



2015 CORESTA AGRO-PHYTO JOINT STUDY GROUPS MEETING - Izmir, Turkey - 25-29 October 2015

LIST OF ORAL / POSTER PRESENTATIONS

30/10/2015

Group	Num	ID	Session	Abstract Title	Authors	Source
IG	01	491	Opening Session	Association mapping in a collection of tobacco reference cultivars. Step One: Variability of smoke constituents	JULIO E.(1); VERRON T.(2); CAHOURS X.(2); DORLHAC de BORNE F.(1); COLARD S.(2)	(1) SEITA, Imperial Tobacco Group, Bergerac, France; (2) SEITA, Imperial Tobacco Group, Fleury-les-Aubrais, France
IG	02	629	Opening Session	Update on the progress of the Framework Convention on Tobacco Control	MARTELLINI B.	ULTOCO Services S.A., Geneva, Switzerland
AP	01a	633	Opening Session	Tobacco production in Turkey	GUREL N.	Aegean Tobacco Exporters' Association, Izmir, Turkey
AP	01b	635	Opening Session	Regulatory mechanisms of Turkish tobacco market	UZDAY F.	Tobacco and Alcohol Market Regulatory Authority, Liaison Office, Izmir, Turkey
AP	02	477	Opening Session	Scout based application and integration of nematode resistant cultivars: an IPM strategy for reducing pesticide use in tobacco production in Malawi	MSANGOSOKO K.R.; MAINJENI C.E.D.; GOMONDA R.W.J.; CHAMANGO A.M.Z.	Agricultural Research and Extension Trust (ARET), Lilongwe, Malawi
AP	03	527	Viruses	The interactions between tobacco vein distorting virus and tobacco bushy top disease-associated RNA	MO Xiaohan; XU Ping; ZHAO Xingneng; ZHANG Lifang; QIN Xiyun; XIA Zhenyuan	Yunnan Academy of Tobacco Agricultural Sciences of CNTC, Kunming, Yunnan, P.R. China
AP	04	530	Viruses	Selection and identification of a tobacco endophytic bacteria strain L1 with inhibitory effect against TMV	ZHAN Huaixu; WANG Fenglong; SHEN Lili; YANG Jinguang; QIAN Yumei; CHEN Dexin	Qingzhou Tobacco Research Institute of CNTC, Qingdao, Shandong, P.R. China
AP	05	532	Viruses	Discovery of RNA viruses in tobacco by high throughput sequencing of small interfering RNA (siRNA)	WANG Fang(1); ZHOU Benguo(1); GAO Zhengliang(1); DONG Jianjiang(2)	(1) Tobacco Institute, Anhui Academy of Agricultural Sciences, Hefei, P.R. China; (2) Anhui Province Tobacco Monopoly Administration, Hefei, P.R. China
AP	06	534	Bacterial & Fungal Diseases	Integrated measures for bio-control of tobacco bacterial wilt and the effect on soil microorganisms	LIU Yanxia; <u>LI Xiang</u>	Guizhou Academy of Tobacco Science of CNTC, Guiyang, Guizhou, P.R. China
AP	07	479	Bacterial & Fungal Diseases	Use of natural products from tobacco and other Nicotiana species to prevent black shank disease in tobacco	MIHAYLOVA-KROUMOVA A.; ARTIOUCHIE I.; WAGNER G.J.	University of Kentucky, KTRDC, Lexington, KY, USA
AP	08	543	Bacterial & Fungal Diseases	Molecular mechanism of powdery mildew resistance in tobacco	ARAI M.; TAJIMA T.; SATO S.; KOMATSU T.; FUJIMURA T	Japan Tobacco Inc., Leaf Tobacco Research Center, Tochigi, Japan
