Yunnan Reascend Tobacco Technology (Group) Co., Ltd, Kunming, P.R. China
AP	47	1520	Analysis & Detection	In field photonic sensing of tobacco leaves for the non-destructive assessment of nitrogen content and quality prediction	TUCCIO L.(1); <u>BARGIACCHI E.</u> (2); MILLI G.(3); MIELE S.(2); AGATI G.(1)	(1) CNR-IFAC, Sesto Fiorentino, FI, Italy; (2) Consortium INSTM, Firenze, Italy; (3) Fattoria Autonoma Tabacchi (FAT) & ITT, Città di Castello, PG, Italy
AP	48	1473	Analysis & Detection	A comparison of methods for handling data that is Missing Completely at Random in crop experiments at Kutsaga	MAWIRE B.; MAHERE T.S.; MUTAMBWA M.	Tobacco Research Board, Harare, Zimbabwe
AP	49	1476	Low Nicotine	Nicotine variability of low nicotine cultivars versus normal nicotine cultivars	LION K.; <u>ADAMS A.</u> ; MORRIS W.; BROWN E.; IRVING B.; LUSSO M.; XU D.	Altria Client Services LLC, Product Design & Maintenance, Richmond, VA, U.S.A.
AP	50	1623	Low Nicotine	Reducing nicotine in burley tobacco by combining low alkaloid varieties and agronomic practices	FISHER A.M.; FISHER C.R.; JI H.	University of Kentucky, Lexington, KY, U.S.A.
AP	51	1451	Low Nicotine	Genetic and biochemical analysis of very low nicotine tobacco leaf	KUDITHIPUDI C.(1); GOVINDARAJULU R.(2); BHUIYAN N.(2); SHEN Y.(1); XU D.(1)	(1) Altria Client Services LLC, VA 23219, U.S.A.; (2) Eurofins Lancaster Laboratories, c/o Altria Client Services LLC, Richmond, VA, U.S.A.
AP	52	1434	Low Nicotine	Changes in TSNA contents and sensory quality of ultra-low nicotine tobacco leaves produced by grafting with eggplant	REN Mengjuan(1); <u>SHI Hongzhi</u> (1); LI Hongliang(2); ZHOU Jun(3); TANG Chaoqi(3); BAI Ruoshi(3); ZHANG Mengyue(1)	(1) College of Tobacco Science of Henan Agricultural University / Tobacco Cultivation Key Laboratory of China Tobacco / Tobacco Harm Reduction Research Center of HAU, Zhengzhou, P.R. China; (2) Xuchang Tobacco Company of Henan, P.R. China; (3) Shanghai Tobacco (Group) Co., Shanghai, P.R. China
APPOST	01	1427	Poster	The effect of Mycorrhiza enriched biofertiliser on tobacco growth and yield	CHIBUDU C.; MAVUKA R.	Tobacco Research Board, Harare, Zimbabwe
APPOST	02	1435	Poster	Effects of spraying exogenous glycerol and molybdate on nitrate accumulation in pot-grown burley tobacco leaves	FENG Yuqing(1); SHI Hongzhi(1); LI Yafei(1,2); ZHOU Jun(3)	(1) College of Tobacco Science of Henan Agricultural University, Tobacco Harm Reduction Research Center, Zhengzhou, P.R. China; (2) Henan Institute of Economics and Trade, Zhengzhou, P.R. China; (3) Beijing Cigarette Factory, Shanghai Tobacco Group Co., Ltd., Beijing, P.R. China
APPOST	03	1436	Poster	Effect of delaying harvest on tobacco quality of upper six leaves and climatic requirement in central Henan of China	GAO Zhenzhen(1); YANG Mingkun(1); LIU Kouzhu(1); LI Jianhua(2); LI Hongliang(2); ZHANG Bingzhuo(1); <u>SHI Hongzhi</u> (1)	(1) College of Tobacco Science of Henan Agricultural University, Tobacco Cultivation Key Laboratory of China Tobacco, Zhengzhou, P.R. China; (2) Xuchang Tobacco Company of Henan Provincial, Xuchang, Henan, P.R. China
APPOST	04	1449	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
APPOST	05	1465	Poster	Influence of disease resistance on the yield and quality in burley tobacco	NAKAMURA T.; TAKEMATSU T.; IWAI Y.	Japan Tobacco Inc., Leaf Tobacco Research Center, Oyama, Tochigi, Japan



