

## Europass Curriculum Vitae



### Personal information

**First name(s) / Surname(s)** **Aleksandar UZUNOV**  
**Address(es)** Landesbetrieb Landwirtschaft Hessen - Bieneninstitut Kirchhain,  
 Erlenstraße 9, 35274 Kirchhain, Germany  
 (Faculty for Agricultural Sciences and Food – Skopje  
 bul. Aleksandar Makedonski b.b., 1000 Skopje, Republic of Macedonia)  
**Telephone(s)** +49 (0) 6422 - 94 06 37 (+389 2 3115 277 ext. 254)  
**Fax(es)** +49 (0) 6422 - 94 06 33 (+389 2 3134 310)  
**E-mail** [Aleksandar.Uzunov@llh.hessen.de](mailto:Aleksandar.Uzunov@llh.hessen.de) ([uzunov@zf.ukim.edu.mk](mailto:uzunov@zf.ukim.edu.mk))  
**Nationality** Macedonian  
**Date of birth** 10.12.1975  
**Gender** Male

### Work experience

**Dates** **05.01.2015 - present**  
**Occupation or position held** Scientist  
**Main activities and responsibilities** Coordinator of breeding activities / SMARTBEES FP7 project - WP6 implementation  
**Name and address of employer** Landesbetrieb Landwirtschaft Hessen - Bieneninstitut Kirchhain, Erlenstraße 9, 35274 Kirchhain,  
 Germany  
**Type of business or sector** Research, Academic, Extension

**Dates** **01.01.2009 - present**  
**Occupation or position held** Assistant Professor  
**Main activities and responsibilities** Lecturing of undergraduate students and providing research in the field of honey bee biology  
**Name and address of employer** University "Ss Cyril and Methodius" in Skopje, Faculty for Agricultural Sciences and Food,  
 bul Aleksandar Makedonski b.b., 1000 Skopje, Republic of Macedonia  
**Type of business or sector** Academic, Research, Education, Agriculture

**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

<b>Dates</b>	<b>01.03.2002 – 31.07.2004</b>
Occupation or position held	Project assistant
Main activities and responsibilities	Organization 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
<b>Education and training</b>	
<b>Dates</b>	<b>04.07.2008 – 23.01.2013</b>
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
<b>Dates</b>	<b>01.06.2005 – 24.04.2007</b>
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
<b>Dates</b>	<b>01.06.1994 – 09.01.2002</b>
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
<b>Personal skills and competences</b>	
Mother tongue(s)	<b>Macedonian</b>
Other language(s)	<b>English, Serbian, Croatian, German</b>
Organisational skills and competences	- Project and team management
Computer skills and competences	Excellent command of Microsoft Office™ tools (Word™, Excel™, PowerPoint™, Access™, Project™, FrontPage™), Adobe Professional and Corel
<b>Annexes</b>	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. **Aleksandar Uzunov**, E. W. Brascamp, Ralph Büchler (2017) **The Basic Concept of Honey Bee Breeding Programs**. *Bee World*, 94.3, 2017.
2. **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**.
3. **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**.
4. **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):

5. Büchler R., **Uzunov A.**, Selecting for Varroa Resistance in German Honey Bee, 93.2.2016.
6. Roy M Francis, Esmail 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](https://doi.org/10.3896/IBRA.1.53.2.14), **ISI Impact factor (2012) 1,926**.
7. 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](https://doi.org/10.3896/IBRA.1.53.2.01), **ISI Impact factor (2012) 1,926**.
8. Marina Doris Meixner, Roy Mathew Francis, Anna Gajda, Per Kryger, Sreten Andonov, **Aleksandar Uzunov**, Grazyna Topolska, Cecilia Costa, Esmail 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](https://doi.org/10.3896/IBRA.1.53.2.04), **ISI Impact factor (2012) 1,926**.
9. 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](https://doi.org/10.3896/IBRA.1.53.2.05), **ISI Impact factor (2012) 1,926**.
10. 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](https://doi.org/10.3896/IBRA.1.53.2.02), **ISI Impact factor (2012) 1,926**.
11. 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**.
12. Pihler I., Kiprijanovska H., Plavska N., Krajinovic 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**.
13. 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**.

