

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **Aleksandar UZUNOV**

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Bvl. Aleksandar Makedonski b.b., 1000 Skopje, Republic of Macedonia
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Nationality Macedonian

Date of birth 10.12.1975

Gender Male

Work experience

Dates	01.01.2009 - present
Occupation or position held	Full Professor
Main activities and responsibilities	Lecturing undergraduate and postgraduate students and providing research in the field of honey bee biology Head of the Laboratories for Honey Bee Biology and Selection (FASF/UKIM)
Name and address of employer	University "Ss Cyril and Methodius" in Skopje, Faculty for Agricultural Sciences and Food, Blvd. Aleksandar Makedonski b.b., 1000 Skopje, Republic of Macedonia
Type of business or sector	Academic, Research, Education, Agriculture
Dates	17.05.2023 - present
Occupation or position held	Senior Advisor
Main activities and responsibilities	▪ Backbone scientist for the China Honeybee Genetic Improvement Programme (CHGIP)
Name and address of employer	Chinese Academy of Agricultural Sciences (CAAS), Institute of Apicultural Research (IAR), Bee Resources and Genetic Breeding, No.1 Beigou Xiangshan, Haidian District, Beijing, P.R. China
Type of business or sector	Research, Academic, Extension
Dates	05.01.2015 – 31.06.2021
Occupation or position held	Scientist
Main activities and responsibilities	▪ EU project "SMARTBEES", FP7/WP6, coordinator of breeding activities (2015-2018) ▪ European Commission project "Restructuring of the honey bee chain and Varroa resistance breeding & selection programme" (2018-2021)
Name and address of employer	Landesbetrieb Landwirtschaft Hessen - Bieneninstitut Kirchhain, Erlenstraße 9, 35274 Kirchhain, Germany
Type of business or sector	Research, Academic, Extension

Dates	01.08.2004 – 31.05.2008
Occupation or position held	Coordinator of Agricultural Investment Centre
Main activities and responsibilities	Coordination of centre concerning borrowers' technical support
Name and address of employer	International Fund for Agricultural Development (IFAD) Southern and Eastern Regions Rural Rehabilitation Project Agricultural Financial Support Project Establishing Client-financed Agricultural Advisory Services – IMI Via Paolo di Dono, 44, 00142 Rome, Italy
Type of business or sector	Financial support, Agriculture
Dates	01.03.2002 – 31.07.2004
Occupation or position held	Project Assistant
Main activities and responsibilities	Organisation of agricultural study tours and educational events
Name and address of employer	German Technical Cooperation (GTZ) GmbH Dag-Hammarskjöld-Weg 1-5 65760 Eschborn, Germany
Type of business or sector	Technical support, Agriculture
Education & training	
Dates	04.07.2008 – 23.01.2013
Title of qualification awarded	PhD, Diploma
Principal subjects/occupational skills covered	Thesis Title: "Biological and productive characteristics of autochthonous honey bee (<i>Apis mellifera macedonica</i>) on the territory of Republic of Macedonia"
Name and type of organisation providing education and training	University "Ss Cyril and Methodius" in Skopje, Faculty for Agricultural Sciences and Food, bul.Aleksandar Makedonski b.b., 1000 Skopje, Republic of Macedonia
Level in national or international classification	ISCED 7
Dates	01.06.2005 – 24.04.2007
Title of qualification awarded	Master of science, Diploma
Principal subjects/occupational skills covered	Thesis Title: "Diversity of honey bee (<i>Apis mellifera</i> L.) population on the territory of Republic of Macedonia"
Name and type of organisation providing education and training	University "Ss Cyril and Methodius" in Skopje, Faculty for Agricultural Sciences and Food, bul.Aleksandar Makedonski b.b., 1000 Skopje, Republic of Macedonia
Level in national or international classification	ISCED 6
Dates	01.06.1994 – 09.01.2002
Title of qualification awarded	Engineer of agriculture, Diploma
Principal subjects/occupational skills covered	Diploma Title: "Instrumental insemination of honey bee (<i>Apis mellifera</i> L.) queens", Engineer in animal breeding
Name and type of organisation providing education and training	University "Ss Cyril and Methodius" in Skopje, Agricultural Faculty, bul.Aleksandar Makedonski b.b., 1000 Skopje, Republic of Macedonia
Level in national or international classification	ISCED 6
Personal skills & competences	
Mother tongue(s) / Other language(s)	Macedonian / English, German, Serbo-Croatian
Organisational skills and competencies	Project and team management
Computer skills and competencies	Excellent command of Microsoft Office™ tools (Word™, Excel™, PowerPoint™, Access™, Project™), Adobe Professional and Corel. Good knowledge of SPSS.
Annexes	Annex 1 (List of publications, Annex 2 (List of participations and projects),), Annex 3 (List of trainings and scholarships), Annex 4 (List of mentorships)

SCIENTIFIC AND RESEARCH PAPERS WITH IMPACT FACTOR / PEER-REVIEWED

(First author):

1. **Uzunov A.**, Koeniger G., Scheiner R., Galea T., Koeniger N. (2025) ***Apis florea* in Malta! A short visit or a permanent stay?**, Taylor & Francis, Bee World (accepted), <http://doi.org/10.1080/0005772X.2025.2499756>
2. **Uzunov, A.**, Janashia, I., Chen, C., Costa, C., & Kovačić, M. (2025). **Rapid Brood Decapping for *Tropilaelaps mercedesae* Detection**. Taylor & Francis, Bee World, 1–6. <https://doi.org/10.1080/0005772X.2025.2483730>
3. **Uzunov, A.**, Janashia, I., Chen, C. et al. (2025) **A scientific note on ‘Rapid brood decapping’—a method for assessment of honey bee (*Apis mellifera*) brood infestation with *Tropilaelaps mercedesae***. Apidologie 56, 40 (2025). <https://doi.org/10.1007/s13592-025-01171-2>
4. **Uzunov, A.**, Galea, T., Chen, C., Cilia, G., Costa, C., & Mifsud, D. (2024) ***Apis florea* in Europe: first report of the dwarf honey bee in Malta**. Journal of Apicultural Research, 1–4. <https://doi.org/10.1080/00218839.2024.2386888>
5. Dimitrov, L., **Uzunov, A.***, Andonov, S., Costa, C., Meixner, M. D., Le Conte, Y., ... Büchler, R. (2024) **Economic aspects of honey bee queen breeding: insights from a European study**. Journal of Apicultural Research, 63(4), 813–821. <https://doi.org/10.1080/00218839.2024.2361944>
6. **Uzunov, A.**, Chen, C., Gabel, M., & Kovačić, M. (2024). **Queen ringing vs. queen caging for summer brood interruption**. Journal of Apicultural Research, 1–4. <https://doi.org/10.1080/00218839.2024.2354087>.
7. Costa, C*., & **Uzunov, A.*** (2024) **Back to the Fundamentals – BeeGuards, a Project on Resilient Beekeeping**. Taylor & Francis, Bee World, 1–3. <https://doi.org/10.1080/0005772X.2024.2350872>.
8. **Aleksandar Uzunov** & Chao Chen (2023) **Queen Ringing – An Alternative Method for Inducing Brood Interruption**, Taylor & Francis, Bee World, 100:3-4, 67-70, DOI: 10.1080/0005772X.2023.2263285.
9. **Aleksandar Uzunov**, Sreten Andonov, Bjørn Dahle, Marin Kovačić, Janez Prešern, Goran Aleksovski, Magdalena Jovanovska, Borce Pavlov, Zlatko Puškadija, Jakob Wegener, Egoitz Galartza, Ricarda Scheiner & Ralph Büchler (2023): **Standard methods for direct observation of honey bee (*Apis mellifera* L.) nuptial flights**, Journal of Apicultural Research, DOI: 10.1080/00218839.2023.2251201, ISI Impact factor (2022) 1,9.
10. Marin Kovacic*, **Aleksandar Uzunov***, Ivana Tlak Gajger, Marco Pietropaoli, Victoria Soroker, Nouredine Adjlane, Valerija Benko, Leonidas Charistos, Raffaele Dall'Olio, Giovanni Formato, Fani Hatjina, Valeria Malagnini, Fabrizio Freda, Asaf Otmi, Zlatko Puškadija, Claudio Villar and Ralph Büchler (2023) **Honey vs. Mite—A Trade-Off Strategy by Applying Summer Brood Interruption for Varroa destructor Control in the Mediterranean Region**, Insects 2023, 14, 751. <https://doi.org/10.3390/insects14090751>, ISI Impact factor (2022) 3,0.
11. **Aleksandar Uzunov**, David Mifsud, Thomas Galea, Simone Cutaiar Marion Zammit-Mangion and Marina Meixner (2023) **Development, behaviour, productivity, and health status of the native honey bee *Apis mellifera ruttneri* vs. the introduced *A. m. ligustica* in Malta**. Apidologie (2023) 54:34. <https://doi.org/10.1007/s13592-023-01008-w>. ISI Impact factor (2021) 3,323.
12. **Aleksandar Uzunov**, Sreten Andonov, Bjørn Dahle, Marin Kovačić, Janez Prešern, Goran Aleksovski, Filip Jaman, Magdalena Jovanovska, Borce Pavlov, Zlatko Puškadija, Jakob Wegener, Ralph Büchler (2023) **Evaluating the potential for mating control in honey bee breeding in three SE European countries (preliminary results)**, DOI: 10.3920/978-90-8686-940-4_606, Conference: World Congress on Genetics Applied to Livestock Production. Volume: Proceedings of 12th World Congress on Genetics Applied to Livestock Production (WCGALP), February 2023.
13. **Aleksandar Uzunov**, Pim Brascamp, Manuel Du, Piter Bijma, Ralph Buchler (2023) **Breeding Values in Honey Bees**, DOI: 10.1080/0005772X.2023.2166737, Bee World 100(1):9-14, February 2023.
14. **Aleksandar Uzunov**, Cecilia Costa, Marin Kovacic (2022) **Give Varroa a Chance**, Bee World, September 2022.
15. **Aleksandar Uzunov**, E. W. Brascamp, Manuel Du, Ralph Büchler (2022) **The Relevance of Mating Control for Successful Implementation of Honey Bee Breeding Programs**, Bee World, June 2022.
16. **Aleksandar Uzunov**, Sreten Andonov, Bjørn Dahle, Marin Kovačić, Janez Prešern, Goran Aleksovski, Filip Jaman, Magdalena Jovanovska, Borce Pavlov, Zlatko Puškadija, Jakob Wegener, Ralph Büchler (2022) **Evaluating the potential for mating control in honey bee breeding in three SE European countries (preliminary results)**, World Congress on Genetics Applied to Livestock Production - WCGALP, Rotterdam, Netherlands, 2 - 8 July, 2022.
17. **Aleksandar Uzunov**, E. W. Brascamp, Manuel Du, Ralph Büchler (2022) **Initiation and Implementation of Honey Bee Breeding Programs**, Bee World, February 2022, 99(2):50-55.

