

Updated
17/10/2017

2017 CORESTA Joint Study Groups Meeting

Santa Cruz do Sul, Brazil, 22-26 October

AGRONOMY & LEAF INTEGRITY and PHYTOPATHOLOGY & GENETICS

	Sat 21 Oct	Sun 22 Oct	Monday 23 Oct	Tuesday 24 Oct	Wednesday 25 Oct	Thursday 26 Oct
	SGTF	SGTF	Agro/Phyto	Agro/Phyto	Agro/Phyto	Agro/Phyto
			Chair: SCOTT	Chair: DIMBI	Chair: JACKSON	Chair: FISHER
			OPENING	PRODUCTION PRACTICES 1	WORKSHOP - SUSTAINABLE TOB. PROD. (STP)	BREEDING
8:30 - 8:50				AP14 - RICHMOND	APW01 - YIEND	AP38 - OLIVEIRA
8:50 - 9:10			Opening Presentation 01 - SCHÜNKE	AP15 - MTONGA	APW02 - SCOTT	AP39 - BERTRAND
9:10 - 9:30				AP16 - MENEZES	APW03 - SCHÜNKE	AP40 - DORLHAC
9:30 - 9:50			Opening Presentation 02 - Brazil Agriculture Ministry	AP17 - KOGA	APW04 - NDLELA	AP41 - MARTINEZ-OCHOA
9:50 - 10:10				AP18 - FINCH	ACAC Report	AP42 - MALPICA
10:10 - 10:30			COFFEE	COFFEE	Discussion	COFFEE
			Chair: JACKSON	Chair: SCOTT		Chair: LUSSO
			GAP	PRODUCTION PRACTICES 2		CPAs
10:30 - 10:50			IG01 - LUSSO	AP19 - VANN	COFFEE (10:50 - 11:10)	AP43 - BAILEY
					Chair: BERGER / VIRUS 1	
10:50 - 11:10			AP01 - LI Xiang	AP20 - INMAN	AP35 - BERTRAND	AP44 - REED
11:10 - 11:30			AP02 - SEHN	AP21 - MTONGA	AP36 - ZHOU Wenbing	AP45 - OYAMA
11:30 - 11:50			AP03 - BURLA	AP22 - BERGER	AP37 - SHINJO	AP46 - DECLERCQ
11:50 - 12:10			AP04 - ROESCH	AP23 - ESPINDULA	POSTERS (12:10-13:00)	AP47 - BILLENKAMP
12:10 - 12:30			SG RFT Report / SG AA Report	TF STDS Report / TF PMO Report		AP48 - BRONDANI DA ROCHA
			LUNCH	Video - EVERGREEN Project		LUNCH
12:30 - 13:45				LUNCH		
			Chair: XU	Chair: BERGER		Chair: MORNET
			TSNA	MOLECULAR BREEDING		BIO-CONTROL
13:45 - 14:05			AP05 - SHI Hongzhi	AP25 - BROMLEY		AP49 - KOHLER
14:05 - 14:25			AP06 - KEENEY	AP26 - KUDITHIPUDI		SG PSMST Report
14:25 - 14:45			AP07 - LUSSO	AP27 - FERREIRA		AP50 - MIHAYLOVA-KROUMOVA
14:45 - 15:05			AP08 - LUSSO	AP28 - LEWIS		AP51 - WANG Rui
15:05 - 15:25			AP09 - KINNEY	AP29 - HU Risheng		AP52 - MANI
15:25 - 15:45			SG TSNA Report / TF TAG Report	AP30 - GILLES		SG XDES Report / SG BIO Report
15:45 - 16:05			TEA	TEA	EXCURSION (13:45-18:30)	TEA
			Chair: LUSSO	Chair: GUO		Chair: FISHER
			BIOTECH	NUTRIENTS		VIRUS 2
16:05 - 16:25			AP10 - SHEN Y.	AP31 - COELHO		AP53 - MO Xiaohan
16:25 - 16:45			AP11 - JIN Jingjing	AP32 - MOORE		AP54 - SHEN Lili
16:45 - 17:05			AP12 - KUDITHIPUDI	AP33 - PACE		AP55 - JULIO
17:05 - 17:25			AP13 - ZHAO Jiehong	AP34 - COELHO		AP56 - ZHANG Yu
17:25 - 17:45			SG GMO Report / TF TBO Report	SG IPM Report / TF APIC Report		SG BKS Report
		19:30 ~ 22:30		19:30 ~ 23:00		19:30 ~ 23:30
		Welcome Reception	Free Evening	Gaúcho's Dinner	Free Evening	Gala Dinner

Abbreviations

GENERAL

SG Sub-Group
TF Task Force

AGRONOMY & LEAF INTEGRITY STUDY GROUP

AA SG Agrochemical Analysis (formerly in ProductTech. Study Grp)
GMO SG Proficiency Testing for Detection of Transgenic Tobacco
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