14. Costa, C; **Uzunov, A**; Kiprijanovska, H; et al., A Europe-Wide Experiment for Assessing the Impact of Genotype-Environment Interactions on the Vitality and Performance of Honey Bee Colonies: Experimental Design and Trait Evaluation, Journal of Apicultural Sciences, published on 19.06.2012, ([DOI 10.2478/v10289-012-0015-9](https://doi.org/10.2478/v10289-012-0015-9)), **ISI Impact factor (2011) 0,674.**
15. Romée van der Zee, Lennard Pisa, Sreten Andonov, Robert Brodschneider, Jean-Daniel Charrière, Róbert Chlebo, Mary F Coffey, Karl Crailsheim, Bjørn Dahle, Anna Gajda, Alison Gray, Marica M Drazic, Mariano Higes, Lassi Kauko, Aykut Kence, Meral Kence, Nicola Kezic, Hrisula Kiprijanovska, Jasna Kralj, Preben Kristiansen, Raquel Martin Hernandez, Franco Mutinelli, Bach Kim Nguyen, Christoph Otten, Asli Özkırım, Stephen F Pernal, Magnus Peterson, Gavin Ramsay, Violeta Santrac, Victoria Soroker, Grażyna Topolska, **Aleksandar Uzunov**, Flemming Vejsnæs, Shi Wei and Selwyn Wilkins (2012) **Managed honey bee colony losses in Canada, China, Europe, Israel and Turkey, for the winters 2008-2009 and 2009-2010**, Journal of Apicultural Research, ([DOI 10.3896/IBRA.1.51.1.12](https://doi.org/10.3896/IBRA.1.51.1.12)). **ISI Impact factor (2010) 1,028.**
16. Maria Bouga, Cedric Alaux, Malgorzata Bienkowska, Ralph Büchler, Norman L Carreck, Eliza Cauia, Robert Chlebo, Bjorn Dahle, Raffaele Dall'Olio, Pilar De la Rúa, Ales Gregorc, Evgeniya Ivanova, Aykut Kence, Meral Kence, Nikola Kezic, Hrisula Kiprijanovska, Peter Kozmus, Per Kryger, Yves Le Conte, Marco Lodesani, António Manuel Murilhas, Adrian Siceanu, Gabriele Soland, **Aleksandar Uzunov** and Jerzy Wilde (2011) **A review of methods for discrimination of honey bee populations as applied to European beekeeping**, Journal of Apicultural Research, ([DOI 10.3896/IBRA.1.50.1.06](https://doi.org/10.3896/IBRA.1.50.1.06)). **ISI Impact factor (2009) 0,694.**

### BOOKS, CHAPTER(S), SUBCHAPTER(S) IN BOOKS

1. Büchler R., **Uzunov A.** (2017) **Honey bee selection**, chapter in **No bees, No life** Edited by Peter Kozmus, Boštjan Noč, Karolina Vrtačnik, Beebooks d.o.o. Selo 42 , 4274 Žirovnica, Slovenia.
2. Büchler R., **Uzunov A.** (2017) **Selekcija v čebelarstvu**, chapter in **Brez čebel ne bo življenja**, Edited by Peter Kozmus, Boštjan Noč, Karolina Vrtačnik, Beebooks d.o.o. Selo 42 , 4274 Žirovnica, Slovenia.
3. Kiprijanovska H., **Uzunov A.** (2015) **Bee products**, book, Faculty of Agricultural Sciences and Food in Skopje, Macedonia.
4. Andonov S., **Uzunov A.**, Srbinovska S., Gjorgjievski S., Dimitrov L., Kirandziski T., Vukovic V., Eftimova E. (2014) **Study on adaptation to climate change in livestock in Republic of Macedonia**. United States Agency for International Development (USAID), Project: Adaptation to climate change in agriculture.
5. Kiprijanovska H., **Uzunov A.**, Dzimrevska I. (2005) **Analysis of Macedonian beekeeping sector** (ISBN 978-9989-845-41-3), book, Skopje, Macedonia.