18. **Aleksandar Uzunov**, E. W. Brascamp, Ralph Büchler (2017) **The Basic Concept of Honey Bee Breeding Programs**. Bee World, 94.3, 2017.
 19. **Aleksandar Uzunov**, Marina D Meixner, Hrisula Kiprijanovska, Sreten Andonov, Aleš Gregorc, Evgeniya Ivanova, Maria Bouga, Petrit Dobi, Ralph Büchler, Roy Francis and Per Kryger (2014, Special Issue) **Genetic structure of *Apis mellifera macedonica* population based on microsatellite DNA polymorphism**. Journal of Apicultural Research, [10.3896/IBRA.1.53.2.10](https://doi.org/10.3896/IBRA.1.53.2.10), ISI Impact factor (2012) 1,926.
 20. **Aleksandar Uzunov**, Cecilia Costa, Beata Panasiuk, Marina Meixner, Per Kryger, Fani Hatjina, Maria Bouga, Sreten Andonov, Malgorzata Bienkowska, Yves Le Conte, Jerzy Wilde, Dariusz Gerula, Hrisula Kiprijanovska, Janja Filipi, Plamen Petrov, Lauri Ruottinen, Hermann Pechhacker, Stefan Berg, Winfried Dyrba, Evgeniya Ivanova and Ralph Büchler (2014, Special Issue) **Swarming, defensive and hygienic behaviour in honey bee colonies of different genetic origin in a pan-European experiment**. Journal of Apicultural Research, [10.3896/IBRA.1.53.2.06](https://doi.org/10.3896/IBRA.1.53.2.06). ISI Impact factor (2012) 1,926.
 21. **Aleksandar Uzunov**, Hrisula Kiprijanovska, Sreten Andonov, Mirce Naumovski and Aleš Gregorc (2009) **Morphological diversity and racial determination of the honey bee (*Apis mellifera* L.) population in the Republic of Macedonia**, Journal of Apicultural Research, [DOI10.3896/IBRA.1.48.3.08](https://doi.org/10.3896/IBRA.1.48.3.08), ISI Impact factor (2007) 0,746.
- (Coauthor):
1. Janashia, I., **Uzunov, A.**, Chen, C., Costa, C. & Cilia, G. **First Report on *Tropilaelaps mercedesae* Presence in Georgia: The Mite is Heading Westward!** Journal of Apicultural Science, 2024, Sciendo, vol. 0 no. 0, <https://doi.org/10.2478/jas-2024-0010>
 2. Rodríguez-León, D.S., **Uzunov, A.**, Costa, C. et al. **Deciphering the variation in cuticular hydrocarbon profiles of six European honey bee subspecies**. BMC Ecol Evo 24, 131 (2024). <https://doi.org/10.1186/s12862-024-02325-z>
 3. Büchler, R., Andonov, S., Bernstein, R., Bienefeld, K., Costa, C., Du, M., ... **Uzunov, A.**, Wilde, J. (2024). **Standard methods for rearing and selection of *Apis mellifera* queens 2.0**. Journal of Apicultural Research, 1–57. <https://doi.org/10.1080/00218839.2023.2295180>.
 4. Moškrič A, Pavlin A, Mole K, Marinč A, J, Opara A, Kovačič M, Puškadija Z, **Uzunov A**, Andonov S, Dahle B, Prešern J (2023), Cutting corners: **The impact of storage and DNA extraction on quality and quantity of DNA in honeybee (*Apis mellifera*) spermatheca**. Front. Physiol. 14:1139269. doi: 10.3389/fphys.2023.1139269, March 2023.
 5. Robert Brodschneider et al, **Aleksandar Uzunov** (2022) **Spatial clusters of *Varroa destructor* control strategies in Europe**, Journal of Pest Science, Springer, June 2022,
 6. Despina Popovska Stojanov, Lazo Dimitrov, Jiří Danihlík, **Aleksandar Uzunov**, Miroslav Golubovski, Sreten Andonov and Robert Brodschneider (2021) **Direct Economic Impact Assessment of Winter Honeybee Colony Losses in Three European Countries**, April 2021. Agriculture 11(5):398, DOI: 10.3390/agriculture11050398.
 7. Jamal Momeni et al., **Aleksandar Uzunov** (2021) **Authoritative subspecies diagnosis tool for European honey bees based on ancestry informative SNPs**, February 2021, BMC Genomics 22(1), DOI: 10.1186/s12864-021-07379-7.
 8. Fanny Mondet, Melanie Parejo, Marina D. Meixner, Cecilia Costa, Per Kryger, Sreten Andonov, Bertrand Servin, Benjamin Basso, Malgorzata Bienkowska, Gianluigi Bigio, Eliza Căuia, Valentina Cebotari, Bjorn Dahle, Marica Maja Dražić, Fani Hatjina, Marin Kovačič, Justinas Kretavicius, Ana S. Lima, Beata Panasiuk, M. Alice Pinto, **Aleksandar Uzunov**, Jerzy Wilde and Ralph Büchler. **Evaluation of Suppressed Mite Reproduction (SMR) Reveals Potential for *Varroa* Resistance in European Honey Bees (*Apis mellifera* L.)**. September 2020, Insects 11(9):595, DOI: 10.3390/insects11090595, ISI Impact Factor (2019) 2,220.
 9. Alison Gray , Nouredine Adjlane , Alireza Arab , Alexis Ballis , ValtersBrusbardis , Jean-Daniel Charrière , Robert Chlebo , Mary F. Coffey , Bram Cornelissen , CristinaAmaro da Costa , Bjørn Dahle , Jiří Danihlík , Marica Maja Dražić , Garth Evans , Mariia Fedoriak , Ivan Forsythe , Anna Gajda , Dirk C. de Graaf , Aleš Gregorc , Iliyana Ilieva , Jes Johannesen ,Lassi Kauko , Preben Kristiansen , Maritta Martikkala , Raquel Martín-Hernández , Carlos AurelioMedina-Flores , Franco Mutinelli , Solenn Patalano , Aivar Raudmets , Gilles San Martin , VictoriaSoroker , Jevrosima Stevanovic , **Aleksandar Uzunov** , Flemming Vejsnaes , Anthony Williams ,Marion Zammit-Mangion & Robert Brodschneider (2020): **Honey bee colony winter loss rates for 35 countries participating in the COLOSS survey for winter 2018–2019, and the effects of a new queen on the risk of colony winter loss**, Journal of Apicultural Research, DOI: 10.1080/00218839.2020.1797272, Open Access, August 2020, ISI Impact Factor (2019) 1.818.
 10. R. Buchler, **A. Uzunov**, M. Kovacic, J. Presern, M. Pietrapoli, F. Hatjina, B. Pavlov, L. Charistos, G. Formato, E. Galarza, D. Gerula, A. Gregorc, V. Malagnini, M. D. Meixner, N. Nedic, Z. Puskadija, J. Rivera-Gomes, M. G. Rogelj, M. I. Smadis Skerl, J. Vallon, D. Vojt, J. Wilde, A. Nanneti (2020) **Summer brood interruption as integrated management strategy for effective *Varroa* control in Europe**, DOI: 10.1080/00218839.2020.1793278, July 2020, Journal of Apicultural Research, ISI Impact Factor (2019) 1,818.