APIC TF Agro-Phyto Information Collection
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
VIR SG Virus Diseases
XDES SG Extended Diagnostic Expert System

OTHER

ACAC Agrochemical Advisory Committee
STDS TF CORESTA Standards
PMO TF Project Management Office
WEB TF CORESTA Website

STP Sustainable Tobacco Production



2017 CORESTA AGRO-PHYTO JOINT STUDY GROUPS MEETING - Santa Cruz do Sul, Brazil - 22-26 October 2017

LIST OF ORAL / POSTER PRESENTATIONS

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Group	Num	ID	Session	Abstract Title	Authors	Source
OPENING		1068	Opening	Brazilian tobacco production	SCHÜNKE I.	SindiTabaco - Interstate Tobacco Industry Union, Santa Cruz do Sul, RS, Brazil
IG	01	1097	GAP	Comparison of intra-crop year variability in NNN in tobacco and NNN levels in smokeless tobacco products	MORTON M.J.; PHILLIPS D.J.; JORDAN J.L.; OLDHAM M.J.; LION III K.E.; LUSSO M.F.; FRANKE J.E.; STRICKLAND J.A.	Altria Client Services LLC, Richmond, VA, U.S.A.
AP	01	943	GAP	Investigation and research of microbial information in tobacco-planted soil from different ecological regions in Guizhou province	LI Xiang; LIU Yanxia; SHI Junxiang; ZHANG Heng; CAI Liuti; ZOU Yan	Guizhou Academy of Tobacco Science of CNTC, Guiyang, Guizhou, P.R. China
AP	02	1032	GAP	Reverse logistics - receiving program for empty containers of pesticides from tobacco growers in southern Brazil	SEHN C.A.	SindiTabaco - Interstate Tobacco Industry Union, Santa Cruz do Sul, RS, Brazil
AP	03	978	GAP	Project SOSTAB: innovative traceability on the tobacco production chain in Italy	BURLA G.(1); MILLI G.(2)	(1) TTI - Italian Consortium of Tobacco Processing, Città di Castello, Italy; (2) Fattoria Autonoma Tabacchi (FAT), I-06012 Città di Castello, Italy
AP	04	1062	GAP	Contributions to the study of gall wasp occurrence in Eucalyptus woodlots in southern Brazil	ROESCH F.(1); FEUERBORN M.(1); KOEHLER A.(2); RAUBER M.(2); FARIAS J.(3); WELTER C.A.(3); TEIXEIRA D.(3)	(1) Japan Tobacco International (JTI), Santa Cruz do Sul, RS, Brazil; (2) Universidade de Santa Cruz do Sul (UNISC), Laboratory of Entomology, Santa Cruz do Sul, RS, Brazil; (3) Universidade Federal de Santa Maria (UFSM), Centro de Pesquisas Florestais, Campus Universitário, Santa Maria, RS, Brazil
AP	05	924	TSNA	Effect of storage environment on nitrogen oxides formation in cured tobacco leaves	SHI Hongzhi(1); WANG Jun(1); ZHANG Mengyue(1); YANG Huijuan(1); ZHOU Jun(2); JIN Tong(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	06	1042	TSNA	Dark air-cured and dark fire-cured tobacco TSNA levels in response to potassium source and rate	KEENEY A.B.; BAILEY W.A.	University of Kentucky, Plant Science Building, 1405 Veterans Drive, Lexington, KY, U.S.A.; University of Kentucky Research and Education Center, 1205 Hopkinsville Street, Princeton, KY, U.S.A.
AP	07	1074	TSNA	NNN levels in stable reduced converter (SRC) and low converter (LC) lines cured under conditions that favor NNN formation	LUSSO M.F.; LION K.E.; ADAMS A.; MORRIS W.; WAREK U.; STRICKLAND J.A.	Altria Client Services LLC, Research, Development and Regulatory Affairs, Richmond, VA, U.S.A.
AP	08	1072	TSNA	N-nitrosornicotine reduction in dark tobacco varieties and smokeless product prototypes	LUSSO M.F.; ADAMS A.; LEWIS B.; POYNER T.; LION K.E.; DELOACH L.; DANIELSON T.; FRANKE J.E.; WAREK U.; STRICKLAND J.A.	Altria Client Services LLC, Research, Development and Regulatory Affairs, Richmond, VA, U.S.A.
AP	09	1069	TSNA	The effect of farm vehicle exhaust emissions on TSNA	FISHER C.R.(1); KINNEY J.(1); JACK A.M.(2)	(1) University of Kentucky, Department of Plant and Soils, Lexington, KY, U.S.A.; (2) University of Kentucky, Kentucky Tobacco Research and Development Center, KTRDC Building, Lexington, KY, U.S.A.
AP	10	921	Biotech	Genetic strategies for sucker control and evaluation	SHEN Y.; YANG J.; KUDITHIPUDI C.; XU D.; FREDERICK J.; WAREK U.; STRICKLAND J.A.	Altria Client Services LLC, Research, Development and Regulatory Affairs, Richmond, VA, U.S.A.
AP	11	942	Biotech	Effects of genotype and environment on metabolite profiling of Nicotiana tabacum	JIN Jingjing; LIU Pingping; LU Peng; LI Zefeng; ZHANG Jianfeng; XU Yalong; ZHOU Huina; CAO Peijian	Zhengzhou Tobacco Research Institute of CNTC, China Tobacco Gene Research Center, Zhengzhou 450001, P.R. China
AP	12	976	Biotech	Genetic and biochemical analysis of low alkaloid lines with improved leaf quality	KUDITHIPUDI C.(1); QI D.(1); SHEN Y.(1); PAYYAVULA R.(2); XU D.(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 VA23219, U.S.A.
AP	13	952	Biotech	The inhibitory effects of salicylic acid on the potassium outflow from tobacco	ZHAO Jiehong	Key Laboratory of Molecular Genetics of CNTC, Guizhou Academy of Tobacco Science, Guanshanhu District, Guiyang, Guizhou, P.R. China
AP	14	1070	Production Practices 1	Chemically topping Burley tobacco	RICHMOND M.D.(1); PEARCE R.C.(1); BAILEY W.A.(2)	(1) University of Kentucky, Department of Plant and Soil Sciences, Lexington, KY, U.S.A.; (2) University of Kentucky Research and Education Center, Princeton, KY, U.S.A.
AP	15	920	Production Practices 1	Effect of priming as a practice for improving yield and quality of flue-cured tobacco in Malawi	MTONGA Y.P.; MUMBA J.B.; GOMONDA R.W.J.	Agricultural Research and Extension Trust (ARET), Lilongwe, Malawi
AP	16	1015	Production Practices 1	Impact of removal of the lower stalk leaves, time of topping and leaf number on yield and quality of flue-cured Virginia	MENEZES E.L.; TEIXEIRA D.V.; FRANTZ E.; OLIVEIRA V.; BERETTA O.I.	Alliance One Brasil Exp. de Tabacos Ltda, Passo do Sobrado, RS, Brazil
AP	17	909	Production Practices 1	Effect of bottom leaf removal and fertiliser rates on the yield and quality of flue-cured tobacco in Zimbabwe	KOGA C.; RUKUNI D.	Tobacco Research Board, Harare, Zimbabwe
AP	18	1036	Production Practices 1	The effect of lower leaf removal and nitrogen application to flue-cured tobacco yield, crop throw, and economic return	FINCH C.E.(1); VANN M.C.(1); FISHER L.R.(1); INMAN M.D.(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 & Resource Economics, Raleigh, NC, U.S.A.