### SCIENTIFIC, RESEARCH, TECHNICAL AND OTHER PAPERS, ABSTRACTS, POSTERS AND DOCUMENTS (LAST 5 YEARS)

1. Zammit-Mangion M, Mifsud D, **Uzunov A**, Meixner M, Galea T. and Cutajar S. (2017) **Balancing Conflicting Needs - A case study in the Conservation of the Endemic honeybee *Apis mellifera ruttneri***, 4th International Congress on Biodiversity "Man, Natural Habitats and Euro-Mediterranean Biodiversity" , 17-19 November 2017, Malta.
2. Martin Gabel, Ralph Büchler, **Aleksandar Uzunov** (2017) **Biotechnical approaches for Varroa control - different applications of brood interruption, brood removal and trapping combs in colony management**, 45<sup>th</sup> International Apicultural Congress – Apimondia 2017, 29 September – 04 October 2017, Istanbul, Turkey.
3. **Aleksandar Uzunov**, Ralph Büchler, Kaspar Bienefeld, Andreas Hoppe, Marina Meixner, Per Kryger, Bjorn Dahle (2017) **Initiating breeding programs for genetic improvement and preservation of European honey bee populations**, 45<sup>th</sup> International Apicultural Congress – Apimondia 2017, 29 September – 04 October 2017, Istanbul, Turkey.
4. Iratxe Montes, Egoitz Galarza, Andone Estonba, **Aleksandar Uzunov**, Ralph Büchler, Kaspar Bienefeld (2017) **ACTIVIDADES DE MEJORA Y CONSERVACIÓN DE POBLACIONES LOCALES DE ABEJA EN LA PENÍNSULA IBÉRICA (*A. m. iberiensis*)**, N° 22 / APICULTURA IBÉRICA, 23-31, Spain.
5. Róbert Chlebo, **Aleksandar Uzunov**, Ralph Büchler, Kaspar Bienefeld (2017) **Šanca posunúť chovateľský pokrok**, Journal: Včelár, 7/2017, pp 134-135, Slovakia.
6. Adrian Siceanu, Eliza Căuia, **Aleksandar Uzunov**, Ralph Büchler, Kaspar Bienefeld (2017) **PROGRAMUL DE AMELIORARE LA ALBINE <SMARTBEES> ÎN ROMÂNIA**, ROMÂNIA APICOLĂ nr.7/2017, Romania.
7. Gabel M., Uzunov A., Wallner K., Büchler R. (2017) **„Mach mal Pause“, Untersuchungen zu Brutpause und Bannwabe gehen in die nächste Runde**, Bienen & Natur, pp.14-16, Issue 7, 2017, Germany.
8. Meixner M., **Uzunov A.**, Büchler R. (2017) **Estimating regional Varroa threshold levels across Europe**, COLOSS WS/Virus TaskForce, 6-7 April 2017, Avignon, France.
9. **Uzunov A.**, Büchler R., Andonov S., Pavlov B., Golubovski M. (2017) **Phenotypic parameters of some traits in honey bee population of *Apis mellifera macedonica***, 3<sup>rd</sup> International Symposium for Agriculture and Food - ISAF 2017, 18-20 October 2017, Ohrid, Macedonia.
10. Eliza Căuia, Adrian Siceanu, Ralph Buchler, **Aleksandar Uzunov**, Gabriela Oana Vișan, Dumitru Căuia (2017) **The assessment of non-reproduction rate of varroa (*Varroa destructor*) in a selection apiary in Romania – a comparative approach 2015-2016**, 45<sup>th</sup> Apimondia 2017 - International Apicultural Congress, 29<sup>th</sup> September - 4<sup>th</sup> October 2017, Istanbul, Turkey.
11. Nedic N., **Uzunov A.**, Büchler R., Bienefeld K. (2017) **ODGAJIVANJE I SELEKCIJA LOKALNE MEDONOSNE PČELE (*Apis mellifera carnica*) u sklopu WP6 - SMARTBEES**, Srpski Pcelar br. 6, Belgrade, Serbia.