AP	09	523	Bacterial & Fungal Diseases	Inhibitory activity of maize root exudates against Phytophthora nicotianae and antifungal compounds analysis	ZHANG Limeng(1); JI Sigui(1); JIAO Yongge(1); LI Jiangzhou(1); GU Xinghui; CUI Yonghe; ZHAO Jinlong; ZHU Shusheng(2); YANG Min(2)	(1) Yunnan Tobacco Company, Yuxi Branch, Yuxi, P.R. China; (2) Key Laboratory for Agro-biodiversity and Pest Control of Ministry of Education, Yunnan Agricultural University, Kunming, P.R. China
AP	10	528	Bacterial & Fungal Diseases	Biological control of Ralstonia solanacearum using Ralstonia phage and the influence of diversity of soil bacteria	WANG Fenglong(1); GAO Miao(1); QIAN Yumei(1); SHEN Lili(1); YU Guanghong(2); WANG Yaofeng(3); YANG Jinguang(1)	(1) Key Laboratory of Tobacco Pest Monitoring Controlling & Integrated Management / Tobacco Research Institute, Chinese Academy of Agricultural Sciences, Qingdao, Shandong, P.R. China; (2) Baoshan Oriental Tobacco Company Ltd, Baoshan, Yunnan, P.R. China; (3) Qingyang Company, Gansu Provincial Tobacco, Xifeng, Gansu, P.R. China
AP	12	478	Sustainability	The Integrated Tobacco Production System (IPS) model: opportunities, challenges and future prospects for Malawi	MANTCHOMBE M.K.; MSANGOSOKO K.R.; CHAMANGO A.M.Z.; GOMONDA R.W.J.; KHUMBANYIWA A.G.	Agricultural Research and Extension Trust (ARET), Lilongwe, Malawi
AP	13	539	Sustainability	Mulching for tobacco cultivation in Japan	CHIDA H.	Japan Tobacco Inc., Leaf Tobacco Research Center, Tochigi, Japan
AP	14	562	Sustainability	Farmer managed natural regeneration: a better option for restocking natural woodlands on tobacco farms in Malawi	OFESI H.K.T.	Agricultural Research and Extension Trust (ARET), Lilongwe, Malawi
AP	16	589	TSNA	Effect of moisture content, nitrate and nitrite on TSNA accumulation in Burley tobacco after high temperature storage	SUN Wenshu(1); SHI Hongzhi(1); ZHOU Jun(2); YANG Huijuan(1); JI Huihua(3); WANG Jun(1); JACK A.M.(3); BAI Ruoshi(2); XU Dongya(1); JIAO Zheheng(1)	(1) Henan Agricultural University, 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., Beijing, P.R. China; (3) University of Kentucky, Lexington, KY, U.S.A.
AP	17	567	TSNA	Tobacco specific nitrosamine (TSNA) levels of the U.S. domestic Burley crop and their relationship with relative humidity conditions during curing	LION K.; <u>LUSSO M.</u> ; MORRIS W.; HART F.	Altria Client Services Inc. Inc., Research, Development & Engineering, Richmond, VA, U.S.A.
AP	18	538	TSNA	The effect on TSNA of cutting and housing wet tobacco	JACK A.M.; FISHER C.R.; JI H.	University of Kentucky, Lexington, KY, U.S.A.
AP	19	616	TSNA	TSNA accumulation in controlled curing environments	FISHER C.R.(1); JACK A.M.(2); JI H.(2)	(1) University of Kentucky, Plant and Soil Science Dept., Lexington, KY, U.S.A.; (2) University of Kentucky, Kentucky Tobacco Research and Development Center, Lexington, KY, U.S.A.
AP	20	568	TSNA	N-nitrosornicotine (NNN) level in lamina of experimental Burley isogenic lines bred to have stable low nicotinic content and cured under conditions favorable for TSNA formation	LUSSO M.; LION K.; MORRIS W.; ADAMS A.	Altria Client Services Inc. Inc., Research, Development & Engineering, Richmond, VA, U.S.A.