2017 CORESTA AGRO-PHYTO JOINT STUDY GROUPS MEETING - Santa Cruz do Sul, Brazil - 22-26 October 2017

LIST OF ORAL / POSTER PRESENTATIONS

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Group	Num	ID	Session	Abstract Title	Authors	Source
AP	19	1039	Production Practices 2	Organic fertilizer programs for tobacco seedling production	VANN M.C.(1); FISHER L.R.(1); SEAGROVES R.(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	20	1038	Production Practices 2	Is float bed aeration beneficial to organic seedling production?	INMAN M.D.(1); VANN M.C.(1); FISHER L.R.(1); SEAGROVES R.(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	21	919	Production Practices 2	Polypot system: a cost saving practice for improved tobacco seedling quality in Malawi	MTONGA Y.P.; MUMBA J.B.; GOMONDA R.W.J.	Agricultural Research and Extension Trust (ARET), Lilongwe, Malawi
AP	22	1131	Production Practices 2	Evaluation of soil solarisation as a tool for Integrated Pest Management (IPM) in small tobacco farms in southern Brazil	BERGER I.J.(1); OLIVEIRA G.H.N.(1); SEHN C.A.(1); SILVA D.J.(1); TEIXEIRA D.V.(1); SARTORI L.(1); SCHMITT M.A.(1); COUGO L.F.(1); FRANCHINI E.(1); CHAVES I.C.P.V.(2); CHAVES L.C.S.V.(2); CARDOZA Y.F.(3); ANDRADE C.C.L.(3); DUARTE V.(3); SANTIN R.C.M.(3)	(1) SindiTabaco - Interstate Tobacco Industry Union, Santa Cruz do Sul, RS, Brazil; (2) SANTAGRO, Santa Cruz Agrícola Comercial Ltda, Santa Cruz do Sul, RS, Brazil; (3) Agronômica - Phytosanitary Laboratory and Consulting, Porto Alegre, RS, Brazil
AP	23	1016	Production Practices 2	Resistance and control of yellowing stunt disease in flue-cured tobacco in southern Brazil	ESPINDULA L.F.; OLIVEIRA E.D.; PANIZ C.; LORENCETTI C.	Alliance One Brasil Exp. de Tabacos Ltda, Vera Cruz, RS, Brazil
AP	24	956	Production Practices 2	New strategies for early detection of blue mould in asymptomatic tobacco: a mixed photobiology and LAMP based approach under preliminary testing at Fattoria Autonoma Tabacchi	MIELE S.(1); BARGIACCHI E.(1); AGATI G.(2); CERBONESCHI M.(3); MILLI G.(4)	(1) Italian Interuniversity Consortium for Science and Technology of Materials (INSTM), Firenze, Italy; (2) CNR IFAC, Sesto Fiorentino, Italy; (3) DISPAA-UniFi, Lab Molecular Plant Pathology, Firenze, Italy; (4) Fattoria Autonoma Tabacchi (FAT) & ITT, I-06012 Città di Castello, Italy
Video			Production Practices 2	Environmentally friendly biomolecules from agricultural wastes as substitutes of pesticides for plant diseases control EVERGREEN Project LIFE13 ENV/IT/000461	TEGLI S.(1); BIRICOLTI S.(1); IZQUIERDO C.G.(2); MILLI G.(3); BARGIACCHI E.(4); TISSELLI V.(5); BANCII E.(6); MIELE S.(4)	(1) DISPAA-UniFi, Lab Molecular Plant Pathology, Firenze, Italy; (2) CSIC-CEBAS, Espinardo, Spain; (3) Fattoria Autonoma Tabacchi (FAT), I-06012 Città di Castello, Italy; (4) Consortium for Science and Technology of Materials (INSTM), I-50121 Firenze, Italy; (5) ASTRA, Reg. Emilia-Romagna, G MondoVerde Casa e Giardino, Firenze, Italy; (6) MondoVerde Casa e Giardino, Firenze, Italy
AP	25	1025	Molecular Breeding	Tobacco genomic resources for gene discovery	BROMLEY J.R.(1); EVANS A.D.(1); FERNANDEZ-POZO N.(2); HUMPHRY M.E.(1); BOMBARELY A.(3); HOSMANI P.S.(2); DIAMANTAKIS S.K.(1); MUELLER L.A.(2); EDWARDS K.D.(1)	(1) British American Tobacco Company, Plant Biotechnology Division, Cambridge, U.K.; (2) Boyce Thompson Institute for Plant Research, Ithaca, NY, U.S.A.; (3) Virginia Tech, Department of Horticulture, Blacksburg, VA, U.S.A.