12. Małgorzata Bieńkowska, Beata Panasiuk, **Aleksandar Uzunov**, Ralph Büchler, Kaspar Bienefeld (2017) **SMARTBEES - Hodowla i ochrona europejskich pszczół miodnych - postęp w jednym z największych europejskich naukowych projektów badawczych związanych pszczolami cz. III.** Pszczelarstwo" 5/2017, Poland.
13. Cátia José Neves, Paulo Ventura, **Aleksandar Uzunov**, Ralph Büchler, Kaspar Bienefeld, M. Alice Pinto (2017) **Instalado e Avaliado pelo Instituto Politécnico de Bragança: Resultados de um Ano de Avaliação** - Apiário Teste do Smartbees, Nº 96 April/June 2017, Revista o Apicultor, Portugal.
14. M. Alice Pinto, **Aleksandar Uzunov**, Ralph Büchler, Kaspar Bienefeld (2017) **O Programa de Seleção e Melhoramento Genético do SMARTBEES - na Europa e em Portugal - O Testemunho de uma Experiência de Dois Anos**, Nº 96 April/June 2017, Revista o Apicultor, Portugal.
15. Martin Gabel, **Aleksandar Uzunov**, Christian Dreher, Ralph Büchler (2017) **Quodlibet – guidance to practical and effective biotechnical Varroa control (Quodlibet – Leitfaden zu praktikabler und effektiver biotechnischer)**, AG-Tagung 2017 in Celle, Deutschland.
16. **Aleksandar Uzunov**, Ralph Büchler (2017) **Progress of the SMARTBEES project in testing and selection of local honey bee populations (Fortschritte des Projekts SMARTBEES bei der Prüfung und Selektion lokaler Bienenpopulationen)**, AG-Tagung 2017 in Celle, Germany.
17. Raffaele Dall'Olio, Desiderato Annoscia, Fabio Del Piccolo, Francesco Nazzi, **Aleksandar Uzunov**, Ralph Büchler, Kaspar Bienefeld (2017) **II Progetto Smartbees: primo biennio di attività**, N.3 - APRILE 2017, L'APICOLTORE ITALIANO, Italy.
18. Dall'Olio, Annoscia, Del Piccolo, Nazzi, **Uzunov**, Büchler, Bienefeld. (2017) **PROGETTO SMARTBEES**, RIVISTA NAZIONALE DI APICOLTURA | APRILE 2017 | APINSIEME AMBIENTE SOCIALE, Italy.
19. Cecilia Costa, Fani Hatjina, Marina Meixner, Maja Drazic, Beata Panasiuk, **Aleksandar Uzunov** (2017) **Sustainable Bee Breeding Book: chapter "Honey bees and genotype – environment interactions"**. COLOSS/RNSBB WS, 2-3 March 2017, Krakow, Poland.
20. Nedić N., Büchler R., **Uzunov A.** (2017) **Selection of queens towards honey bees' productivity improvement**. Farmers Agricultural Calendar 2017, Belgrade, Serbia.
21. **Uzunov A.**, Büchler R. (2016) **Smartbees - Aufbau eines Europäischen Zuchtnetzwerkes**, AGT (Arbeitsgemeinschaft Toleranzzucht), ADIZ - die Biene pp.20, November.
22. Kiprijanovska H., **Uzunov A.**, Pavlov B., Golubovski M. **Ethological and production traits of native honey bee subspecies (*Apis mellifera macedonica*) in Republic of Macedonia**, V Congress of Ecologists of Macedonia, Ohrid, Macedonia, 19-22 October 2016.
23. Gabel M., Büchler R., **Uzunov A.** **Mach mal Pause - Versuchsergebnisse zur Brutunterbrechung stimmen optimistisch**, ADIZ • die Biene • Imkerfreund, 9-11, 07.2016.
24. **Uzunov A.**, Büchler R., Bienefeld K. (2016) **Activities for genetic improvement of *A. m. mellifera* within the SMARTBEES project**, SICAMM Conference, 20th-23rd October, Duurzame Bij Netherlands.
25. Kiprijanovska H., **Uzunov A.**, Golubovski M., Pavlov B. (2016) **Morphological diversity of honey bees (*Apis mellifera* L.) on the territory of Republic of Macedonia**, Agro-Sym, 6-10 October, Jahorina, Bosnia and Herzegovina.
26. **Uzunov A.**, R. Büchler, K. Bienefeld, **Genetic improvement of European honey bee (*Apis mellifera* L.) populations**, 7<sup>th</sup> EURBEE Congress of Apidology, 7 – 9 September 2016, Cluj-Napoca, Romania.