Group	Num	ID	Session	Abstract Title	Authors	Source
AP	23	551	Entomology & Nematodes	DuPont™ Cyazypyr® a new cross-spectrum tool for sustainable control of tobacco pests	RISON J.L.; <u>ROUGIER P.</u> ; FLIER W.	DuPont de Nemours, Puteaux, France
AP	24	484	Entomology & Nematodes	Effect of time and concentration on mortality of the cigarette beetle, <i>Lasioderma serricorne</i> (F.), fumigated with phosphine	FUKAZAWA N.; TAKAHASHI R.	Japan Tobacco Inc., Leaf Tobacco Research Center, Tochigi, Japan
AP	26	610	Curing	Tobacco curing tunnels in Zimbabwe: A solution for sustainability	BROOKER A.G.P.	Brown Engineering, Harare, Zimbabwe
AP	27	621	Breeding & Genetics	Genetic variability for upper stalk sucker growth in flue-cured tobacco and its potential use	VERRIER J.L.; L'HUMEAU J.	Bergerac Seed & Breeding, Bergerac, France
AP	28	582	Breeding & Genetics	Nicotiana hybridization map – "blank spots" yet to be filled	BERBEĆ A.	Institute of Soil Science and Plant Cultivation - State Research Institute, Pulawy, Poland
AP	29	490	Breeding & Genetics	Characterisation of the Rk1 resistance to Meloidogyne in tobacco by RNA-Seq analysis	JULIO E.; COTUCHEAU J.; DECORPS C.; LAURENT T.; DORLHAC de BORNE F.	SEITA, Imperial Tobacco Group, Bergerac, France
AP	31	476	Breeding & Genetics	New locally-bred nematode resistant Burley tobacco hybrids for Malawi	CHAMANGO A.M.Z.; GOMONDA R.W.J.; MAINJENI C.E.D.; MSANGOSOKO K.R.; KUMWENDA R.L.N.	Agricultural Research and Extension Trust (ARET), Lilongwe, Malawi
AP	32	594	CPAs	CPA residue levels in consecutive C48 cases of Oriental tobacco	WESTBERG H.; SPENCER A.	Global Laboratory Services, Wilson, NC, U.S.A.
AP	33	556	CPAs	Conveyor use for suckercide application in North Carolina Burley tobacco production	VANN M.C.; FISHER L.R.; WHITLEY D.S.	North Carolina State University, Department of Crop Science, Raleigh, NC, U.S.A.
AP	35	525	Soil Management & Nutrition	Measuring canopy nitrogen nutrition in tobacco plants using hyper spectrum parameters	ZOU Yong; YE Xiaoping; YU Zhihong; CHEN Yufeng; WANG Wei; CHEN Jianjun	(1) Shenzhen Tobacco Ind. Co., Ltd. of CNTC, Shenzhen, Guangdong, P.R. China; (2) Shenzhen Boton Flavors & Fragrances Co., Ltd., Shenzhen, Guangdong, P.R. China; (3) Tobacco Laboratory, South China Agricultural University, Guangzhou, Guangdong, P.R. China
AP	36	533	Soil Management & Nutrition	Effects of straw biochar on the growth of flue-cured tobacco and soil nutrients	ZHANG Jixu(1,2); WANG Rui(3); LIU Dehu(4); ZHANG Jiguang(1); GAO Lin(1); DAI Yanchen(1); ZHA Ting(1); MENG Guixing(3); XIANG Bikun(3); <u>SHEN Guoming</u> (1)	(1) Tobacco Research Institute, Chinese Academy of Agricultural Sciences, Key Laboratory of Tobacco Biology and Processing, Ministry of Agriculture, Qingdao, Shandong, P.R. China; (2) Qingdao Agricultural University, Qingdao, Shandong, P.R. China; (3) Enshi Branch of Hubei Tobacco Company, Enshi, Shandong, P.R. China; (4) Qingzhou Cigarette Factory, China Tobacco Shandong Industrial Co., Ltd., Shandong, Qingzhou, P.R. China
AP	38	553	Soil Management & Nutrition	Alternative primary tillage practices for flue-cured tobacco in North Carolina	INMAN M.D.; <u>VANN M.C.</u>	North Carolina State University, Department of Crop Science, Raleigh, NC, U.S.A.
AP	40	554	Miscellaneous	Tray type and soilless media brand performance in tobacco transplant production	VANN M.C.(1); WHITLEY D.S.(1); CHEEK J.A.(1); SPIVEY B.M.(2); WHALEY W.T.(3)	(1) North Carolina State University, Department of Crop Science, Raleigh, NC, U.S.A.; (2) Johnston County Cooperative Extension, Smithfield, NC, U.S.A.; (3) Wayne County Cooperative Extension, Goldsboro, NC, U.S.A.