AP	26	977	Molecular Breeding	Combining gene expression, metabolomics, and conventional breeding to increase the nitrogen use efficiency of Burley tobacco	KUDITHIPUDI C.; FREDERICK J.; XU D.; ADAMS A.; PRAMOD S.; WAREK U.; STRICKLAND J.A.	Altria Client Services LLC, Research, Development and Regulatory Affairs, Richmond, VA, U.S.A.
AP	27	1146	Molecular Breeding	Insights of whole genomic studies in Burley recurrent selection program	PADUA J.M.V.; PULCINELLI C.E.; FERREIRA R.A.C.D.; BOARETTO L.F.; BARBOSA P.K.A.; WEISS V.A.	Souza Cruz Ltda, British American Tobacco, Group R&D, Rio Negro, Brazil
AP	28	953	Molecular Breeding	Identification of the genes underlying the yellow Burley phenotype in Nicotiana tabacum	LEWIS R.S.(1); DRAKE-STOWE K.(1); HUMPHRY M.E.(2); EDWARDS K.D.(2); KERNODLE S.P.(1)	(1) North Carolina State University, Crop Science Department, Raleigh, NC, U.S.A.; (2) British American Tobacco Company, Cambridge, U.K.
AP	29	947	Molecular Breeding	Comparative proteomic analysis reveals differential protein and energy metabolisms from two tobacco cultivars in response to cold stress	HU Risheng(1); ZHU Xianxin(2); XIANG Shipeng(1); YANG Chengwei(3); LAI Jianbin(3); ZHANG Xianwen(2); LIU Zhi(2); ZHU Lieshu(2)	(1) Central South Agricultural Experiment Station of CNTC, Changsha, P.R. China; (2) Hunan Agricultural University, Changsha, P.R. China; (3) South China Normal University, Guangzhou, P.R. China
AP	30	1121	Molecular Breeding	Feasibility to develop ultra-low nicotine tobacco leaf complying with proposed future nicotine regulation - a review of genetic approaches	GILLES T.	British American Tobacco Company, Plant Biotechnology Division, Cambridge, U.K.
AP	31	1102	Nutrients	Growth and nutrient absorption by flue-cured tobacco in field conditions	COELHO F.S.; OLIVEIRA V.B.; BERGER I.J.	Souza Cruz Ltda, Global Leaf R&D, Cachoeirinha, RS, Brazil
AP	32	1148	Nutrients	Evaluation of various NPK fertilizer formulations applied as side dressing to tobacco in Santa Cruz do Sul region, RS, Brazil	MOORE J.M.(1); BAFALLUY R.(2); REAL R.(2); CHAVES L.C.S.V.(3)	(1) University of Georgia, Tifton, GA, U.S.A.; (2) SQM, Alphaville, Barueri, Santana de Parnaíba, SP, Brazil; (3) SANTAGRO, Santa Cruz Agrícola Comercial Ltda, Santa Cruz do Sul, RS, Brazil
AP	33	1035	Nutrients	The effect of chloride application rate to the yield, quality, and chemical constituents of flue-cured tobacco	PACE C.R.(1); VANN M.C.(1); FISHER L.R.(1); SEAGROVES R.(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	34	1143	Nutrients	Humic and fulvic acid as biostimulants in tobacco production	COELHO F.S.; OLIVEIRA V.B.; BERGER I.J.	Souza Cruz Ltda, Global Leaf R&D, Cachoeirinha, RS, Brazil
AP	35	930	Virus 1	Spotted wilt control update	BERTRAND P.F.; MOORE J.M.	University of Georgia, Crop and Soil Sciences, Tifton, GA, U.S.A.
AP	36	945	Virus 1	Study on the anti-TMV activity of the alkaloids from Nicotiana glutinosa	ZHOU Wenbing; Ji Sigui; Li Jiangzhou; CUI Yonghe; ZHANG Limeng	Yunnan Tobacco Company, Yuxi Branch, Yuxi City, P.R. China
AP	37	1003	Virus 1	Loss-of-function of a tobacco eukaryotic translation initiation factor confers resistance to tobacco bushy top virus	SHINJO A.; TAKAKURA Y.; UDAGAWA H.; KOGA K.	Japan Tobacco Inc., Leaf Tobacco Research Center, Oyama, Tochigi, Japan



