

POSTERS OF BIOLOGY COMMISSION

WEDNESDAY

Mitochondrial dna analysis of apis mellifera populations from northern region of argentina	AGRA Marcelo	tiruggi@infovia.com.ar	Silvia Lanzavecchia, Claudia Conte, Pablo Corva, Jorge Cladera, Maria Alejandra Palacio	Argentina	1
A new technique for producing a higher number of queens in stingless bees (meliponini)	ALEIXOKátia Paula	menezes.cristiano@gmail.com	Cristiano Menezes, Vera Lucia Imperatriz Fonseca	Brazil	2
Dependence of source protein consumption on activity of hypopharyngeal gland in the honey bee (apis mellifera).	ALI FORGHAN IMohammad	forghanima@gmail.com	Fahimeh Amir Saifadini	Iran	3
Quantification of the pheromone 9-oda and 9-hda in queens of africanized and european honey bees during the absconding process	ALMEIDA Gesline F.	lsgoncal@usp.br	Andrea r. Chaves, Lionel Segui Gonçalves, Maria Eugenia c. Queiroz, David De jong	Brazil	4
Influence of the weight at emergence of africanized honey bee queens (apis mellifera l.) In colonies development	ALMEIDA DE SOUZA Daiana	lsgoncal@usp.br	Tiago Mauricio, Francoy Lionel, Segui Gonçalves	Brazil	5
Mineral content in honey from futaleufu district, this area was affected by the eruption of the chaiten volcano (chile)	BAHAMONDE Patricia	lclasing@sumet.cl	Carolina Oyarzún, Carolina Fuenzalida, Miguel Neira, Nimia Manquían	Chile	6
Genetic divergence of apis mellifera meda from turkey and iran using pcr-rflp analysis of mtDNA genome	BALCIOGLU Soner	fulyaozdil@selcuk.edu.tr	Fulya Özdil, Cengiz Erkan, M. Muhip Özkan	Turkey	7
Genome-wide identification of transcriptional start sites (tss) in genome of apis mellifera by 5 ₁ long sage	BAO-HUA Xu	bhxu@sdau.edu.cn	Liang-Xian Sun, Hua-Jun Zheng	China	8
Life time of africanized honeybees apis mellifera linnaeus, 1758 (hymenoptera: apidae) fed by diets with citric acid and lemon juice	BRIGHENTI Deodoro	cfcarvalho@ufla.br	César Carvalho, Carla Brighenti, Stephan Carvalho	Brazil	9
Survival of africanized honeybee apis mellifera linnaeus, 1758 (hymenoptera: apidae) rearing with energetic and protein diets	BRIGHENTI Deodoro	cfcarvalho@ufla.br	César Carvalho, Carla Brighenti, Stephan Carvalho	Brazil	10
Superior protein conversion of natural and artificial diets by africanized honey bees	CAPPELARI Fabricio Aloar	ddjong@fmrp.usp.br	David De Jong, Aline Patricia Turcatto, Michelle Manfrini Morais, Lionel S. Gonçalves	Brazil	11
The elaboration of specific norms used in honeybee colonies breeding program in republic of moldova.	CEBOTARI Vientina	valentinaceb@yahoo.com		Moldavia	12
Civilized and harmonious honeybee society	CHEN Yuan	flhu@zju.edu.cn		China	13
Influence of behavioral ontogeny on hygienic behavior of africanized honey bees (apis mellifera l.)	DE ANDRADE BUGALHO Vanessa	lsgoncal@usp.br	Lonel Segui Gonçalves	Brazil	14
MtDNA variations of apis cerana in qinling mountains of china	DING Guiling	guilingding@163.com	Wei shi, liping lv, Zhiguang liu	China	15
Diversity of aerobic bacteria associated with midgut of thai farm bees	DISAYATHANOOWAT Terd	panuwan@gmail.com	Phumpuang Nokhong, Panuwan Chantawannakul	Thailand	16
Morpho-metric characteristics of honey bees from republic of moldova	EREMIA Nicolae	eremianicolai@rambler.ru	Lulia Mihailova, Tatiana Dabija	Republic of Moldova	17
Flight muscle differential development of the eusocial bees, apis mellifera and scaptotrigona postica (hymenoptera: apidae) colonies	FERNANDEZ WINCKLER Fernanda	fernanda-winckler@hotmail.com	Carmina Da, Cruz-Landim	Brazil	18