AP	41	510	Miscellaneous	Effects of different growth temperatures on alkaloid content and nicotine metabolism in roots, stems and leaves of tobacco (<i>Nicotiana tabacum</i> L.) plants	JIN Y.F.(1); WANG S.S.(1); LI J.Y.(2); PANG T.(2); ZHANG J.B.(1); <u>GONG M.</u> (1)	(1) School of Life Sciences, Yunnan Normal University, Kunming, P.R. China; (2) Yunnan Academy of Tobacco Agricultural Sciences, Kunming, P.R. China
AP	42	634	Miscellaneous	Kutsaga's Tobacco Improved Productivity Sites (TIPS): for improved productivity and leaf quality of the small-holder crop	DIMBI S.; KHUDDU G.	Tobacco Research Board, Harare, Zimbabwe
APW	01	626	Workshop - Omics	'Omics': Opening a window to the workings of the tobacco plant	EDWARDS K.D.; <u>BROMLEY J.R.</u> ; EVANS A.D.; HUMPHRY M.E.; SANCHEZ-TAMBURRINO J.P.	British American Tobacco, R&D Cambridge, Cambridge, U.K.
APW	02	627	Workshop - Omics	The tobacco genome sequence	SIERRO N.; BATTEY J.N.D.; OUADI S.; BAKAHER N.; BOVET L.; WILLIG A.; GOEPFERT S.; PEITSCH M.C.; IVANOV N.V.	Philip Morris Products S.A., PMI R&D, Neuchâtel, Switzerland
APW	03	630	Workshop - Omics	Transcriptomic and metabolomic studies reveal spatiotemporal switches of primary and secondary metabolism during leaf senescence of tobacco	LI Wei(1); ZHANG Hailiang(1); LIU Cheng(1); DU Yongmei(1); GAO Xiaoming(1); WANG Guodong(2); <u>GUO Yongfeng</u> (1)	(1) Tobacco Research Institute, Chinese Academy of Agricultural Sciences, Qingdao, P.R. China; (2) Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, Beijing, P.R. China
APW	04	628	Workshop - Omics	TALEN and CRISPR strategies for targeted editing of the plant genome	MAZIER M.(1); NOGUÉ F.(2)	(1) INRA-UR1052-GAFL Génétique et Amélioration des Fruits et Légumes, Montfavet, France; (2) INRA UMR1318 IJPB Institut Jean-Pierre Bourgin, INRA Centre de Versailles-Grignon, Versailles, France
APPOST	01	472	Posters AP (Production)	Evaluation of effect of coated fertilisers for use in flue-cured tobacco production	MTONGA Y.P.(1); MUMBA J.B.(1); GOMONDA R.W.J.(1); LOCKINGTON I.(2); MACMILLAN C.(2)	(1) Agricultural Research and Extension Trust (ARET), Lilongwe, Malawi; (2) Greenbelt Fertilisers Ltd, Mazabuka, Zambia
APPOST	02	471	Posters AP (Production)	Evaluation of the effect of <i>Jatropha</i> seedcake as organic basal fertiliser on plant growth, yield and quality of flue-cured tobacco	MTONGA Y.P.; MUMBA J.B.; GOMONDA R.W.J.	Agricultural Research and Extension Trust (ARET), Lilongwe, Malawi



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APPOST	06	524	Posters AP (Production)	Materials, energy and value flows analysis of different tobacco planting patterns in Southern Anhui area	ZHANG Jiguang(1); ZHANG Zhongfeng(1); YAO Zhongda(2); ZHANG Fujian(2); GUO Dongfeng(2); JI Xuejun(3); ZHU Qifa(3); XUE Lin(3); SHEN Guoming(1)	(1) Tobacco Research Institute, Chinese Academy of Agricultural Sciences, Key Laboratory of Tobacco Biology and Processing, Ministry of Agriculture, Qingdao, P.R. China; (2) China Tobacco Anhui Industrial Co. Ltd., Hefei, P.R. China; (3) Anhui Wannan Tobacco Leaf Co. Ltd, Xuancheng, P.R. China
APPOST	07	507	Posters AP (Production)	Host farmer demonstrations: a viable strategy for reaching out to growers with new tobacco technologies in Malawi	MANTCHOMBE M.K.; NYANGULU J.E.S.; CHIWAYA P.G.; MSANGOSOKO K.R.	Agricultural Research and Extension Trust (ARET), Lilongwe, Malawi