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Group	Num	ID	Session	Abstract Title	Authors	Source
AP	38	1011	Breeding	Agronomic performance of doubled haploid lines and their use as parental lines of hybrids	OLIVEIRA E.D.(1); MILLER R.D.(2)	(1) Alliance One Brasil Exp. de Tabacos Ltda, Vera Cruz, RS, Brazil; (2) University of Kentucky, Kentucky Tobacco Research and Development Center, Lexington, KY, U.S.A.
AP	39	1019	Breeding	Identification of genetic determinants controlling cadmium accumulation in tobacco	BERTRAND J.(1); JULIO E.(2); COTUCHEAU J.(2); DORLHAC DE BORNE F.(2); BERTHOMIEU P.(1)	(1) UMR de Biochimie et Physiologie Moléculaire des Plantes, INRA/CNRS/Montpellier SupAgro/Université Montpellier, Montpellier, France; (2) Imperial Tobacco Limited, Leaf Research, La Tour, Bergerac, France
AP	40	1018	Breeding	Genetic screening for tobacco breeders	DORLHAC DE BORNE F.; COTUCHEAU J.; JULIO E.	Imperial Tobacco Limited, Leaf Research, La Tour, Bergerac, France
AP	41	1031	Breeding	Greenhouse method to screen for resistance to Granville wilt in tobacco	MARTINEZ-OCHOA N.; MILLER R.D.	University of Kentucky, Department of Plant and Soils, Lexington, KY, U.S.A.
AP	42	1030	Breeding	Progress in development of a high-throughput phenotyping test as breeding tool for broomrape resistance in tobacco: an overview of results	MALPICA A.(1); VERRIER J.-L.(1); BACHET S.(1); BEN JEMAA F.(2); POUVRAUD J.-B.(2); SIMIER P.	(1) Bergerac Seed & Breeding, Bergerac, France; (2) Laboratoire de Biologie et de Pathologie Végétale, Nantes University, Nantes, France
AP	43	1118	CPAs	Evaluation of dark tobacco transplanting intervals following 2,4-D and saflufenacil herbicide applications	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	44	1024	CPAs	Plant related factors impacting MH residues in flue-cured tobacco	REED T.D.	Virginia Tech, Southern Piedmont Center, Blackstone, VA, U.S.A.
AP	45	1013	CPAs	Preliminary study on the metabolites of Spirotetramat in tobacco for possible residue definition	OYAMA K.(1); NAKABAYASHI T.(1); NAKAJIMA K.(1); VANN M.C.(2)	(1) Japan Tobacco, Inc., Leaf Tobacco Research Center, Oyama-shi, Tochigi, Japan; (2) North Carolina State University, Department of Crop & Soil Sciences, Raleigh, NC, U.S.A.
AP	46	917	CPAs	Pesticide residues in and on tobacco – a mystery?! Part I	DECLERCQ M.; BILLENKAMP N.	NiCoTa GmbH, Rheinstetten, Germany
AP	47	918	CPAs	Pesticide residues in and on tobacco – a mystery?! Part II	BILLENKAMP N.; DECLERCQ M.	NiCoTa GmbH, Rheinstetten, Germany
AP	48	997	CPAs	High performance amino acid application and its relationship with flumetralin residues in flue-cured tobacco: impact in sucker control and tobacco sustainability in Brazil	GUERRA J.(1); GUERRA T.(1); COSTA C.E.(1); THIESEN M.(1); BRONDANI DA ROCHA A.(2)	(1) LBE Biotecnologia Brasil Ltda, Bairro Areias, São José, SC, Brazil; (2) Plantarum Desenvolvimento e Tecnologias, Bairro Centro, Sinimbu, RS, Brazil
AP	49	1090	Bio-control	Potential alternative control for Ephestia spp. using parasitoid wasps	KÖHLER A.(1); PEZZINI C.(1); ROESCH F.(2); FEUERBORN M.(2)	(1) Universidade de Santa Cruz do Sul (UNISC), Laboratory of Entomology, Santa Cruz do Sul, RS, Brazil; (2) Japan Tobacco International (JTI), Santa Cruz do Sul, RS, Brazil
AP	50	929	Bio-control	Trichome extracts from Nicotiana hybrids - a resource for testing disease/insect resistance	MIHAYLOVA-KROUMOVA A.B.; WAGNER J.G.	University of Kentucky, KTRDC, Lexington, KY, U.S.A.
AP	51	948	Bio-control	Change of microbial community composition in bacterial wilt infected tobacco-planting soils and regulation of the functional bio-organic fertiliser	WANG Rui(1); TAN Jun(1); SHI Heli(1); ZHAO Xiyun(2)	(1) Enshi Tobacco Company of Hubei Province of CNTC, Enshi, Hubei, P.R. China; (2) College of Life Science and Technology, Huazhong Agricultural University, Wuhan, P.R. China
AP	52	1058	Bio-control	Biological control of soil borne diseases in tobacco	REDDY BSR.; SWAMY S.; MANI M.	ITC Limited, Research Department, Agri Business Division-ILTD, Rajahmundry, Andhra Pradesh, India
AP	53	949	Virus 2	Interactions between tobacco bushy top virus and its satellite RNA	MO Xiaohan(1); ZHANG Lifang(1,2); ZHAO Xingneng(1,2); XU Ping(1,2); LI Yanqiong(1,2); XIA Zhenyuan(1); QIN Xiyun(1); CHEN Hairu(2)	(1) Yunnan Academy of Tobacco Agricultural Sciences, Kunming, P.R. China; (2) College of Plant Protection, Yunnan Agricultural University, Kunming, P.R. China
AP	54	941	Virus 2	Cucumber mosaic virus-IB induced endoplasmic reticular stress in Nicotiana benthamiana	SHEN Lili; LI Fangfang; HE Qingyun; LI Ying; YANG Jinguang; WANG Fenglong	Tobacco Research Institute, Chinese Academy of Agricultural Sciences, Qingdao, Shandong, P.R. China
AP	55	1017	Virus 2	Genetic and functional analysis of va resistance durability to Potato virus Y in tobacco	JULIO E.(1); MICHEL V.(2); COTUCHEAU J.(1); DORLHAC DE BORNE F.(1); GLAIS L.(3,4); JACQUOT E.(5); DECROOQ V.(2); CANDRESSE T.(2); GERMAN-RETANA S.(2)	(1) Imperial Tobacco Limited, Leaf Research, La Tour, Bergerac, France; (2) INRA et Université de Bordeaux, UMR 1332 BFP, BP81, Villenave d'Ornon, France; (3) FN3PT/RD3PT, Paris, France; (4) INRA, UMR1349 IGEPP, Le Rheu, France; (5) INRA-Cirad-Supagro Montpellier, UMR BGPI, Montpellier, France
AP	56	944	Virus 2	Cloning and expression induced by TMV of a pathogenesis related protein gene NtPR10 in tobacco (Nicotiana tabacum)	ZHANG Yu; ZHANG Zenglin; JIANG Caihong; CHANG Aixia; YANG Aiguo; LUO Chenggang; WANG Shaomei; WANG Yuanying	Tobacco Research Institute, Chinese Academy of Agricultural Sciences, Qingdao, Shandong, P.R. China
APW	01	1153	Workshop - Sustainable Tobacco Production (STP)	Delivering positive change through the Sustainable Tobacco Programme	YIEND O.; CLARKE H.; AHMED S.; KUSIAK A.	AB Sustain, Peterborough, U.K.
APW	02	1154	Workshop - Sustainable Tobacco Production (STP)	Agronomic data collection, management, and analysis: an overview of the MobiLeaf system	SCOTT G.L.	Universal Leaf Tobacco Co., Inc., Richmond, VA, U.S.A.