27. Gabel M., **Uzunov A.**, Büchler R., **Summer brood interruption for vital honey bee colonies (results and experience from a study in Germany)**, COLOSS/Varroa Control Taskforce WS, 19-20 May 2016, Unije, Croatia.
28. Gabel M., **Uzunov A.**, Büchler R., (2016) **Brood interruption and brood removal as alternative summer treatments of honey bees (*Apis mellifera* L.) against *Varroa destructor* (Anderson & Trueman)**, GFÖ-Tagung, 5-9 September, Marburg, Germany.
29. **Uzunov A.**, Büchler R., **Regional networking for improvement of local bee populations in Europe**, COLOSS/B-RAP WS, 20-21 April 2016, Thessaloniki, Greece.
30. Pavlov B, Golubovski M., Andonov S., **Uzunov A.**, Büchler R., **Genetic improvement of *Apis mellifera macedonica* in the Republic of Macedonia**, COLOSS/RNSBB WS, 22-23 April 2016, Thessaloniki, Greece.
31. Golubovski M., Pavlov B., Kiprijanovska H., **Uzunov A.**, Meixner M., **Monitoring of honey bee diversity in the Republic of Macedonia**, COLOSS/RNSBB WS, 22-23 April 2016, Thessaloniki, Greece.
32. Büchler R., **Uzunov A.** (2016) **Vergleich verschiedener Ameisensäure-anwendungen**. Jahresbericht 2015, Bieneninstitut Kirchhain, Kirchhain, Germany.
33. **Uzunov A.**, Büchler R. (2016) **Zwangsbrutpause zur Varroabehandlung**. Jahresbericht 2015, Bieneninstitut Kirchhain, Kirchhain, Germany.
34. **Uzunov A.**, Büchler R. (2016) **SMARTBEES - Regionale Selektion vitaler Völker**. Jahresbericht 2015, Bieneninstitut Kirchhain, Kirchhain, Germany.
35. Büchler R., **Uzunov A.**, (2016) **Mach mal Pause Varroa-Bekämpfungsstrategie neu ausrichten!**, Imkerfreund, 03.2016, Deutschland
36. Nanetti A., Büchler R., **Uzunov A.**, Gregorc A., **COLOSS – VARROA CONTROL TASKFORCE, BROOD INTERRUPTION STUDY 2016/2017**, 2 February 2016, [www.coloss.org](http://www.coloss.org)
37. Gabel M., **Uzunov A.**, Büchler R., **Alternative Sommerbehandlung der Honigbiene (*Apis mellifera* L.) gegen *Varroa destructor* (Anderson & Trueman)**, 63. Jahrestagung der AG der Institute für Bienenforschung e.V., 22-24 March 2016, Braunschweig, Germany
38. **Uzunov A.**, Büchler R., Bienefeld K., **SMARTBEES – Verbesserung der Attraktivität lokaler Bienenpopulationen (*Apis mellifera* L.)**, 63. Jahrestagung der AG der Institute für Bienenforschung e.V., 22-24 March 2016, Braunschweig, Germany
39. Büchler R., **Uzunov A.**, Bienefeld K., **Smartbees project - Breeding for mite resistance and preservation of honeybee diversity in Europe**. 2016 XXV International Congress of Entomology. 25-30 September 2016, Orlando, Florida, USA
40. Meixner M., Buchler R. Costa C., Andonov S., Bienkowska M., Bouga M., Filipi J., Hatjina F., Ivanova E., Kezic N., Kryger P., Le Conte Y., Panasiuk B., Petrov P., Ruottinen L., **Uzunov A.**, Wilde J. (2015) **Looking for "The Best Bee"**, American Bee Journal, Volume 155, No. 6, June 2015, USA.
41. **Uzunov A.**, Büchler R. (2015) **AGT Zuchtconcept als Grundlage der europaweiten SMARTBEES Zuchtinitiative**, AGT (Arbeitsgemeinschaft Toleranzzucht), 30 April 2015 ([www.toleranzzucht.de](http://www.toleranzzucht.de)).
42. **Uzunov A.**, Buchler R., Bienefeld K. (2015) **Performance testing protocol - A guide for European honey bee breeders**. [www.smartbees-fp7.eu](http://www.smartbees-fp7.eu). From English translated in the following languages:

German	Italian	Polish	Croatian	Spanish	Serbian	Greek	French	Portuguese
Romanian	Macedonian	Norwegian	Slovenian	Chinese	Flemish	Lithuanian	Slovak	Hebrew
Turkish								

43. **Uzunov A., Büchler R. (2015) Smartbees project - New horizon for breeding vital European honey bees.** Published in popular bee journals in the following languages:

Language	Journal	Year of publication, Volume/Issue
Italian	Apitalia	2015, March, 3
Italian	L'Apicoltore Italiano	2015, March, 2
Romanian	Asociatia Crescatorilor de Albine din Romania	2015, March, 8
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

44. 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.
45. **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.
46. **Uzunov A.**, Buchler R. (2014) **Potential of brood removal method for sustainable Varroa control**, 21-22 May 2014, Bled, Slovenija.
47. Costa C., **Uzunov A.** et al. (2014) **Is the trait "Varroa Sensitive Hygiene" present in European colonies?**, 21-22 May 2014, Bled, Slovenija.
48. 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.
49. 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.
50. **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.

ANNEX 2 (List of participations and projects)

#### **PARTICIPATION ON CONGRESSES, SYMPOSIUMS, SEMINARS, WORKSHOPS, PRESENTATIONS, JOURNALS AND OTHER EVENTS (LAST 5 YEARS)**

- 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**, 45<sup>th</sup> International Apicultural Congress – Apimondia 2017, 29 September – 04 October 2017, Istanbul, Turkey.
- Invited speaker on Plenary Session - Round Table „**Bee health and breeding better bees**“, 45<sup>th</sup> International Apicultural Congress – Apimondia 2017, 29 September – 04 October 2017, Istanbul, Turkey.
- Invited lecturer: **Uzunov A.**, **LOKALE ANPASSUNG: EIN WICHTIGES MERKMAL FÜR DIE ZUCHT VON HONIGBIENEN**, Carnica-Schutzkongress in Kärnten – Goldbrunnhof bei Völkermarkt, 16<sup>th</sup> September 2017, Austria.
- Lecturer: **Uzunov A.**, Büchler R. **The Basic Concept of Honey Bee Breeding Programs**, Smartbees seminar for breeding coordinators, 6<sup>th</sup> - 7<sup>th</sup> July 2017, Pulawy, Poland.
- Invited lecturer: **Uzunov A.** **First results from the research on Comino Island**, Maltese Beekeeping Association, 30<sup>th</sup> May 2017, Malta.
- 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.
- 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.
- 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.
- Invited lecturer: Uzunov A., Büchler R. **Performance testing and selection of local honey bee populations in Europe**. 23 February, Lukovica, Slovenia.
- Lecturer: Progress, results and challenges in implementing activities for testing and selection of European local honey bee populations (WP6), SMARTBEEES annual consortium meeting, Nice, France, 16<sup>th</sup> January 2017.
- 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.
- Lecturer: Uzunov A., Andonov S. **Data validation for essential statistical analysis**. Smartbees seminar for breeding coordinators, 9<sup>th</sup> - 10<sup>th</sup> November 2016, Malta.
- 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.
- Lecturer: Uzunov A., R. Büchler, K. Bienefeld, **Genetic improvement of European honey bee (Apis mellifera L.) populations**, 7<sup>th</sup> EURBEE Congress of Apidology, 7 – 9 September 2016, Cluj-Napoca, Romania.