The study influence of feeding with different levels vitamin c on the rate of brood rearing and honey production in apis mellifera honey bee colonies	FORGHANI Mohammad Ali	forghanima@gmail.com	Ali Esmailzadeh Koshkoghi	Iran	19
Genetic diversity of the honey bee population from corsica and its genetic relationships with continental populations.	GARNERY Lionel	garnery@legs.cnrs-gif.fr	Agnes Rortais, Isabelle Giraud, Hélène Legout, Gérard Arnold	France	20
A degree of dependence between the surface of brood and honey in autumn and the surface of brood in spring	GEORGIJEV Aneta	anetag@nadlanu.com	Mica Mladenovic	Serbia	21
Discrimination of three honeybee subspecies based on forewing venation	GERULA Dariusz	dariusz.gerula@man.pulawy.pl	Pawel Wegrzynowicz, Adam Tofilski, Beata Panasiuk, Malgorzata Bienkowska	Poland	22
Analysis of royal jelly proteome of two kinds honeybee	GUO Zhan-bao	apis96@gmail.com		China	23
Relationships between colony development characteristics in bombus terrestris	GUREL Fehmi	fgurel@akdeniz.edu.tr	Ayhan Gosterit	Turkey	24
Robustness of group decisions in honeybees	HAHSHOLD Sibylle	karl.crailsheim@uni-graz.at	Gerald Radspieler, Ronald Thenius, Thomas Schmickl, Karl Crailsheim	Austria	25
Pollen collection by bees under different brood colony conditions	HARIZANIS Paschalis	melissa@aua.gr	Manolis Rousiakis, Dimitris Lazarakis, Eleftherios Alissandrakis	Greece	26
Artificial feeding of honeybee colonies (apis mellifera l.)	HASSAN HUSSEIN Moustafa	mhussn_12@yahoo.com		Egypt	27

High-throughput sequencing of honeybee (<i>apis mellifera</i>) short mas using the solid analyzer	HU	fihu@zju.edu.cn	Xuan CHEN, Xiao-Min YU, Gui-Ming LIU, Huo-Qing ZHENG, Dong-Liang, YU Song-Nian HU	China	28
Manipulation of forager honeybees <i>apis mellifera</i> l. Outside the beehive	IFANTIDI Michael D. S	Alexandros.Papachristoforou@legs.cnrs-gif.fr		Greece	29
Running away of bee colony from the hole on the bottom of the hive	ILIC SES Dragoslav	dragoslav.ses@gmail.com		Serbia	30
Are ukrainian bees a separate race?	ILYASOV R.	alex-kom@nucs.kiev.ua		Ukraine	31
Genetic variability in honey bee populations from bulgaria	IVANOVA Evgeniya	geneiv@uni-plovdiv.bg	Maria Bouga	Bulgaria	32
Geometric morphometric approach to subspecies discrimination in honey bees (<i>apis mellifera</i>)	KANDEMIR Irfan	ikandemir@gmail.com	Ayca Ozkan, Stefan Fuchs	Turkey	33
Persian honey bees (<i>apis mellifera meda</i>) belong to c-mtdna lineage inferred from coi-coii dra i restriction and nd2 dna sequencing	KANDEMIR Irfan	ikandemir@gmail.com	Marina D. Meixner, Mohammed G. Moradi, W. Steve Sheppard	Turkey	34
Full length cdna sequence and expression of alpha-glucosidase iii in giant honeybee <i>apis dorsata</i>	KILASO Manlika	cchanchao@hotmail.com	Chanpen Chanchao	Thailand	35
Overwintering food consumption on the testing apiary in republic of macedonia	KIPRIJANOVSKA Hrisula	uzunov@zf.ukim.edu.mk	Aleksandar Uzunov, Sreten Andonov	FYROM	36
The form	LAURINO Daniela	daniela.laurino@unito.it	Augusto Patetta, Aulo Manino, Marco Porporato	Italia	37
Exploring the invisible and inaudible world of honeybees	LEFEBVRE Myriam	jmartin@bourges.univ-orleans.fr	Laurence Josserand, Cyril Novales, Jean-Pierre Martin	France	38
Prospects for consciousness in honeybees	LEFEBVRE Myriam	myriam.lefebvre@gmail.com		Belgique	39