APPOST	09	590	Posters AP (Curing)	Effect of changing curing methods on TSNA formation for flue-cured and Burley tobacco	LI Yafei(1); SHI Hongzhi(1); SUN Junwei(2); YANG Huijuan(1); WANG Jing(1); HU Kun(1)	(1) Henan Agricultural University, National Tobacco Cultivation & Physiology & Biochemistry Research Center, Tobacco Cultivation Key Laboratory of China Tobacco, Zhengzhou, P.R. China; (2) Dali Tobacco Company of Yunnan, Dali, P.R. China
APPOST	12	619	Posters AP (Breeding & Genetics)	Variability in some old tobacco varieties in the Republic of Macedonia	MICESKA G.; KORUBIN-ALEKSOSKA A.; ALEKSOSKI J.	Scientific Tobacco Institute - Prilep, University of "St. Kliment Ohridski"-Bitola, Prilep, Republic of Macedonia
APPOST	13	618	Posters AP (Breeding & Genetics)	Breeding for drought tolerance in tobacco	KORUBIN-ALEKSOSKA A.; GVEROSKA B.; DIMITRIESKI M.; ALEKSOSKI J.	Scientific Tobacco Institute - Prilep, University of "St. Kliment Ohridski"-Bitola, Prilep, Republic of Macedonia
APPOST	14	550	Posters AP (Breeding & Genetics)	Testcross performance of new breeding lines of flue-cured tobacco for morphological and agronomic traits	BUDIMIR A.(1); ŠARČEVIĆ H.(2); KOZUMPLIK V.(2); PLEŠA Z.(1)	(1) Croatian Tobaccos Inc., Virovitica, Croatia; (2) University of Zagreb, Faculty of Agriculture, Zagreb, Croatia
APPOST	17	464	Posters AP (Breeding & Genetics)	Resistance to TMV (tobacco mosaic virus) and black shank (Phytophthora parasitica var. nicotianae) in some Oriental tobacco varieties and lines	DIMITRIESKI M.; MICESKA G.	Scientific Tobacco Institute - Prilep, University of "St. Kliment Ohridski"-Bitola, Prilep, Republic of Macedonia
APPOST	18	459	Posters AP (Breeding & Genetics)	Production and quality characteristics of some new Yaka tobacco varieties	MICESKA G.; DIMITRIESKI M.	Scientific Tobacco Institute - Prilep, University of "St. Kliment Ohridski"-Bitola, Prilep, Republic of Macedonia
APPOST	19	514	Posters AP (Breeding & Genetics)	Differential expression of pivotal genes involved in carbon and nitrogen metabolism pathways in climatic responses for different flue-cured tobacco cultivars	YANG Huijuan; HUANG Huagang; SHEN Yan; YU Qiwei; SHI Hongzhi	College of Tobacco Science, Henan Agricultural University, Key Laboratory of Tobacco Cultivation of China Tobacco Industry, Zhengzhou, P.R. China
APPOST	20	614	Posters AP (Breeding & Genetics)	Engineering resistance to TSWV (tomato spotted wilt virus)	GAO M.; ZAITLIN D.; <u>JACK A.M.</u>	University of Kentucky, Lexington, KY, U.S.A.
APPOST	21	531	Posters AP (Breeding & Genetics)	Recombination events in PVY genomes	PRZYBYS M.; DOROSZEWSKA T.	Institute of Soil Science and Plant Cultivation - State Research Institute, Pulawy, Poland
APPOST	22	536	Posters AP (Breeding & Genetics)	Effectiveness of combining potato virus Y tolerance and resistance determined by transgenes in tobacco	CZUBACKA A.; KORBECKA G.; OLSZAK-PRZYBYS H.; DOROSZEWSKA T.	Institute of Soil Science and Plant Cultivation - State Research Institute, Pulawy, Poland
APPOST	23	540	Posters AP (Breeding & Genetics)	Study on GCN2 and AZI involved in plant priming	ZHANG Songtao; ZHANG Kangxu; WANG Yeqing; CUI Hong; YANG Yongxia; JIA Hongfang; ZHANG Hongying	Henan Agricultural University, College of Tobacco Science, Tobacco Cultivation Key Laboratory of China Tobacco, Zhengzhou, P.R. China
APPOST	24	541	Posters AP (Breeding & Genetics)	Cloning and characterisation of two members of the DanJ subfamily, NtDanJs, from Nicotiana tabacum	WANG Jing; YANG Huijuan; SHI Hongzhi; LIU Guoshun	Henan Agricultural University, College of Tobacco Science, Tobacco Cultivation Key Laboratory of China Tobacco, Zhengzhou, P.R. China