15. Lecturer: Uzunov A., Büchler R., Chlebo R. (2016) Performance testing of honey bees., SMARTBEES WS, 11 June. 2016, Banska Bystrica, Slovakia.
16. Lecturer: Uzunov A., Büchler R. (2016) Performance testing protocol, SMARTBEES WS, 30 April, 1 May. 2016, Vilnius, Lithuania.
17. Lecturer: Uzunov A., Büchler R. (2016) Honey bees performance testing, SMARTBEES WS, 1 April. 2016, Avignon, France.
18. Invited lecturer: Uzunov A., Büchler R., (2016) Regionale Selektion vitaler Völker, Deutscher Imkerbund Züchtertagung, 11-13 March.2016, Zachenberg, Germany.
19. Lecturer: Uzunov A., Büchler R., Meixner M., (2016) Genetic improvement of *A. m. rutneri*, SMARTBEES WS, 6 March. 2016, Malta.
20. Lecturer: : Uzunov A., Büchler R., Schuller D., (2016) Performance testing for improvement of *A. m. iberiensis*, SMARTBEES WS, 3 March. 2016, Nisa, Portugal.
21. Lecturer: Uzunov A. (2015) Prekin na leglo vo letniot period, PZ Matica, 22 December, Skopje, Macedonia.
22. Lecturer: Uzunov A., Buchler R., (2015) Performance testing and selection, SMARTBEES WS, 10 October. 2015, Bucharest, Romania.
23. Invited lecturer: Uzunov A., Buchler R., (2015) Potential of brood removal method for sustainable Varroa control, 26 September, Brno, Czech Republic.
24. Invited lecturer: Uzunov A., Buchler R., (2015) Performance testing and selection, 26 September, Brno, Czech Republic.
25. Invited lecturer: Uzunov A., Buchler R., (2015) Performance testing and selection, Austrian Carnica Association, 4 July. 2015, Mieming, Austria.
26. Lecturer: Uzunov A., Buchler R.,. (2015) Performance testing and selection, SMARTBEES WS, 20 June. 2015, Athens, Greece.
27. Lecturer: Buchler R., Uzunov A (2015) Performance testing and selection, SMARTBEES WS, 13 June. 2015, Klofta, Norway.
28. Lecturer: Uzunov A., Buchler R., (2015) Performance testing and selection, SMARTBEES WS, 6 June. 2015, Sisak, Zagreb, Croatia.
29. Lecturer: Uzunov A., Buchler R., (2015) Honey bee performance testing, SMARTBEES WS, 30 May. 2015, Pulawy, Poland.
30. Lecturer: Uzunov A., Buchler R., (2015) Honey bee performance testing, SMARTBEES WS, 17 May. 2015, Belgrade, Serbia.
31. Lecturer: Uzunov A., Buchler R., (2015) Honey bee performance testing, SMARTBEES WS, 14 May. 2015, York, UK.
32. Lecturer: Uzunov A., Buchler R., (2015) Performance testing and selection, SMARTBEES WS, 9 May. 2015, Bergen, Norway.
33. Lecturer: Uzunov A., Buchler R., (2015) Performance testing and selection, SMARTBEES WS, 24 Apr. 2015, San Sebastian, Spain.
34. Lecturer: Uzunov A., Buchler R., (2015) Honey bee performance testing, SMARTBEES WS, 11 Apr. 2015, Skopje, Macedonia.
35. Lecturer: Uzunov A., Buchler R., (2015) Honey bee performance testing, SMARTBEES WS, 8 Apr. 2015, Thessaloniki, Greece.
36. 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
37. Invited lecturer: Uzunov A., Büchler R. (2015) New horizon for breeding vital European honey bees, Beekeeping Conference, 13 Feb 2015, Bologna, Italy.
38. Lecturer: Uzunov A., Büchler R., Meixner M., (2015) Performance testing protocol, RNSBB/COLOSS WS, 9 Feb, Kirchhain, Germany.
39. Invited lecturer: Uzunov A., Büchler R. (2015) Breeding vital European honey bees (SMARTBEES project), Apicultural Conference, 6 Feb, Pulawy, Poland.
40. Session moderator: The COLOSS Workshop on "Varroa control" "May 22 – 23, 2014" "Bled - SLOVENIA
41. Lecturer: Uzunov A., Büchler R. (2014) Potential of brood removal method for sustainable Varroa control, 21-22 May 2014, Bled, Slovenija.
42. Lecturer: Costa C., Uzunov A. *et al.* (2014) Is the trait "Varroa Sensitive Hygiene" present in European colonies?, 21-22 May 2014, Bled, Slovenija.
43. 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.