Expression of apalbumin 5 of <i>apis cerana</i> in the larvae of silkworm, <i>bombyx mori</i>	LIU Fang	susongkun@zju.edu.cn	Yungen Miao, Wangfu Yue, Ting Tao, Shenglu Chen, Songkun Su	China	40
Multivariate morphometric analysis of <i>apis mellifera</i> in yili river valley of xinjiang	LIU Zhiguang	liuzhiguang186@yahoo.com.cn	Wei Shi, Guiling Ding, Liping Lv	China	41
Identificaton of 26 <i>apis mellifera</i> subspecies and africanized honey bee through standard morphometry and geometric morphometrics of wings	LOPES GRASSI Marina	lsgoncal@usp.br	Tiago Mauricio, Francoy Lionel, Segui Gonçalves	Brazil	42
Molecular characterization and population structure of <i>apis mellifera</i> from algeria	LOUCIF-AYAD W.	wahloucif@yahoo.fr	Achou M., Aribi N., Soltani N., Gamery L.	Algeria	43
Modification of olfactory learning and memory induced by rna interference targeting á7 nicotinic acetylcholine subunit in the honeybee	LOUIS Thierry	gauthiem@cict.fr	Ahier Arnaud, Raymond-Delpech Valérie, Gauthier Monique	France	44
Enterobacterial micro-flora of perm region dark forest bees	LYAPUNOV Y. E.	kate@tentorium.ru	R. G. Khismatullin, R. Z. Kuzyaev	Russia	45
Differences in pollen foraging behavior of africanized <i>apis mellifera</i> and <i>apis mellifera carnica</i>	MAIA-SILVA Camila	ddjong@fmp.usp.br	Daiana Almeida De Souza, Michael Hmcir, David De Jong	Brazil	46
Comparison of some temporal parameters related to division of labor within hygienic and non-hygienic africanized honey bees (<i>apis mellifera</i>)	MichelleMANFRINI MORAIS	lsgoncal@usp.br	Vanessa de Andrade Bugalho, Tiago Mauricio Francoy, Rogério Aparecido Pereira, David De Jong, Lionel Segui Gonçalves	Brazil	47
Scanning electronic microscopy and bees from ouessant	MARTIN Jean-Pierre	jmartin@bourges.univ-orleans.fr		France	48
In vitro queens production for establishing new stingless bees colonies	MENEZES Cristiano	menezes.cristiano@gmail.com	Vera Lucia Imperatriz Fonseca	Brazil	49
The variation of morphometric traits of authentic honeybee race of kosovo pomoravlje area	MLADENOVIC Mica	valentinavh@neobee.net	Valentina Simeonova	Serbia	50
Climate change and apiculture: impacts on wellbeing and survival of bee colonies	NANETTI Antonio	antonio.nanetti@entecra.it	Vittorio Marletto, Claudia Garrido	Italy	51
Morphological characteristics of certain lines of honey bee in serbia	NEDIC Nebojsa	nedicn@agrifaculty.bg.ac.yu	Mica Mladenovic, Ljubisa Stanislavjevic, Goran Jevtic	Serbia	52
Fos-like immunoreactivity mapping in the <i>apis mellifera</i> brain	NOCELL Roberta C. F.I	roberta@cca.ufscar.br	Thaisa C. Roat, Elaine C. M. Silva-Zacarin, Taigo F. Souza, Mario S. Palma, Osmar Malaspina	Brazil	53
Genetic diversity of <i>apis mellifera caucasica</i> and <i>apis mellifera anatoliaca</i> reared in turkey as assessed by pcr-rflp of an anonymous nuclear dna locus	ÖZDIL Fulya	fulyaozdil@selcuk.edu.tr	Hasan Meydan, Mehmet Ali Yildiz	Turkey	54
Geometric morphometric analysis of honey bee (<i>apis mellifera</i> l.) Subspecies distributed in turkey	OZKAN Ayca	ikandemir@gmail.com	Irfan Kandemir	Turkey	55
Testing honey bees for hygienic behaviour	PANASIUK Beata	beata.panasiuk@man.pulawy.pl	Malgorzata Bienkowska, Dariusz Gerula	Poland	56
Morpho-ethological and biochemical-genetic characteristics of the local bulgarian honey bee <i>apis mellifera rodopica</i>	PETROV Plamen	info@nrap-bg.org	Evgeniya Ivanova	Romania	57