11. Marin Kovacic, Zlatko Puskadija, Maja Drazic, **Aleksandar Uzunov**, Marina Meixner, Ralph Buchler (2020) **Effects of selection and local adaptation on resilience and economic suitability in *Apis mellifera carnica***, DOI: 10.1007/s13592-020-00783-0, June 2020, Apidologie, ISI 5 year Impact Factor (2019) 2,444.
12. Sreten Andonov, Cecilia Costa, **Aleksandar Uzunov**, Patrizia Bergomi, Daniela Lourenco and Ignacy Misztal (2019) **Modeling honey yield, defensive and swarming behaviors of Italian honey bees (*Apis mellifera ligustica*) using linear-threshold approaches**, DOI: 10.1186/s12863-019-0776-2, BMC Genetics 20(1), December 2019, ISI 5 year Impact Factor (2018) 2,917.
13. Alison Gray, Robert Brodschneider, Nouredine Adjlane, Alexis Ballis, Valters Brusbardis, Jean-Daniel Charrière, Robert Chlebo, Mary F. Coffey, Bram Cornelissen, Cristina Amaro da Costa, Tamás Csáki, Bjørn Dahle, Jiří Danihlík, Marica Maja Dražić, Garth Evans, Mariia Fedoriak, Ivan Forsythe, Dirk C.de Graaf, Aleš Gregorc, Jes Johannesen, Lassi Kauko, Preben Kristiansen, Maritta Martikkala, Raquel Martín-Hernández, Carlos Aurelio Medina-Flores, Franco Mutinelli, Solenn Patalano, Plamen Petrov, Aivar Raudmets, Vladimir A. Ryzhikov, Noa Simon-Delso, Jevrosima Stevanovic, Grazyna Topolska, **Aleksandar Uzunov**, Flemming Vejsnæs, Anthony Williams, Marion Zammit-Mangion, Victoria Soroker. **Loss rates of honey bee colonies during winter 2017/18 in 36 countries participating in the COLOSS survey, including effects of forage sources**, Journal of Apicultural Research (accepted for publication April 2019).
14. Meixner D. M., **Uzunov A.** (2018) **Genotype-environment-interactions and the occurrence of honey bee diseases affect the survival of honey bee colonies – summary from a pan-European experiment** (Wechselwirkungen zwischen Genotyp und Umwelt und das Auftreten von Krankheiten beeinflussen das Überleben von Bienenvölkern – Zusammenfassung eines europaweiten Experiments), **Berliner und Münchener tierärztliche Wochenschrift**, Nov. 2018, DOI: 10.2376/0005-9366-18015, ISI Impact Factor (2017/2018) 0,699.
15. Kiprijanovska H., Lazarevska S., Golubovski M., **Uzunov A.** (2018) **First report on the presence of *Megaselia rufipes* (Meigen, 1804) and *Megaselia praeacuta* (Schmitz, 1919) in honey bee colonies in the Republic of Macedonia** (Comment and Notes), **Journal of Apicultural Research**, online 25 Oct 2018, ISI Impact factor (2017) 1,015.
16. Robert Brodschneider, Alison Gray, Nouredine Adjlane, Alexis Ballis, Valters Brusbardis, Jean-Daniel Charrière, Robert Chlebo, Mary F Coffey, Bjørn Dahle, Dirk C de Graaf, Marica Maja Dražić, Garth Evans, Mariia Fedoriak, Ivan Forsythe, Aleš Gregorc, Urszula Grzęda, Amots Hetzroni, Lassi Kauko, Preben Kristiansen, Maritta Martikkala, Raquel Martín-Hernández, Carlos Aurelio Medina-Flores, Franco Mutinelli, Aivar Raudmets, Vladimir A Ryzhikov, Noa Simon-Delso, Jevrosima Stevanovic, **Aleksandar Uzunov**, Flemming Vejsns, Saskia Wöhl, Marion Zammit-Mangion & Jiří Danihlík (2018) **Multi-country loss rates of honey bee colonies during winter 2016/2017 from the COLOSS survey**, Journal of Apicultural Research, 57:3, 452-457, DOI: 10.1080/00218839.2018.1460911, ISI Impact factor (2015) 2,086.
17. Büchler R., **Uzunov A.**, Selecting for Varroa Resistance in German Honey Bee, 93.2.2016.
18. Roy M Francis, Esmaeil Amiri, Marina D Meixner, Per Kryger, Anna Gajda, Sreten Andonov, **Aleksandar Uzunov**, Grazyna Topolska, Leonidas Charistos, Cecilia Costa, Stefan Berg, Malgorzata Bienkowska, Maria Bouga, Ralph Büchler, Winfried Dyrba, Fani Hatjina, Evgeniya Ivanova, Nikola Kezic, Seppo Korpela, Yves Le Conte, Beata Panasiuk, Hermann Pechhacker, George Tsoktouridis and Jerzy Wilde (2014, **Special Issue - Short note**) **Effect of genotype & environment on parasite and pathogen levels in one apiary - A case study**. Journal of Apicultural Research, [10.3896/IBRA 1.53.2.14](#), ISI Impact factor (2012) 1,926.
19. Marina D Meixner, Ralph Büchler, Cecilia Costa, Roy M Francis, Fani Hatjina, Per Kryger, **Aleksandar Uzunov** and Norman L Carreck (2014, Special Issue - Guest Editorial) **Honey bee genotype and the environment**. Journal of Apicultural Research, [10.3896/IBRA 1.53.2.01](#), ISI Impact factor (2012) 1,926.
20. Marina Doris Meixner, Roy Mathew Francis, Anna Gajda, Per Kryger, Sreten Andonov, **Aleksandar Uzunov**, Grazyna Topolska, Cecilia Costa, Esmaeil Amiri, Stefan Berg, Malgorzata Bienkowska, Maria Bouga, Ralph Büchler, Winfried Dyrba, Kalinka Gurgulova, Fani Hatjina, Evgeniya Ivanova, Mateja Janes, Nikola Kezic, Seppo Korpela, Yves Le Conte, Beata Panasiuk, Hermann Pechhacker, George Tsoktouridis, Giacomo Vaccari and Jerzy Wilde (2014, Special Issue) **Occurrence of parasites and pathogens in honey bee colonies used in a European genotype - environmental - interactions experiment**. Journal of Apicultural Research, [10.3896/IBRA 1.53.2.04](#), ISI Impact factor (2012) 1,926.
21. Fani Hatjina, Cecilia Costa, Ralph Büchler, **Aleksandar Uzunov**, Maja Drazic, Janja Filipi, Leonidas Charistos, Lauri Ruottinen, Sreten Andonov, Marina D Meixner, Malgorzata Bienkowska, Gerula Dariusz, Beata Panasiuk, Yves Le Conte, Jerzy Wilde, Stefan Berg, Maria Bouga, Winfried Dyrba, Hrisula Kiprijanovska, Seppo Korpela, Per Kryger, Marco Lodesani, Hermann Pechhacker, Plamen Petrov and Nikola Kezic (2014, Special Issue) **Population dynamics of European honey bee genotypes under different environmental conditions**. Journal of Apicultural Research, [10.3896/IBRA 1.53.2.05](#), ISI Impact factor (2012) 1,926.
22. Roy M Francis, Per Kryger, Marina Meixner, Maria Bouga, Evgeniya Ivanova, Sreten Andonov, Stefan Berg, Malgorzata Bienkowska, Ralph Büchler, Leonidas Charistos, Cecilia Costa, Winfried Dyrba, Fani Hatjina, Beata Panasiuk, Hermann Pechhacker, Nikola Kezić, Seppo Korpela, Yves Le Conte, **Aleksandar Uzunov** and Jerzy Wilde (2014, Special Issue) **The genetic origin of honey bee colonies used in the COLOSS Genotype-Environment Interactions Experiment: a comparison of methods**. Journal of Apicultural Research, [10.3896/IBRA 1.53.2.02](#), ISI Impact factor (2012) 1,926.
23. Ralph Büchler, Cecilia Costa, Fani Hatjina, Sreten Andonov, Marina D Meixner, Yves Le Conte, **Aleksandar Uzunov**, Stefan Berg, Malgorzata Bienkowska, Maria Bouga, Maja Drazic, Winfried Dyrba, Per Kryger, Beata Panasiuk, Hermann Pechhacker, Plamen Petrov, Nikola Kezić,