## COORDINATION AND PARTICIPATION IN PROJECTS, PROGRAMS AND JOURNALS

1. Expert - Bilateral project: Introduction of Breeding Technology from Germany to Promote the Diversity, Conservation and Utilization of Native Honey Bees in China, Germany-China bilateral cooperation in the framework of "Sino—Germany Cooperation on Agricultural Science and Technology" 2017 - ongoing
2. 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 - ongoing
3. Editorial committee member in specialized beekeeping journal "Srpski Pcelar", Serbia, 2016 – ongoing
4. Expert - Bilateral project Austria-Macedonia: Honey bee colony losses in Austria and Macedonia: risk analysis and economic impact. 2016 - ongoing
5. Coordinator of breeding activities within Work Package 6 / FP7 Project SMARTBEES. 2015 - ongoing
6. Project leader on Andermatt BioVet GmbH (Switzerland) research study on alternative methods for usage of oxalic acid against *Varroa destructor*. 2013 – 2016.
7. 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.
8. Expert in Establishing a Bee-Cooperative Enhancing project – Zhupa Valley Region, Kosovo, 2012, NGO ISPIA (Italy)
9. 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
10. Macedonian Management Committee member in COST Action FA 0803 - Prevention of honeybee COlony LOSSes, 2008 - 2013
11. Coordinator of research activities in MacBee (Macedonian association for preservation of Macedonian honey bee (*Apis mellifera macedonica*), 2011 – ongoing.
12. Editorial committee member in specialized beekeeping journal "Pcelarski Zurnal", Belgrade, Serbia, 2011 – on going
13. 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
14. 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

15. Coordinator and lecturer of long-term educational project entitled Good Beekeeping Practice - Project financed by MAASP (Swedish International Development Cooperation Agency), 2008/2009
16. 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
17. Junior scientist in the Bilateral project Macedonia / Germany (GTZ project) entitled Preparation of National beekeeping breeding program in Republic of Macedonia, 2007/2008
18. 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
19. 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
20. Project assistant in the project Initial activities in agro biodiversity conservation in Republic of Macedonia, GTZ project, 2003/2004
21. Project assistant of SENTER/RDP Pilot project entitled Registration and identification of sheep in Macedonia, 2003
22. 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 Organizations and Partnership Associations" in INWENT center in Germany, 2003
8. Participant of training workshop "Management of Organizations 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. 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.
2. 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.