Wintering of bee colonies in south baëka part of serbia	PIHLER Ivan	iphler@gmail.com	Mirjana Cinkulov, Mica Mladenovic	Serbia	58
Comparative analysis of spring development of some selection lines of honeybee in south and west serbia	RASI/E Slađan	rasa.rasic@gmail.com	Miæa Mladenoviæ, Aleksa BoZiekoviæ, Nebojsa Nediæ, Saša Milosavljeviæ	Serbia	59
Molecular diagnosis and phylogenetics of <i>lactobacillus</i> sp.	REDDY M.S.	jenureddy@yahoo.co.in	Mahesh pattabhramaiah, Dorothea Brueckner	India	60
Honeybees biomonitors of heavy metals in the air of an arid zone in northern mexico	REYES-CARRILLO Jose-Luis	jlreyes54@yahoo.com.mx	Rubi Muñoz-Soto, Elba Margarita Aguilar-Medrano, Ray Oscar Gallardo-Cruz	Mexico	61

Morpho-cytometric investigations on haemolymph collected from honeybees originated from south of romania	SAPCALIU Agripina	agripinasapcaliu@yahoo.com		Romania	62
Morphometrics study of bee colonies from nw of spain	SEIJO Maria Carmen	mcoello@uvigo.es	Escuderao Olga	Spain	63
Honeybees are able to forage with blocked olfactory input	SU Songkun	susongkun@zju.edu.cn	Yi Zhan, Fang Liu, Shenglu Chen, Jianhua Qian, Xuezhen Lin, Shaowu Zhang	China	64
Honey bee colony densities across forest types in the nilgiri biosphere reserve, western ghats, india	SUMIN George Thomas	sumin@keystone-foundation.org		India	65
Pheromone sensing of the antennal sensillae of apis florea foragers and guards by changing membrane potential analysis	SUWANNAPONG Guntima	guntima@buu.ac.th	Paitoon Seanbualuang	Thailand	66
Wing vein anomalies in breeding colonies	SZALAI-MATRAY Enikő	matray@katki.hu	Edit Zajác, Livia Harka, D. Szalai, L. Békési, T. Szalai	Hungary	67
Genetic diversity of hungarian honeybee colonies based on morphological and rapd markers	SZALAI-MATRAY, E.	matray@katki.hu	T. Révay, É. Török, N. Bodzsár, E. Zajác, L. Békési, A. Hidas	Hungary	68
The influence of group size on cooperative decision making in honeybees	SZOPEK Martina	karl.craillsheim@uni-graz.at	Gerald Radspieler, Ronald Thenius, Thomas Schmickl, Karl Craillsheim	Austria	69
Natural pollen diets and their effects on hemolymph protein levels in honey bees (hymenoptera: apidae)	VANAGAS Laura	lauravanagas@yahoo.com.ar	Basualdo M, Oliva M Rodriguez EM, Solana H Bedascasurre E	Argentina	70
Temperature monitoring of a bee colony during summer period	VECA Mauro	ilmieledielia@virgilio.it	Francesco Maria Tangorra	Italy	71
Effects of two kinds of pollen on colony development of the bumblebee bombus hypocrita p`rez (hymenoptera, apidae)	WU Jie	apis@vip.sina.com	Jiaxing Huang, Jiandong An, Jilian Li, Shudong Luo	China	72
More close genetic relationship of apis. Cerana population in the changbaishan mountain area of china potentially to those in south korea, north korea and japan	XINGAN Li	Lxingan@sina.com	Fengcheng Ge, Yungbo Xue, Zhiyong Li, Yanfang Li, Qingsheng Niu, Debin Yan	China	73
Honey bee digestive system disease testing	YEGANEHRAD Hossein	caspianapiaries@gmail.com	Maryam Moarefi	Canada	74
The role of protein in drone bee's semen production, natural mating and artificial insemination	YEGANEHRAD Hossein	caspianapiaries@gmail.com	Maryam Moarefi	Canada	75
Genetic differentiation of honeybee, apis mellifera l.	YGIN TUNCA Rahsan	rivgin@metu.edu.tr	Meral Kence	Turkey	76
Influencing factors of workers ovarian development in the honeybee apis mellifera l. Colonies	ZHAO Yazhou	zhaoyazhou0301@hotmail.com	Wenjun Peng	China	77