- Seppo Korpela and Jerzy Wilde (2014, Special Issue) **The influence of genetic origin and its interaction with environmental effects on the survival of *Apis mellifera* L. colonies in Europe**. Journal of Apicultural Research, [10.3896/IBRA.1.53.2.03](https://doi.org/10.3896/IBRA.1.53.2.03), ISI Impact factor (2012) 1,926.
24. Pihler I., Kiprijanovska H., Plavska N., Krajcinovic M., **Uzunov A.**, Kryger P., Nedic N. (2014) **Population-genetical characteristics of the bee population of Vojvodina**. Genetika 01/2014, 64(1):219-226, ISI Impact Factor (2012) 0.49.
 25. Ralph Büchler, Sreten Andonov, Kaspar Bienefeld, Cecilia Costa, Fani Hatjina, Nikola Kezic, Per Kryger, Marla Spivak, **Aleksandar Uzunov** and Jerzy Wilde. (2013) Standard methods for rearing and selection of *Apis mellifera* queens. In Dieterman, V., Ellis J. D., Neumann, P. (Eds) **The COLOSS BEEBOOK, Volume I: standard methods for *Apis mellifera* research**. Journal of Apicultural Research 51(5): <http://dx.doi.org/10.3896/IBRA.1.52.1.07>, ISI Impact factor (2011) 1.531.
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| Polish | Pszczelarstwo | 2015, March, 3 |
| Spanish | Journal Apicultura Ibérica | 2015, April, 4 |
| Spanish | Sustrai | 2015, July, 104 |
| Norwegian | Birøkteren | 2015. March, 103 |
| Albanian | Bleta | 2015, March, 31 |
| Serbian | Srpski Pcelar | 2015, April, 4 |
| Portuguese | O Apicultor | 2015, July, 7 |
| Czech | Moderni Vcelar | 2015, Zima, 6 |
61. Golubovski M., **Uzunov A.**, Kiprijanovska H., Andonov S. (2015) **Monitoring of honey bee colony losses in Republic of Macedonia**, COLOSS Workshop "Monitoring bee losses", 27-28 January 2015, Copenhagen, Denmark.

62. **Uzunov A., Buchler R. (2014) Brood removal method - positive effects on honey bee colony health and performance.** COLOSS Workshop "Varroa control strategies", 2-3 December, Bologna, Italy.
63. **Uzunov A., Buchler R. (2014) Potential of brood removal method for sustainable Varroa control,** 21-22 May 2014, Bled, Slovenija.
64. **Costa C., Uzunov A. et al. (2014) Is the trait "Varroa Sensitive Hygiene" present in European colonies?** 21-22 May 2014, Bled, Slovenija.
65. **Costa C., Uzunov A., Andonov S. et al. (2014) The influence of genetic origin and environment on the survival and performance of European honey bee colonies.** 6th EURBEE conference, 9 - 12 September, Murcia, Spain.
66. **Andonov S., Vukovic V., Uzunov A. (2014) Validation of Repeatability Models in Genetic Evaluation of Reproductive Traits in Pigs.** Proceedings, 10th World Congress of Genetics Applied to Livestock Production, 17 - 22 August, 2014, Vancouver, BC, Canada.
67. **Uzunov A., Buchler R., Pavlov B., Andonov S., Kiprijanovska H. Hochzeitsflug Frequenz-und Paarungserfolg der Honigbiene (*Apis mellifera* L.) Königin auf kleine Insel (Nuptial flight frequency and mating success of honey bee (*Apis mellifera* L.) queens on small size island),** 25 - 27 March 2014, Kirchhain, Germany.
68. **Uzunov A., Activities for conservation and improvement of *A. m. macedonica*,** Scientific-practical conference for beekeeping in Republic of Macedonia, 14th December 2103, Skopje, Macedonia
69. **Uzunov A., *A. m. macedonica* - colony development, ethology and tolerability to diseases in the conditions in Republic of Macedonia,** Scientific-practical conference for beekeeping in Republic of Macedonia, 14th December 2013, Skopje, Macedonia
70. **Uzunov A. Practical experience in commercial honey bee queens production by usage of different mating boxes.** Scientific-practical conference "Dalmatina", 16 and 17 November 2013, Split, Croatia
71. **Uzunov A. Contemporary approach in honey bee queen production - performance test and selection,** First scientific-practical conference for beekeeping, 2 and 3 November 2013, Banja Luka, Republika Srpska, Bosnia and Hercegovina
72. **Uzunov A., Kiprijanovska H., Andonov S., Gregorc A., Buchler R. Thymovar efficacy on *Varroa Destructor* under excessive summer conditions,** XXXXIII International Apicultural Congress – Apimondia 2013, 29 September – 04 October 2013, Kiev, Ukraine
73. **Uzunov A., Ilkov I., Kiprijanovska H. Initial activities for implementation of breeding program for improvement of native honey bee population (*Apis mellifera macedonica*) in the Republic of Macedonia,** XXXXIII International Apicultural Congress – Apimondia 2013, 29 September – 04 October 2013, Kiev, Ukraine
74. **Uzunov A., Büchler R. Colony performance, behavior and disease susceptibility of two genotypes from *Apis mellifera macedonica* population in the Republic of Macedonia,** 60th Annual Meeting of the Association of Institutes for Bee Research, Germany, 19th - 21st March, 2013 (Leistung, Verhalten und Krankheitsanfälligkeit zwei verschiedener *Apis mellifera macedonica* Genotypen in der Republik Mazedonien, 60. Jahrestagung der Arbeitsgemeinschaft der Institute für Bienenforschung, Würzburg, Deutschland, 19-21 März, 2013
75. **Uzunov A. Biological and Production Characteristics of the Macedonian Honey Bee (*Apis mellifera macedonica*) on the Territory of the Republic of Macedonia,** PhD thesis, Faculty for Agricultural Science and Food, Skopje, Macedonia, 23th of January, 2013
76. **Kiprijanovska H., Bandzo S., Gjamovski V., Kiprijanovski M., Uzunov A., Effect of Bumblebees (*Bombus terrestris* L.) pollination on fruit set of some apple cultivars,** International Symposium for Agriculture and Food, Faculty for Agricultural Science and Food, Skopje, Macedonia, 12th - 14th December, 2012
77. **Buchler R., Kezic N., Costa C., Panasiuk B., Bienefeld K., Andonov S., Uzunov A., Hatjina F., Bienkowska M., Wilde J., New breeding strategies - in order to protect the honey bee population ,** COLOSS WS, Palermo, Italy, 5th Nov - 9th Nov, 2012
78. **Kryger P., Uzunov A et al., Insight and outlook, from genes towards enviroment,** COLOSS WS, Palermo, Italy, 5th Nov- 9th Nov, 2012
79. **Costa C., Büchler R., Berg S., Bienkowska M., Bouga M., Bubalo D., Charistos L., Le Conte Y., Drazic M., Dyrba W., Fillipi J., Hatjina F., Ivanova E., Kezic N., Kiprijanovska H., Kokinis M., Korpela S., Kryger P., Lodesani M., Meixner M., Panasiuk B., Pechhacker H., Petrov P., Oliveri E., Ruottinen L., Uzunov A., Vaccari G., Wilde J., Results of the Europe-wide genotype – environment interactions experiment,** COLOSS MC meeting, Halle-Saale, Germany, 31st August - 1st September, 2012
80. **Uzunov A., Büchler R., Kiprijanovska H., Andonov S., Observations on queen mating behaviour on a small island,** SICAMM conference, Landquart, Switzerland, 31st August to 4th September 2012
81. **Büchler R., Berg S., Bienkowska M., Panasiuk B., Le Conte Y., Costa C., Dyrba W., Bouga M., Hatjina F., Charistos L., Petrov P., Ivanova E., Kezic N., Korpela S., Kryger P., Pechhacker H., Uzunov A., Wilde J., Effects of genotype and environmental factors on the survivability and productivity of European honey bee colonies,** SICAMM conference, Landquart, Switzerland, 31st August to 4th September 2012
82. **Kiprijanovska H., Andonov S., Büchler R., Drazic M., Hatjina F., Kezic N., Panasiuk B., Le Conte Y., Uzunov A., Wilde J., Assessment of the behavioural traits in the international GEI experiment of COLOSS WG4,** Workshop WG4 "Honey bee vitality and diversity –Behavioral traits: Final results and paper preparing", 15th-17th May 2012, Ohrid, Macedonia
83. **Uzunov A., Kiprijanovska H., Andonov S., Gregorc A., Initial activities for preserving native honey bee population (*Apis mellifera macedonica*) in Republic of Macedonia,** International Symposium about Carniolan Honeybee, 16 March, 2012, Celje, Slovenia
84. **Uzunov A., Kiprijanovska H., Andonov S., Buchler R., Thymovar efficiency on *Varroa destructor* under excessive summer condition in South-Eastern Europe,** ApiEcoTech Apimondia Symposium, 18-19 February 2012, Belgrade, Serbia
85. **Uzunov A., Bienkowska M., Buchler R., Charistos L., Hatjina F., Kezic N., Panasiuk B., Analysis of honey bee ethology respond as a consequence of genotype-environment interaction in the international experiment of COLOSS WG 4,** Workshop WG4 "Bee Book and data analyses of GEI experiment" - Jokioinen, Finland, January 23th -27th, 2012
86. **Uzunov A., Kiprijanovska H., Andonov S., Buchler R., Thymovar efficiency on *Varroa destructor* under excessive summer condition in South-Eastern Europe,** Research report, 2011.
87. **Büchler R., Meixner D.M., Berg S., Bienkowska M., Panasiuk B., Le Conte Y., Costa C., Dyrba W., Hatjina F., Charistos L., Ivanova E., Petrov P., Kezic N., Korpela S., Kryger P., Pechhacker H., Uzunov A., Wilde J., Preliminary results of the international genotype-environment interaction experiment of WG 4,** 7th COLOSS (Prevention of honeybee COLony LOSSes) Conference/MC meeting - Belgrade, Serbia, August 27th -28th, 2011
88. **Meixner M., Berg S., Bienkowska M., Bouga M., Büchler R., Le Conte Y., Costa C., Dyrba W., Hatjina F., Ivanova E., Kezic N., Korpela S., Kryger P., Panasiuk B., Pechhacker H., Petrov P., Uzunov A., Wilde J., Effects of genotype and environment for disease relevance –**