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APPOST	06	<u>1538</u>	Poster	Physiological, transcriptomic and secondary metabolic responses of tobacco seedlings to well-cellar style transplanting	LIN Yechun; ZHAO Huina; CAI Kai; GAO Weichang; CHEN Wei; MO Jingjing; MA Yunfei; PAN Wenjie	Upland Flue-cured Tobacco Quality & Ecology Key Laboratory of China Tobacco, Guizhou Academy of Tobacco Science, Guiyang, P.R. China
APPOST	07	<u>1539</u>	Poster	Effects of wheat straw and biochar addition on physiochemical properties and organic carbon fractions in flue-cured tobacco planting soil	WANG Yi; ZHANG Junqing; KUANG Shuai; GUAN Ensen; ZHUO Qicui; SONG Xiaopei; LU Weilong; WANG Dahai; LIU Yuedong; ZHANG Jiguang	Weifang Tobacco Co., Ltd of Shandong Province, Weifang, P.R. China; Ministry of Agriculture, Tobacco Research Institute of Chinese Academy of Agriculture Sciences, Qingdao, P.R. China
APPOST	08	<u>1541</u>	Poster	Characterization and genetic mapping of a novel premature leaf senescence mutant yellow leaf 1 in common tobacco (<i>Nicotiana tabacum</i> L.)	GAO Xiaoming; WU Xinru; SUN Yuhe; LIU Guanshan; ZHANG Zengling; CHAO Jiangtao; LI Zhiyuan; GUO Yongfeng	Tobacco Research Institute, Chinese Academy of Agricultural Sciences, Qingdao, P.R. China
APPOST	09	<u>1542</u>	Poster	Estimating leaf chlorophyll content in tobacco based on various canopy hyperspectral parameters	GUO Ting; LI Wen; YU Jinlong; WU Wenxin; GAO Zhiqiang; LI Wujin; DENG Xiaoqiang; LI Hongguang	Chenzhou Tobacco Company of CNTC, Chenzhou City, Hunan Province, P.R. China
APPOST	10	<u>1543</u>	Poster	The influence of sodium carbonate buffer on TSNA accumulation and leaf quality during tobacco storage	LIU Xingyu(1); LIU Deshui(1); MA Li(1); MA Yanjun(1); YANG Zhendong(1); ZHANG Jie(1); LIN Lin(2); BAI Ruoshi(1); ZHOU Jun(1)	(1) Technology Center, Shanghai Tobacco Co., Ltd., Beijing, P.R. China; (2) Beijing Tobacco Quality Supervision and Testing Station, Beijing, P.R. China
APPOST	11	<u>1544</u>	Poster	Effect and mechanism of controlling tobacco weather fleck by <i>Bacillus velezensis</i> GJ11	WANG Rui(1); HUANG Yong(1); QI Gaofu(2)	(1) Enshi Tobacco Company of Hubei Province, Enshi, Hubei, P.R. China; (2) College of Life Science and Technology, Huazhong Agricultural University, Wuhan, P.R. China
APPOST	12	<u>1545</u>	Poster	Influences of PGPR inoculum combined with the reduction application of chemical fertilizer on the community structure of nosZ denitrifying bacteria in flue-cured tobacco soils	YU Wei; ZHANG Zongjin; GU Yunfu; CHEN Qiang; ZHANG Yingjie; YAN Fangfang	Panzhuhua City Company of Sichuan Tobacco Company, Panzhihua City, P.R. China
APPOST	13	<u>1584</u>	Poster	Agronomic and qualitative performance of some experimental burley hybrids in Malawi	CHAMANGO A.M.Z.; SIBANDE L.A.G.O.; MATEWELE M.	Agricultural Research and Extension Trust (ARET), Lilongwe, Malawi
APPOST	14	<u>1607</u>	Poster	Forestry sustainability in the tobacco sector in Malawi: a community concern requiring community approaches	OFESI H.K.T.; LIVIMBO S.S.	Agricultural Research and Extension Trust (ARET), Lilongwe, Malawi
APPOST	15	<u>1627</u>	Poster	Analysis of mainstream cigarette smoke constituents prioritized by the World Health Organization in a core collection of tobacco accessions: variability and correlations	JULIO E.(1); VERRON T.(2); DORLHAC DE BORNE F.(1); CAHOURS X.(2)	(1) SEITA - Imperial Brands, Leaf Research, Bergerac, France; (2) SEITA - Imperial Brands, Scientific Research, Paris, France

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