The effect of temperature on hind wing vein	ZHOU Bingfeng	bfymshj@pub3.fz.fj.cn	Zhu xiangjie, Li yue, Chen wenfeng, Zhang xing, Zhou yu, Chen yanhuang	China	78

POSTERS OF POLLINATION COMMISSION

WEDNESDAY

The most important nectar plants which supply highest amount of honey in Turkey	ALBAYRAK Sevinc	sevinc.albayrak@hacettepe.edu.tr	Kadriye sorkun	Turkey	79
Species diversity and colony characteristics of bumblebees in hebei region, china	AN Jiandong	anjiaandong@yahoo.com.cn	Jiaxing Huang, Jilian Li, Zhanbao Guo, Yueming Tong, Jie Wu	China	80
Botanical origin of venezuelan bee pollen from	BARTH Monika	vit@ula.ve	Alex Da Silva, Erika Oliveira, Juan Carmona, Patricia Vit	Brasil	81
Interaction between apis mellifera x baccharis dracunculifolia and its relation with green propolis production in Brazil	BASTOS Esther Margarida	embastos@funed.mg.gov.br	Rânia Mara Santana, André Gabriel Ferreira Calaça da Costa, Paula São-Thiago	Brasil	82
Melissopalynological characteristics of croatian sage (salvia officinalis l.) Honey	BUBALO Dragan	dbubalo@agr.hr	Ranata Peternel, Gordana Hegic, Lidija Svecnjak, Janja Kezic	Croatia	83
Experimental stations pollination	CASTRO SOTOS Alberto	info@apitecnic.com		Spain	84
Effect of cross pollination on the fruit quality of the apple tree	CHEFROUR Azzedine	azchefrou@yahoo.fr	Berrouk Houda, Draiaia Radia, Bouzebda Abd Errezak, Loucif Wahida	Algeria	85
Cross pollination and the quality of the citrus fruits	CHEFROUR Azzedine	azchefrou@yahoo.fr	Berrouk Houda, Draiaia Radia, Bouzebda Abd Errezak, Loucif Wahida	Algeria	86
Conservation of bumblebees, bombus latr. (apoidea, bombinae) depicted in stamps	CHMIELEWSKI Wit	wit.chmielewski@man.pulawy.pl		Poland	87
Studies on pollen gathering activity in relation to brood and honey storage in the colonies of apis cerana f. In diversified floral conditions	CHOWDE GOWDA Y.N.	nagaraja@bub.ernet.in	C. Chandrasekhara Reddy, N. Nagaraja	India	88
Diploid male production in a small and isolated population of brazilian stingless bee melipona scutellaris	DE ARAUJO ALVES Denise	daalves@ib.usp.br	Tiago Maurício Franco, Vera Lucia Imperatriz Fonseca, Pérsio de Souza Santos Filho, Tom Wenseleers	Brazil	89
Management of fallows to enhance flowers availability for honeybees	DECOURTYE Axel	axel.decourtye@acta.asso.fr	Jean-François Odoux, Sophie Cluzeau-Moulay	France	90

A preliminary work on the use of bee pollen loads as a method to study climatic change: comparison between melissopalynological and aerobiological pollen data with emphasis on olea europea	DIMOU Maria	mmsj@hotmail.com	Panagiotis Kougias, Vasilios Tsampardoukas, Vasileios Ziogas, Gerasimos Martzopoulos, Andreas Thrasyvoulou	Greece	91
The variety of melliferous sources of perm northern territory area and adjacent territories	DREBEZGINA E. S.	kate@tentorium.ru	R. G. Khismatullin, E. A. Elovikova, E. N. Zubova, Y. A. Lyapunov	Russia	92
Bee forage plants of saudi arabia	HUSSEIN Moustafa Hassan	mhussin_12@yahoo.com		Egypt	93
Biometrics, bee forage plants, pollen spectrum of honey and beekeeping in arab, african and asian countries	HUSSEIN Moustafa Hassan	mhussin_12@yahoo.com		Egypt	94
The potential for honey production at sunflower hybrids grown in south romania	ION Nicoleta	ionnicoleta2006@yahoo.com	Viorel ION, Razvan Coman, Grigore Fota	Romania	95
Comparative study of honey samples depicting the difference in important nectar yielding plants after a span of 15 years in bangalore, karnataka, india.	JAMES DEVAN Mary Scinthia	maryscinthia@rediffmail.com		India	96