preliminary results from the genotype-environment experiment of WG4, Workshop WG(2+4) "Diagnostic Surveys" - Belgrade, Serbia, August 25th -26th, 2011

89. **Uzunov A.**, Kiprijanovska H., Andonov S., Macedonian honey bee (*Apis mellifera macedonica*), Serbia, Pcelarski zurnal, No. 11, 2011
90. Büchler R., Berg S., Bienkowska M., Panasiuk B., Le Conte y., Costa C., Dyrba W., Hatjina F., Charistos L., Ivanova E., Petrov P., Kezic N., Korpela S., Kryger P., Pechhacker H., **Uzunov A.**, Wilde J., **First results of the international genotype-environment interaction experiment, COLOSS Workshop Honey bee vitality and diversity** - status of the GEI experiment and the subspecies discrimination methods comparison - Plovdiv, Bulgaria, March 01-03, 2011
91. **Uzunov A.**, Kiprijanovska H., Petrovski I., Dodevski I., Andonov S., Analysis of Varroa mite population development in relationship with brood area, bee population and initial infestation level in experimental honey bee colonies, COLOSS Workshop Honey bee vitality and diversity - status of the GEI experiment and the subspecies discrimination methods comparison - Plovdiv, Bulgaria, March 01-03, 2011
92. Kiprijanovska H., **Uzunov A.**, National beekeeping breeding program in Republic of Macedonia, Ministry for Agriculture, Forestry and Water economy of Republic of Macedonia, 2010
93. **Uzunov A.**, Dimitrov., Jones I., IFAD & client-financed agricultural advisory services, - International Fund for Agricultural Development Report, 2010
94. **Uzunov A.**, Kiprijanovska H., Petrovski I., Dodevski I., Andonov S., Analysis of Varroa mite population development in relationship with brood area, bee population and initial infestation level in experimental honey bee colonies, COLOSS Workshop Honey bee vitality and diversity - status of the GEI experiment and the subspecies discrimination methods comparison - Plovdiv, Bulgaria, March 01-03, 2011
95. Andonov S., Vukovic V., **Uzunov, A.**, Genetic parameters for reproductive traits and number of teats in pigs. 9th WCGALP, Leipzig Germany, 2010
96. **Uzunov A.**, Kiprijanovska H., Good Beekeeping Practice manual – MAASP and Faculty for Agricultural Sciences and Food – Skopje (ISBN 978-9989-845-41-3), 2010
97. **Uzunov A.**, Andonov S., Kiprijanovska H., Winter losses of honey bee colonies in Republic of Macedonia, 6th COLOSS Conference, Hacettepe University, Ankara, Turkey, 2010
98. Costa C., Büchler R., Meixner M., Bienkowska M., Panasiuk B., Hatjina F., Leonidas C., Michalis K., Ivanova E., Petrov P., Kezic N., Drazic M., Korpela S., **Uzunov A.**, Wilde J., Ongoing evaluations of the Coloss WG 4 genotype-environment interaction experiment, 6th COLOSS Conference, Hacettepe University, Ankara, Turkey, 2010
99. **Uzunov A.**, Kiprijanovska H., Andonov S., Evaluation of honey bee colonies; survival rate according to their different level of infestation with *Varroa destructor*, 4th European conference of apidology, Ankara, Turkey, 2010
100. Meixner D. M., Bouga M., Kryger P., **Uzunov A.**, Ivanova N. E., Assessing genetic variability of honey bee origins used in the GEI experiment, 6th COLOSS Conference, Hacettepe University, Ankara, Turkey, 2010
101. **Uzunov A.**, Kiprijanovska H., Andonov S.: Common European Performance Test Protocol for honey bee, Serbia, Pcelarski zurnal, No. 7, 2010
102. **Uzunov A.**, Kiprijanovska H., Andonov S., Relationship between Varroa mite Infestation levels and honey bee colonies survival rate, COLOSS Work Shop "Standardised protocols for honey bee vitality and diversity" Agricultural Univ. of Athens, Greece 26-27. 02. 2010
103. **Uzunov A.**, Andonov S., Kiprijanovska H., Les pertes de colonies dans la Republique de Macedoine, Buletin Technique Apicole, N° 146 Vol.36 (2), 2010
104. **Uzunov A.**, Kiprijanovska H., Sokolov, B.: Overwintering food consumption, Serbia, Pcelar No.11, Belgrade 2009
105. **Uzunov A.**, Kiprijanovska H., Andonov S., Assessment of the honey bee colony losses in Republic of Macedonia for the winter season 2007/2008. Apimondia 2009 - Montpellier, France, September 2009
106. Kiprijanovska H., **Uzunov A.**, Andonov S. 2009 Overwintering food consumption on the testing apiary in Republic of Macedonia. Apimondia 2009 - Montpellier, France, September 2009
107. **Uzunov A.**, Kiprijanovska H., Gjurovski S. 2009. Establishment of the National beekeeping breeding program in Republic of Macedonia. Apimondia 2009 - Montpellier, France, September 2009
108. **Uzunov A.**, Kiprijanovska H., Andonov S. 2009. Diversity of honey bees (*Apis mellifera L.*) on the territory of Republic of Macedonia, 5th COLOSS Conference –Montpellier, France, 14-15 September 2009
109. Büchler R., Heidinger I., Meixner M., Bienkowska M., Panasiuk B., Le Conte Y., Crauser D., Costa C., Hatjina F., Kence M., Kezic N., Korpela S., Kryger P., Murihas A., **Uzunov A.**, Wilde J., European test on genotype - environment interactions, 5th COLOSS Conference –Montpellier, France, 14-15 September 2009
110. **Uzunov A.**, Kiprijanovska H., Andonov S. 2009. Testing and evaluation of biological and productive characteristics of the honey bee population in Republic of Macedonia, COLOSS Workshop Standardization of Methods for Vitality Test - Island of Unije, Croatia, May 25-28, 2009
111. **Uzunov A.**, Andonov S., Kiprijanovska H. 2009 Colony losses in the Republic of Macedonia, 4th COLOSS Conference – Zagreb, Croatia, 3-4 March 2009
112. **Uzunov A.**, 2007. Honey bee (*Apis mellifera L.*) diversity on the territory of Republic of Macedonia, M.Sc. thesis, Faculty for Agricultural Sciences and Food – Skopje, Republic of Macedonia
113. **Uzunov A.**, Dimitrov L., Cadikovska L., Petkovski V., Kiprijanovska H., Petrovska B.: Lending for Macedonian beekeeping development, Second European conference of apidology, Prague, 2006
114. **Uzunov A.**, Kiprijanovska H., Dzimrevska I. 2005. Current Situation in the Macedonian Apiculture, Book of Abstracts, Apimondia, - International Conference on Apiculture, Dublin Ireland, 2005.
115. Dzimrevska I., Kiprijanovska H., **Uzunov A.** 2005. Bee products - marketing, trends and perspectives in The Republic of Macedonia, Book of Abstracts, Apimondia - International Conference on Apiculture, Dublin Ireland, 2005
116. **Uzunov A.** Beekeeping in the region of Mavrovo, Melitagora No.53, Skopje, Macedonia, 2004
117. Kiprijanovska H., **Uzunov A.**, Dzimrevska I., Small hive beetle, Livestock magazine No. 2, Skopje, Macedonia, 2004
118. Kiprijanovska H., **Uzunov A.**, Dzimrevska I., Morphology of small hive beetle (*Aethina tumida*), Melitagora No.51, Skopje, Macedonia, 2004
119. **Uzunov A.**, Kiprijanovska H., Unije island mating station, Nektar No.3, Skopje, Macedonia, 2003