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APW	03	1041	Workshop - Sustainable Tobacco Production (STP)	Actions against child labour and alternatives to rural youth	SCHÜNKE I.	SindiTabaco - Interstate Tobacco Industry Union, Santa Cruz do Sul, RS, Brazil
APW	04	928	Workshop - Sustainable Tobacco Production (STP)	Reshaping pest management in the tobacco agro system: biological control and judicious use of pesticides	NDLELA S.	Tobacco Research Board, Harare, Zimbabwe
APPOST	01	1056	Poster	Nicotine reduction: use of modelling approach to evaluate unintended consequences, a focus on illicit trade	GUO M.; VERRON T.; CAHOURS X.; COLARD S.	SEITA-Imperial Tobacco Limited, Fleury-les-Aubrais, France
APPOST	02	1143	Poster	Enhancing seed integrity among smallholder tobacco farmers through use of certified seed in Malawi	MANTCHOMBE M.K.; NYANGULU J.F.S.; GOMONDA R.W.J.; KHUMBANYIWA A.G.; MSANGOSOKO K.R.; CHAMANGO A.M.Z.	Agricultural Research and Extension Trust (ARET), Lilongwe, Malawi
APPOST	03	922	Poster	Sponged tobacco: meteorological and altitude influence on curing methods in flue-cured systems in South Africa	DU PLESSIS H.(1); ROOS H.J.(2)	(1) Limpopo Tobacco Processors (Pty) Ltd, Rustenburg, South Africa; (2) Tobacco Producer, Rustenburg, South Africa
APPOST	04	1050	Poster	Developing flue-cured tobacco hybrids with combined resistance to granville wilt and root-knot nematodes and angular leaf spot in Malawi	SIBANDE L.A.G.O.; CHAMANGO A.M.Z.; GOMONDA R.W.J.	Agricultural Research and Extension Trust (ARET), Lilongwe, Malawi
APPOST	05	1082	Poster	Effect of FMC Crop+ on reduction of oxidative stress in tobacco seedlings exposed to low and high temperatures	EBLING M.(1); BLASZCZAK A.(2); WOZNIAK E.M.(2); BRONDANI DA ROCHA A.(3)	(1) FMC Agricultural Products, Campinas, SP, Brazil; (2) Cytozyme Laboratories, Inc., Salt Lake City, UT, U.S.A.; (3) Plantarum Desenvolvimento e Tecnologias, Bairro Centro, Sinimbu, RS, Brazil
APPOST	06	1104	Poster	Soil applications of maleic hydrazide do not control tobacco axillary bud growth	VANN M.C.; WHITLEY D.S.	North Carolina State University, Department of Crop & Soil Sciences, Raleigh, NC, U.S.A.
APPOST	07	925	Poster	Effects of fertigation and micro-spraying on growth of flue-cured tobacco, soil properties and water use efficiency	SHI Hongzhi(1); ZHANG Mengyue(1); XIE Zhan(1); YANG Huijuan(1); DUAN Weidong(2); DUN Songyang(3); LI Hongliang(3)	(1) Henan Agricultural University / Tobacco Cultivation Key Laboratory of China Tobacco, Zhengzhou, P.R. China; (2) Henan Tobacco Industry Co. Ltd, Zhengzhou, P.R. China; (3) Xuchang Tobacco Company of Henan Province, Xuchang, P.R. China
APPOST	08	911	Poster	Maintaining the integrity of Malawi tobacco: how ARET is managing the transition from Tox1 CPAs and the fight against tobacco beetle	MSANGOSOKO K.R.; MAINJENI C.E.D.; GOMONDA R.W.J.; KHUMBANYIWA A.G.	Agricultural Research and Extension Trust (ARET) (ARET), Lilongwe, Malawi