Morpho-physiological flower characteristics of two salvia species in relation to honeybee attraction	MACUKANOVIC-JOCIC Marina	marmajo@eunet.yu	Zora Dajiæ Stevanoviæ, Sonja Duletiæ-Lauševizæ	Serbia	97
Floral origin and chemical characteristics of the honeybee pollen loads in western central france	MATEESCU C.	jean-francois.odoux@magneraud.inra.fr	Odoux JF, Feuillet D, Aupinel P, Lamy H, Moreau N, Spulber R	France	98
Contribution to the palynological study of some bee honey samples from yucatan	MAY-CANCHE Isabel	esauri@itmerida.mx	Rita Alfaro, Luis Cuevas-Glory, Alma Centurión-Yah, Enrique Sauri-Duch, Ana Burqos-Pérez	Mexico	99
The influence of honey bees in pollination and fertilization of sherry cv oblacinska	MLADENOVIC Mica	sasagubic@gmail.com	Radomirovic Marija	Serbia	100
Exploratory evaluation of the influence of honey bee colonies on brassica napus l.	NGUYEN Bach Kim	nguyen.b@fsagx.ac.be	Quievy Sam, Mignon Jacques	Belgium	101
Proposal of evaluation system for quantitative and qualitative parameters of bee pollen	NOZKOVA Janka	janka.nozkova@uniag.sk	Jan Brindza, Radovan Ostrovsky, Daniela Birova, Beata Stehlikova, Valerij Brovarskij	Slovakia	102
Palynology contribution in assessment of the beekeeping interest from flowering fallows	ODOUX Jean-François	jean-francois.odoux@magneraud.inra.fr	Lamy H., Loublier Y., Aupinel P, Decourtye A.	France	103
Influence of controlled pollination by bees on fruit set in apple	RADIVOJEVIC Dragan	dragan1970@agrif.bg.ac.rs	Nebojsa Nedic	Serbia	104
Madagascar: honeybee, bee flora and environment	RAMAMONJISOA RALALAHARISOA Zana.	lramamon@yahoo.fr			105
Investigations on the side effects of pyrrolizidine alkaloids on honey bees (apis mellifera l.) In feeding experiments	REINHARD Annika	martina.janke@laves.niedersachsen.de	Martina Janke, Werner von der Ohe, Peter Schreier, Till Beuerle	Germany	106
Pollen atlas of the comarca lagunera, mexico	REYES-CARRILLO Jose.Luis	jlreyes54@yahoo.com.mx	Pedro Cano-Rios, Rubi Muñoz-Soto, Frank A. Eischen, Eduardo Blanco Contreras	Mexico	107
Contribution and improving the agro-environmental efficiency in agroforestry systems for honeybees (biodiversity useful) in agricultural environment.	RHONE Fanny	fanenvelo@gmail.com	Eric Maire, Virginie Britten, Alain Canet, Sylvie Guillaume, Gérard Briane, Fabien Liagre	France	108
Field application of trichoderma spp. On strawberry flowers using honeybees (apis mellifera linnaeus)	SACLANGAN Dan	sayotefries@hotmail.com	Luciana Villanueva, Lita M. Colting		109
Composition and properties of two unique honeys from the boreal coniferous forest zone	SALONEN Anneli	ansalone@cc.joensuu.fi	Riitta Julkunen-Tiitto	Finland	110
Floral constancy of uruguyan native bumblebees: bombus atratus and b. Bellicosus (hymenoptera, apidae)	SALVARREY Sheena	cirobee@gmail.com	Natalia Arbulo, Estela Santos, Ciro Invernizzi	Uruguay	111
Herbaceous cover plants	SOURISSEAU Agnès	asourisseau@gmail.com	Philippe Balandier	France	112
The influence of the anemophilous trees competition on of cherry orchards visit by red mason bee (osmia rufa l.)	TEPER Dariusz	dariusz.teper@man.pulawy.pl	Mieczyslaw Bilinski	Poland	113
Environmental biomonitoring with bees in parks and nature reserves in sicily	VICARI Domenico	domenico.vicari@izssicilia.it	M. Sole, A. Sutura, S. Vullo, V. Randazzo, M. D'Anna, V.Ferrantelli	Italy	114