120. **Uzunov A.**, Veljanovski V., Cubital Index of the honey bee (*Apis mellifera* L.) population from region of Skopje, Proceedings from 25th congress for students of agricultural sciences, Novi Sad, Serbia, 2001
121. **Uzunov A.**, Inbreeding depression and heterosis effect, Melitagora journal No.47, Skopje, Macedonia, 2001
122. **Uzunov A.**, Characteristics for selection of honey bees, Melitagora journal No.44, Skopje, Macedonia, 2000
123. **Uzunov A.**, Selection of honey bee populations, Melitagora journal No.43, Skopje, Macedonia, 2000

ANNEX 2 (List of participations and projects)

PARTICIPATION IN CONGRESSES, SYMPOSIUMS, SEMINARS, WORKSHOPS, PRESENTATIONS AND OTHER EVENTS

1. Lecturer: Uzunov A. Rapid Brood Decapping: Apimondia Webinar: Expert Talks on Tropilaelaps mites, April 2025.
2. Conference Chairperson: International Conference on Honey Bee Breeding, 2nd to 5th September, Beijing, China, 2024.
3. Lecturer: Uzunov A., Chen C. European Honey Bee Breeding & Perspectives in China, Yining, Xinjiang, China, 2023.
4. Lecturer: Uzunov A. Temporal isolation as a mode for mating control, Day of the open doors – BeeConSel project, Skopje, Macedonia, 2023.
5. Lecturer: Uzunov A. Temporal isolation for achieving mating control in honey bees, BeeConSel WS, Skopje, Macedonia, 2023.
6. Lecturer: Uzunov A. The perspectives of brood interruption methods for Varroa control, Palma de Mallorca, Spain, 2023.
7. Lecturer: Uzunov A. The relevance and methods of mating control, Palma de Mallorca, Spain, 2023.
8. Lecturer: Uzunov A. Breeding program for genetic improvement & conservation of *A. m. iberiensis*, Santiago de Compostela, Spain, 2023.
9. Lecturer: Uzunov A. Progress achieved in BeeConSel and report on Malta study, Strumica, MacBee WS, 2022.
10. Invited lecturer: Uzunov A. Basic requirements for initiation of honey bee breeding, Campos, Mallorca, Spain 2022.
11. Invited lecturer: Uzunov A. Performance testing, Campos, Mallorca, Spain 2022.
12. Invited lecturer: Uzunov A. Interpretation and use of breeding values for a selection of genotypes, Campos, Mallorca, Spain 2022.
13. Invited lecturer: Uzunov A. Mating control – the crucial element, Campos, Mallorca, Spain 2022.
14. Invited lecturer: Uzunov A. Breeding program synchronization and coordination, Campos, Mallorca, Spain 2022.
15. Lecturer: Uzunov A. BeeConSel project in Macedonia, Day of the open doors – BeeConSel project, Skopje, Macedonia, 2022.
16. COLOSS RNSBB WS, Effect of timing of queen caging on honey production, 20-21 February 2020, Pulawy, Poland.
17. WS Varroa Control TF, Results from the international study on brood interruption, 30 May – 1 June 2019, Mavrovo, Macedonia.
18. Lecturer: Uzunov A., Büchler R. (2019) Seasonal brood interruption study 2016/2018, WS COLOSS/Varroa Control TF 20-22 January 2019, Tel Aviv, Israel.
19. Lecturer: Uzunov A., Büchler R. (2019) International COLOSS brood interruption study 2016/2018, WS COLOSS/Varroa Control TF, 14th COLOSS Conference 2018 * Sept. 16-17 * Belgium.
20. Lecturer: Uzunov A., Büchler R. (2018) EU market for reproductive material and current status with Varroa resistant honey bees, EURBEST WS, 10th June 2018, Athens, Greece.
21. Lecturer: Uzunov A., Büchler R. (2018) Local breeding programs in practice, SMARTBEES WS, 9th June 2018, Athens, Greece.
22. Lecturer: Uzunov A. (2018) Alternative summer Varroa control – preliminary results from the study in Macedonia, 16 February 2017, Kocani, Macedonia.
23. Lecturer: Uzunov A., Büchler R., Kaspar Bienefeld, Andreas Hoppe, Marina Meixner, Per Kryger, Bjorn Dahle (2017) Initiating breeding programs for genetic improvement and preservation of European honey bee populations, 45th International Apicultural Congress – Apimondia 2017, 29 September – 04 October 2017, Istanbul, Turkey.
24. Invited speaker on Plenary Session - Round Table „Bee health and breeding better bees“, 45th International Apicultural Congress – Apimondia 2017, 29 September – 04 October 2017, Istanbul, Turkey.
25. Invited lecturer: Uzunov A., LOKALE ANPASSUNG: EIN WICHTIGES MERKMAL FÜR DIE ZUCHT VON HONIGBIENEN, Carnica-Schutzkongress in Kärnten – Goldbrunnhof bei Völkermarkt, 16th September 2017, Austria.
26. Lecturer: Uzunov A., Büchler R. The Basic Concept of Honey Bee Breeding Programs, Smartbees seminar for breeding coordinators, 6th - 7th July 2017, Pulawy, Poland.
27. Invited lecturer: Uzunov A. First results from the research on Comino Island, Maltese Beekeeping Association, 30th May 2017, Malta.
28. Lecturer: Uzunov A., Büchler R., International study on regional adapted Varroa infestation threshold values - concept, results and plans, COLOSS/Varroa Control TF, 22-23 March 2017, Bologna, Italy.
29. Lecturer: Uzunov A., Büchler R., SEASONAL BROOD INTERRUPTION STUDY 2016/2017 - results and experience from Germany, COLOSS/Varroa Control TF, 22-23 March 2017, Bologna, Italy.
30. Lecturer: Uzunov A., Büchler R., Nanetti A., Seasonal brood interruption study 2016/2017 – preliminary results and experience from Europe, COLOSS/Varroa Control TF, 22-23 March 2017, Bologna, Italy.
31. Invited lecturer: Uzunov A., Büchler R. Performance testing and selection of local honey bee populations in Europe. 23 February, Lukovica, Slovenia.
32. Lecturer: Progress, results and challenges in implementing activities for testing and selection of European local honey bee populations (WP6), SMARTBEES annual consortium meeting, Nice, France, 16th January 2017.
33. Invited lecturer: Uzunov A., K. Bienefeld, R. Büchler, R. Dall'Olio. Breeding programs and performance testing of honey bee colonies. AIAAR conference, 15 - 16 November 2016, Bologna, Italy.
34. Lecturer: Uzunov A., Andonov S. Data validation for essential statistical analysis. Smartbees seminar for breeding coordinators, 9th - 10th November 2016, Malta.
35. Lecturer: Uzunov A., K. Bienefeld, M. Meixner, R. Büchler. Activities for genetic improvement of *A. m. mellifera* within the Smartbees project, SICAMM Conference, 20 – 23 October 2016, Lunteren, Netherlands.
36. Lecturer: Uzunov A., R. Büchler, K. Bienefeld, Genetic improvement of European honey bee (*Apis mellifera* L.) populations, 7th EURBEE Congress of Apidology, 7 – 9 September 2016, Cluj-Napoca, Romania.