APPOST	09	1133	Poster	Sustaining low TSNA levels in Malawi Burley tobacco using the LC Protocol	CHAMANGO A.M.Z.(1); SIBANDE L.A.G.O.(1); JACK A.M.(2); GOMONDA R.W.J.(1); JI H.(2); MPHEMBERA A.(1); MWANYONGO A.(1); MSANGOSOKO K.R.(1); KHUMBANYIWA A.G.(1); KUMWENDA R.L.N.(1)	(1) Agricultural Research and Extension Trust (ARET), Lilongwe, Malawi; (2) University of Kentucky, Kentucky Tobacco Research and Development Center, Lexington, KY, U.S.A.
APPOST	10	946	Poster	Degradable characterisation and risk assessment of suckercides residues in tobacco leaf	LI Yiqiang; XIANG Zhenbo; XU Guangjun; XU Jinli; ZHENG Xiao; SUI Chengcheng; JIANG Huatao; ZHANG Guangyu	Tobacco Research Institute, Chinese Academy of Agricultural Sciences, Qingdao, Shandong, P.R. China
APPOST	11	915	Poster	Resistant tobacco varieties: an eco-friendly solution for pest control, reduced CPA use, and improved yields	MSANGOSOKO K.R.; MAINJENI C.E.D.; CHAMANGO A.M.Z.; GOMONDA R.W.J.	Agricultural Research and Extension Trust (ARET) (ARET), Lilongwe, Malawi
APPOST	12	908	Poster	Di@gnoplant® Tobacco: a mobile tool to identify tobacco diseases	BLANCARD D.(1); ARMAND J.M.(1); MARIIGNAC E.(2)	(1) INRA, UMR Santé et Agroécologie de la Vigne, ISVV - IFR103, Villenave-d'Ornon, France; (2) CORESTA, Paris, France
APPOST	13	951	Poster	Fungal diversity analysis of yellow sun-cured tobacco leaves during curing	MI Qili; QIAN Yingying; ZHU Zhouhai; GUAN Ying; GAO Qian; CHEN Jianhua; XIE Lihua; LI Xuemei; YAO Jianhua	Yunnan Industrial Co. Ltd of CNTC, Technology Center, Kunming 650106, P.R. China
APPOST	14	1057	Poster	Race determination of root-knot nematodes (Meloidogyne spp.) isolates from major tobacco growing areas in Malawi	MAINJENI C.E.D.; CHAMANGO A.M.Z.; DUMBO E.L.C.	Agricultural Research and Extension Trust (ARET), Lilongwe, Malawi
APPOST	15	1105	Poster	Effect of AZACT CE on fungus gnats larvae (Bradysia impatiens) control in tobacco seedlings production in floating systems	CURY L.A.(1); DE ABREU H.(2)	(1) LACSA, Cravinhos, SP, Brazil; (2) Universidade de Cantareira, Catumbi, São Paulo, SP, Brazil
APPOST	16	1114	Poster	Effect of sanitizer ds5285 on tobacco seedlings disease control	SCARANELLO L.(1); BORGES G.G.(1); SAVARIS T.(2)	(1) Lonza, Bairro Buru, Salto, SP, Brazil; (2) Valetéc Agrícola, Bairro Alto da Bronze, Estrela, RS, Brazil
APPOST	17	1120	Poster	Effective control of damping-off disease in dual infection on tobacco seedlings in beds	GVEROSKA B.	University "St. Kliment Ohridski" - Bitola, Scientific Tobacco Institute - Prilep, Department of Tobacco Protection from Diseases, Pests and Weeds, Prilep, Republic of Macedonia
APPOST	18	932	Poster	Study the virulence of some native Bacillus thuringiensis strains isolated from soils of different tobacco fields on control of Helicoverpa armigera	SHAZDEHAHMADI M.(1); SAJJADI A.(1); SHAHADATI MOGHADDAM Z.(1); SALEHI JOZANI G.H.R.(2); ASSEMI H.(1); MASOUDI A.(1)	(1) Tirtash Tobacco Research and Education Center, Behshar, Iran; (2) Microbial-Biotechnology and Biosafety Department, Agriculture-Biotechnology Research Institute (ABRII), Iran
APPOST	19	923	Poster	Investigation of broadsens heritability and genetic diversity among tobacco genotypes using ISSR markers and morpho-physiological traits	SALAVATI MEYBODI M.R.; KHARAZI M.; ALINEJAD R.	Tirtash Tobacco Research and Education Center, Behshar, Iran