APPOST	25	529	Posters AP (Diseases)	Tobacco diseases in transplant production in Croatia	COSIC J.(1); VRANDECIC K.(1); JURKOVIC D.(1); BUDIMIR A.(2); PLEŠA Z.(2); ZDELICAN J.(2)	(1) J.J. Strossmayer University, Faculty of Agriculture in Osijek, Osijek, Croatia; (2) Hrvatski duhani d.d. Virovitica, Virovitica, Croatia
APPOST	26	495	Posters AP (Diseases)	Di@gnoplant® Tobacco: a mobile tool to identify tobacco diseases	BLANCARD D.(1); ARMAND J.M.(1); <u>MARIGNAC E.</u> (2)	(1) INRA, UMR Santé et Agroécologie de la Vigne, ISVV - IFR103, Villenave-d'Ornon, France; (2) CORESTA, Paris, France
APPOST	27	488	Posters AP (Diseases)	Application of probiotics in tobacco production - possibility for protection against damping-off disease on tobacco seedlings	GVEROSKA B.; MICESKA G.; DIMITRIESKI M.; KORUBIN-ALEKSOSKA A.	Scientific Tobacco Institute - Prilep, University of "St. Kliment Ohridski"-Bitola, Prilep, Republic of Macedonia
APPOST	33	561	Posters AP (Insects & Nematodes)	Fauna of hoverflies (Diptera: Syrphidae) in tobacco biocenosis	KRSTESKA V.	UKLO Scientific Tobacco Institute-Prilep, Prilep, Republic of Macedonia
APPOST	34	526	Posters AP (Misc)	Isolation of a nicotine degradation bacterium strain and its application in tobacco stalk organic fertiliser composting fermentation	WANG Rui(1); SHI Heli(1); CHEN Shouwen(2)	(1) Enshi Tobacco Company of Hubei Province of CNTC, No. 119 Shizhou Road, Enshi, 44500 Hubei, P.R. China (2) Hubei University, No. 368 Friendship Road, Wuchang District, Wuhan, 430011 Hubei, P.R. China
APPOST	35	549	Posters AP (Misc)	Regulating effects of calcium salts on the photosynthetic carbon assimilation and accumulation of photosynthetic products in flue-cured tobacco under different light circumstances	YUN Fei; LIU Guoshun; SONG Jing; WANG Hui; ZHANG Jun; GUO Chaochao	Henan Agricultural University, College of Tobacco Science, National Tobacco Cultivation and Physiology and Biochemistry Research Center, Zhengzhou, P.R. China
APPOST	36	447	Posters AP (Misc)	Carbon footprint of Oriental variety Katerini 53	KARAMANLIS K.	Postgraduate Quality Assurance Course, School of Science and Technology, Hellenic Open University, Patra, Greece
APPOST	37	474	Posters AP (Misc)	Extraction of volatile flavour compounds from tobacco leaf in a low-density polyethylene membrane	YOKOI M.(1); SHIMODA M.(2)	(1) Japan Tobacco Inc., Tobacco Science Research Center, Yokohama, Kanagawa, Japan; (2) Kyushu University, Fukuoka, Japan
APPOST	38	640	Posters AP (Misc)	The process of CORESTA cooperation	COLARD S.(1); <u>GUITTON P.M.</u> (2)	(1) SEITA, Imperial Tobacco Group, Fleury-les-Aubrais, France; (2) CORESTA, Paris, France



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APPOST	39	<small>542</small>	Posters AP (Misc)	Effect of biochar amount on tobacco-planted soil carbon pool and quality of flue-cured tobacco leaves	YE Xie-feng(1); LI Zhi-peng(1); YU Xiao-na(1); NIU Yu-de(2); LI Xian-feng(2); GUAN Sai-sai(1); ZONG Sheng-jie(1); MENG Qi(1)	(1) Henan Agricultural University, National Tobacco Cultivation and Physiology and Biochemistry Research Centre, Key Laboratory for Tobacco Cultivation of Tobacco Industry, Tobacco Science College of Henan Agricultural University, Zhengzhou, P.R. China; (2) Hanzhong Tobacco Company of Shanxi, Hanzhong, P.R. China

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