37. Lecturer: Uzunov A., Büchler R., Chlebo R. (2016) Performance testing of honey bees., SMARTBEES WS, 11 June. 2016, Banska Bystrica, Slovakia.
38. Lecturer: Uzunov A., Büchler R. (2016) Performance testing protocol, SMARTBEES WS, 30 April, 1 May. 2016, Vilnius, Lithuania.
39. Lecturer: Uzunov A., Büchler R. (2016) Honey bees performance testing, SMARTBEES WS, 1 April. 2016, Avignon, France.
40. Invited lecturer: Uzunov A., Büchler R., (2016) Regionale Selektion vitaler Völker, Deutscher Imkerbund Züchtertagung, 11-13 March.2016, Zachenberg, Germany.
41. Lecturer: Uzunov A., Büchler R., Meixner M., (2016) Genetic improvement of *A. m. rutneri*, SMARTBEES WS, 6 March. 2016, Malta.
42. Lecturer: : Uzunov A., Büchler R., Schuller D., (2016) Performance testing for improvement of *A. m. iberiensis*, SMARTBEES WS, 3 March. 2016, Nisa, Portugal.
43. Lecturer: Uzunov A. (2015) Prekin na leglo vo letniot period, PZ Matica, 22 December, Skopje, Macedonia.
44. Lecturer: Uzunov A., Buchler R., (2015) Performance testing and selection, SMARTBEES WS, 10 October. 2015, Bucharest, Romania.
45. Invited lecturer: Uzunov A., Buchler R., (2015) Potential of brood removal method for sustainable Varroa control, 26 September, Brno, Czech Republic.
46. Invited lecturer: Uzunov A., Buchler R., (2015) Performance testing and selection, 26 September, Brno, Czech Republic.
47. Invited lecturer: Uzunov A., Buchler R., (2015) Performance testing and selection, Austrian Carnica Association, 4 July. 2015, Mieming, Austria.
48. Lecturer: Uzunov A., Buchler R., (2015) Performance testing and selection, SMARTBEES WS, 20 June. 2015, Athens, Greece.
49. Lecturer: Buchler R., Uzunov A (2015) Performance testing and selection, SMARTBEES WS, 13 June. 2015, Klofta, Norway.
50. Lecturer: Uzunov A., Buchler R., (2015) Performance testing and selection, SMARTBEES WS, 6 June. 2015, Sisak, Zagreb, Croatia.
51. Lecturer: Uzunov A., Buchler R., (2015) Honey bee performance testing, SMARTBEES WS, 30 May. 2015, Pulawy, Poland.
52. Lecturer: Uzunov A., Buchler R., (2015) Honey bee performance testing, SMARTBEES WS, 17 May. 2015, Belgrade, Serbia.
53. Lecturer: Uzunov A., Buchler R., (2015) Honey bee performance testing, SMARTBEES WS, 14 May. 2015, York, UK.
54. Lecturer: Uzunov A., Buchler R., (2015) Performance testing and selection, SMARTBEES WS, 9 May. 2015, Bergen, Norway.
55. Lecturer: Uzunov A., Buchler R., (2015) Performance testing and selection, SMARTBEES WS, 24 Apr. 2015, San Sebastian, Spain.
56. Lecturer: Uzunov A., Buchler R., (2015) Honey bee performance testing, SMARTBEES WS, 11 Apr. 2015, Skopje, Macedonia.
57. Lecturer: Uzunov A., Buchler R., (2015) Honey bee performance testing, SMARTBEES WS, 8 Apr. 2015, Thessaloniki, Greece.
58. Invited lecturer: Büchler R, Uzunov A. (2015) Vorteile regional angepasster Bienen und deren Konsequenzen für die Auslese vitaler Bienen in Europa, DIB-Züchtertagung, 22. März 2015, Drübeck, Deutschland
59. Invited lecturer: Uzunov A., Büchler R. (2015) New horizon for breeding vital European honey bees, Beekeeping Conference, 13 Feb 2015, Bologna, Italy.
60. Lecturer: Uzunov A., Büchler R., Meixner M., (2015) Performance testing protocol, RNSBB/COLOSS WS, 9 Feb, Kirchhain, Germany.
61. Invited lecturer: Uzunov A., Büchler R. (2015) Breeding vital European honey bees (SMARTBEES project), Apicultural Conference, 6 Feb, Pulawy, Poland.
62. Session moderator: The COLOSS Workshop on "Varroa control" "May 22 – 23, 2014" "Bled - SLOVENIA
63. Lecturer: Uzunov A., Büchler R. (2014) Potential of brood removal method for sustainable Varroa control, 21-22 May 2014, Bled, Slovenija.
64. Lecturer: Costa C., Uzunov A. *et al.* (2014) Is the trait "Varroa Sensitive Hygiene" present in European colonies?, 21-22 May 2014, Bled, Slovenija.
65. Lecturer: Uzunov A., Buchler R., Pavlov B., Andonov S., Kiprijanovska H. Hochzeitsflug Frequenz-und Paarungserfolg der Honigbiene (*Apis mellifera* L.) Königin auf kleine Insel (Nuptial flight frequency and mating success of honey bee (*Apis mellifera* L.) queens on small size island), 25 - 27 March 2014, Kirchhain, Germany.
66. Lecturer: Uzunov A., Kiprijanovska H., Andonov S., Gregorc A., Buchler R. Thymovar efficacy on *Varroa Destructor* under excessive summer conditions, XXXXIII International Apicultural Congress – Apimondia 2013, 29 September – 04 October 2013, Kiev, Ukraine
67. Lecturer: Uzunov A., Ilkov I., Kiprijanovska H. Initial activities for implementation of breeding program for improvment of native honey bee population (*Apis mellifera macedonica*) in the Republic of MacedoniaXXXXIII International Apicultural Congress – Apimondia 2013, 29 September – 04 October 2013, Kiev, Ukraine
68. Activities for conservation and improvement of *A. m. macedonica*, Scientific-practical conference for beekeeping in Republic of Macedonia, 14th December 2103, Skopje, Macedonia
69. *A. m. macedonica* - colony development, ethology and tolerability to diseases in the conditions in Republic of Macedonia, Scientific-practical conference for beekeeping in Republic of Macedonia, 14th December 2103, Skopje, Macedonia
70. Practical experience in commercial honey bee queens production by usage of different mating boxes. Scientific-practical conference "Dalmatina", 16 and 17 November, Split, Croatia
71. Contemporary approach in honey bee queen production - performance test and selection, First scientific-practical conference for beekeeping, 2 and 3 November, Banja Luka, Republika Srpska, Bosnia and Hercegovina
72. Frequency and duration of mating flights on a small island, Bee Breeding Group WS, Unije, Croatia, 4nd April 2013
73. Colony performance, behaviour and disease susceptibility of two genotypes from *Apis mellifera macedonica*, Bee Breeding Group WS, Unije, Croatia, 4nd April 2013
74. Macedonian beekeeping and native honey bee population (*Apis mellifera macedonica*), Agricultural Institute of Slovenia, Ljubljana, Slovenia, 2nd April 2013
75. Lecturer: "Colony performance, behavior and disease susceptibility of two genotypes from *Apis mellifera macedonica* population in the Republic of Macedonia", 60th Annual Meeting of the Association of Institutes for Bee Research, Germany, 19th - 21st March, 2013
76. Lecturer: "Observations on queen mating behaviour on a small island", SICAMM Conference, Landquart, Switzerland, 31st August to 4th , September 2012
77. Lecturer: "Beekeeping practice in the Balkans and Germany - comparative analysis", SPOS seminar, 25th August, 2012. Aleksinac, Serbia
78. Lecturer: "Honey bee colonies overwintering survival rate and food consumption - main factors", XVII International seminar, 23th June 2012, Vlasinsko jezero, Serbia
79. Lecturer: "Summer treatment against *Varroa destructor*", XVII International seminar, 23th June 2012, Vlasinsko jezero, Serbia