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APPOST	20	913	Poster	Introducing a forecasting model for tobacco black shank in Golestan Province (North of Iran)	SAJJADI A.(1); AGHAJANI M.A.(2); ASSEMI H.(1); NAJAFI M.R.(1); GHOLIZADEH A.(3); SHAHADATI MOGHADDAM Z.(4)	(1) Plant Protection Department of Tirtash Tobacco Research and Education Centre, Behshar, Iran; (2) Assistant Professor of Agricultural and Natural Resources Research Center of Golestan, Gorgan, Iran; (3) Agronomy and Plant Breeding Department of Tirtash Tobacco Research and Education Center, Behshahr, Iran; (4) Biotechnology Department of Tirtash Tobacco Research and Education Center, Behshahr, Iran
APPOST	21	1004	Poster	Study use of bulk-curing on quality and quantity characteristics of Oriental tobacco	MOHSENZADEH R.; SERAJI M.R.; AHMADI M.; DAVANLOO A.R.; ALINEJAD R.	Tirtash Tobacco Research and Education Center, Behshahr, Iran
APPOST	22	1005	Poster	Study of different curing conditions and stringing of leaves on quality and quantity characteristics of Oriental tobacco	MOHSENZADEH R.; YAGHOUBI Y.; DAVANLOO A.R.; AHMADI M.; SHAHADATI MOGHADDAM Z.	Tirtash Tobacco Research and Education Center, Behshahr, Iran

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

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