80. Lecturer: "Thymovar efficiency on *Varroa destructor* under excessive summer condition in South-Eastern Europe", ApiEcoTech Apimondia Symposium, 18-19 February 2012, Serbia
81. Participant on (COST action) COLOSS workshop Bee Book and data analyses of GEI experiment, Jokioinen, Finland, 23rd – 27th Jan, 2012
82. Invited lecturer on Annual Breeding Seminar of German Beekeeping Association (Deutscher Imkerbund) in Schechen, Germany 12 Nov. 2011
Topic: "Frequenz und Dauer von Paarungsflügen auf einer kleinen Insel" (trans.: Frequency and duration of mating flights on a small island)
83. Expert lecturer on the IPSIA/CARITAS project Good Beekeeping Practice, Prizren, Kosovo, 2011
84. Invited lecturer on 3th Convention of Italian professional beekeepers (3^o Convegno dell'apicoltura pugliese), Lecce, Italy, 2011
Topic: "Macedonian honey bee breeding program"
85. Invited lecturer on 2nd Symposium for beekeeping, Duzce, Turkey, 2010
Topic: "Macedonian honey bee (*Apis mellifera macedonica*)"
Topic: "Makedonya Arıcılığının Şimdiki Durumu" (trans.: Beekeeping situation in Republic of Macedonia)
86. Participant on (COST action) COLOSS workshop Standardised protocols for honey bee vitality and diversity, Athens, Greece, 2010
87. Participant on 6th (COST action) COLOSS Conference, Ankara, Turkey, 2010
88. Plenary session lecturer on the APIMONDIA 2009 World Beekeeping Congress, Montpellier, France, 2009, Topic: Macedonian national honey bee breeding program.
89. Participant on 5th (COST action) COLOSS Conference, Montpellier, France, 2009
90. Lecturer on (COST action) COLOSS workshop Standardisation of methods II : vitality testing, Kirchhain, Germany, 2009
Topic: "Overwintering food consumption"
91. Lecturer on (COST action) COLOSS workshop Standardisation of methods vitality test, Unije, Croatia, 2009
Topic: "Testing and evaluation of biological and productive characteristics of the honey bee population in Republic of Macedonia"
92. Participant on 4th (COST action) COLOSS Conference, Zagreb, Croatia, 2009
93. Invited lecturer on 1st Symposium for beekeeping, Duzce, Turkey, 2009
Topic: "Makedonya cumhuriyetinde bal arisi (*Apis mellifera* L.) çeşitliliği" (trans. Diversity of honey bee (*Apis mellifera* L.) in R. of Macedonia)
Topic: "Agro-biodiversity in Republic of Macedonia (sheep and honey bee)"
94. Participant on 4th (COST action) COLOSS Conference, Belfast, Ireland, 2008
95. Participant on 1st (COST action) COLOSS Management Committee meeting, Brussels, Belgium, 2008
96. Lecturer on the 2nd EURBEE conference in Prague, Czech Republic, 2006
97. Plenary session lecturer on the APIMONDIA 2005 World Beekeeping Congress, Dublin, R. Ireland, 2005. Topic: Current Situation in the Macedonian Apiculture
98. Lecturer of XII Symposium for Beekeeping – Serbia and Montenegro, 2004
99. Expert lecturer in the GTZ project entitled Selection and production of honey bee queens, 2002/2003
100. Participation on the XXV review of science work for students of agricultural in Novi Sad, Serbia, 2001

COORDINATION AND PARTICIPATION IN PROJECTS, PROGRAMS AND JOURNALS

1. WP and National coordinator of the Horizon 2020 project "RESILIENT BEEKEEPING AND BREEDING TO SAFEGUARD NATURAL GENETIC RESOURCES AND POLLINATION SERVICES (BEEGUARDS)", WP 2 "Adaptation of Breeding Strategies for Resilient Beekeeping" (2023 – ongoing).
2. Consultant for Gold Bricks company, Skopje (2021 – ongoing).
3. WP and National coordinator of the international project BeeConSel - Joint Effort for Honey Bee Conservation and Selection (2020 – ongoing).
Expert – "Smart bee hive" project, Fund for Innovations and Technology Development of Macedonia, 2019 – ongoing.
4. Expert - EU funded project "Restructuring of the honey bee chain and Varroa resistance breeding & selection programme - EURBEST" (2018-ongoing).
5. Expert - Bilateral project: Introduction of Breeding Technology from Germany to Promote the Diversity, Conservation and Utilisation of Native Honey Bees in China, Germany-China bilateral cooperation in the framework of "Sino—Germany Cooperation on Agricultural Science and Technology" 2017 -ongoing
6. Expert - Applied research project "Alternative summer methods for Varroa control in Macedonia", The Nature Conservation Programme in Macedonia, Swiss Agency for Development and Cooperation (SDC), Macedonia, 2017 – 2020.
7. Editorial committee member in specialised beekeeping journal "Srpski Pcelar", Serbia, 2016 – ongoing
8. Expert - Bilateral project Austria-Macedonia: Honey bee colony losses in Austria and Macedonia: risk analysis and economic impact. 2016 -2018
9. Coordinator of breeding activities within Work Package 6 / FP7 Project SMARTBEES. 2015 - 2018
10. Project leader on Andermatt BioVet GmbH (Switzerland) research study on alternative methods for the usage of oxalic acid against *Varroa destructor*. 2013 – 2016.
11. Consultant in the project FEEDING KNOWLEDGE / BEST PRACTICES, CIHEAM IAM Bari, Italy. Regional Rural Development Standing Working Group in South Eastern Europe - SWG. 2013 - 2015.
12. Founding member of the The Research Network for Sustainable Bee Breeding (COLOSS WG4) 2013- ongoing.
13. Expert in Establishing a Bee-Cooperative Enhancing project – Zhupa Valley Region, Kosovo, 2012, NGO ISPIA (Italy)
14. Leading expert in the Conservation of the Macedonian honey bee population (*Apis mellifera macedonica*) in Republic of Macedonia (MKD/SGP/OP5/CORE/BD/11/16) Project, Macedonia 2012 – 2013, GEF Small Grants Programme, UNDP
15. Macedonian Management Committee member in COST Action FA 0803 - Prevention of honeybee Colony LOSSes, 2008 - 2013
16. Coordinator of research activities in MacBee (Macedonian association for preservation of Macedonian honey bee (*Apis mellifera macedonica*), 2011 – ongoing.
17. Editorial committee member in specialised beekeeping journal "Pcelarski Zurnal", Belgrade, Serbia, 2011 – on going

18. Participant and coauthor in the National program for livestock recordkeeping (Beekeeping report) breeding program in Republic of Macedonia, Ministry for Agriculture, Forestry and Water economy of Republic of Macedonia, 2010
19. National coordinator of the project entitled Establishing Client-financed Agricultural Advisory Services - Ex-post Assessment of the Agricultural Financial Services Project (AFSP) Advisory Services Concept, Project financed by International Fund for Agricultural Development, 2009/2010
20. Coordinator and lecturer of long-term educational project entitled Good Beekeeping Practice - Project financed by MAASP (Swedish International Development Cooperation Agency), 2008/2009
21. Junior scientist in the Bilateral project Macedonia / Slovenia entitled Comparison of the reproductive and productive characteristics of the honey bee queens breed in Macedonia and Slovenia, 2007/2008
22. Junior scientist in the Bilateral project Macedonia / Germany (GTZ project) entitled Preparation of National beekeeping breeding program in Republic of Macedonia, 2007/2008
23. Junior scientist in the National project entitled Preparation of the honey flow map on the territory of Republic of Macedonia (Ministry for Education and Science of Republic of Macedonia), 2007/2008
24. Coordinator and lecturer in the educational project entitled Technical support of the beekeepers from Polog region - Project financed from Dutch embassy in Republic of Macedonia, 2007/2008
25. Project assistant in the project Initial activities in agro-biodiversity conservation in Republic of Macedonia, GTZ project, 2003/2004
26. Project assistant of SENTER/RDP Pilot project entitled Registration and identification of sheep in Macedonia, 2003
27. Coordinator and lecturer in the project entitled Honey bee queen production – Beekeeping association PCELA – Probistip, 2003

ANNEX 3 (List of trainings and scholarships)

1. Short-term scientific mission in Institute for beekeeping in Kirchhain, Germany (DAAD PhD studentship), from 27.06 to 09.09.2012
2. Short-term scientific mission in Institute for beekeeping in Kirchhain, Germany (DAAD PhD studentship), from 26.07 to 12.09.2009
3. Short-term scientific mission in Agriculture Institute in Ljubljana (Laboratory for honey bee), Slovenia, 2007
4. Participant of "Training of Inspectors for Organic production", Macedonia/Greece, 2003/2004
5. Participant of GTZ training workshop "Facilitation technique", 2003
6. Participant of training workshop "Mating stations in Beekeeping" – Croatia, 2003
7. Participation on International Follow-up Workshop "Fostering Organisations and Partnership Associations" in INWENT center in Germany, 2003
8. Participant of training workshop "Management of Organisations and human Resources Development" in DSE center in Germany, 2002
9. Five months beekeeping student practice on professional honey bee farm in Germany, 2001

ANNEX 4 (List of mentorships)

1. Non-visiting external examiner of MSc thesis from Michael Albanizzo "The Effect of the Oriental Hornet (*Vespa orientalis*) on the Beekeeping Industry in the Maltese Islands", Institute of Earth Systems, University of Malta (2018 – ongoing).
2. Scientific advisor on BSc thesis: Bachelorarbeit von Martin Gabel "Brutentnahme und Brutunterbrechung als alternative Behandlungsmethoden der Honigbiene (*Apis mellifera* L.) gegen die Varroamilbe (*Varroa destructor* ANDERSON & TRUEMAN)", 2016, Philipps-Universität Marburg, Deutschland.
3. Member of commission for MSc thesis "Polen Atlas of Most Important Plants for Honey Bees in the Eastern Region of Macedonia", Faculty of Agricultural Sciences and Food, Skopje, Macedonia, 2014.
4. Member of BSc commission for Dimitar Sirgovski: Queen production by grafting method, 2014, Faculty of Agricultural Sciences and Food, University Ss Cyril and Methodius - Skopje, Macedonia.