

## CURRICULUM VITAE



**NAME:** Rustem ILYASOV

**ACADEMIC RESEARCH DEGREE:** Doctor of Science (Sc.D. / D.Sc.) in Biology

**POSITION:** Research Associate / Postdoctoral researcher

**AFFILIATION:** Institute of Biochemistry and Genetics (IBG), Russian Academy of Sciences (RAS) (UFA) / Incheon National University (INU), Korea

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## EDUCATION

**Elementary, middle, and high schools:** Ufa, RUSSIA.

**M.Sc. (June, 2002):** Department of Biology, Bashkir State University (BSU), Ufa City, Validi Street 32, BSU, 450076, RUSSIA.

**Ph.D. degree (March, 2006):** Laboratory of Insects' Biochemistry and Adaptiveness, IBG RAS (UFA)

**Ph.D. Thesis title:** "Polymorphism of *A. m. mellifera* in the Urals".

**Ph.D. Supervisor:** Prof Alexey NIKOLENKO (e-mail: [a-nikolenko@yandex.ru](mailto:a-nikolenko@yandex.ru)), Head of the Laboratory, Laboratory of Insects' Biochemistry and Adaptiveness, Institute of Biochemistry and Genetics, 71 Prospect Oktyabrya, Ufa, RUSSIA, 450054

**Sc.D. degree (March, 2017):** Laboratory of Insects' Biochemistry and Adaptiveness, IBG RAS (UFA)

**Sc.D. Thesis title:** "The genetic structure and phylogenetic position of the Dark European honeybees *A. m. mellifera* of the Ural and Volga region population".

**Sc.D. Consultant:** Prof Alexey NIKOLENKO.

**Postdoctoral Fellow (2017-2019):** Sensory Neurobiology and Brain-science Laboratory (SNBL), Division of Life Sciences, Major of Biological Sciences, Incheon National University (INU), Incheon, SOUTH KOREA.

**Postdoctoral Academic Advisor:** Prof. Hyung Wook KWON (e-mail: [hwkwon@inu.ac.kr](mailto:hwkwon@inu.ac.kr)), Head of the Laboratory, Sensory Neurobiology and Brain-science Laboratory, 119 Academy-ro, INU, Yeonsu-gu, Incheon, SOUTH KOREA, 22012.

## RESEARCH INTERESTS AND EXPERTISE

Molecular biology and genetics, population genetics, evolution and phylogenetics, taxonomy, ecology, biochemistry, zoology, entomology, viruses, bioinformatics, honeybee, pollination, Varroa, microsporidia, Nosema, Ascospaera, mitochondrial genome, SNP, microsatellites, behavioural and conservation genetics.

## AWARDS AND HONORS

- 1. Grant of Russian foundation of basic researches (RFBR):** 02-04-97925-p2002agidel\_a “Molecular genetic basis of the Bashkir population of the dark European honeybees’ adaptive potential” (2002 – 2004) (Performer);
- 2. Grant of RFBR:** 05-04-97916-p\_agidel\_a “A Genetic structure and resistance of the Colorado potato beetle population in the Republic of Bashkortostan” (2005 – 2007) (Performer);
- 3. Grant of RFBR:** 05-04-97945-p\_agidel\_a “A Genetic structure and resistance of the Bashkir population of the dark European honeybees” (2005 – 2007) (Performer);
- 4. Grant of RFBR:** 06-04-08183-ofi “Molecular genetic basis for the dark European honeybees breeding” (2006 – 2008). (Performer);
- 5. Grant of RFBR:** 07-04-08274-z “Participation at the International Congress of Insect Biotechnology & Industry (ICIBI)” (2007) (Supervisor);
- 6. Grant of RFBR:** 08-04-97039-p\_povolzhye\_a “Gene pool of the dark European honeybees and genetic processes in the borders” 2008 - 2010 (Performer);
- 7. Grant of RFBR:** 11-04-97078-p\_povolzhye\_a “Gene geographical analysis of the Burzyan population of the dark European honeybees” (2011 – 2013) (Performer);
- 8. Grant of RFBR:** 13-04-01802-a. “Role of the expression and polymorphism of the gene Vitellogenin in the life span regulation of the dark European honeybees” (2013 – 2015) (Performer);
- 9. Research Fellowship from the Government of the Republic of Bashkortostan:** scientific project “Population of the dark European honeybees in the Republic of Bashkortostan” (2008) (Supervisor);
- 10. Research Fellowship from the Government of the Republic of Bashkortostan:** scientific project “Genetic structure of the Northern population of the dark European honeybees in the Republic of Bashkortostan” (2011) (Supervisor);
- 11. Grant of RFBR:** 16-14-0000\_D Publishing a Book “Dark forest honeybees *Apis mellifera mellifera* L. of the Republic of Bashkortostan” (2016) (Supervisor).

## RESEARCH SKILLS

### 1. Molecular Biology

DNA and RNA isolation from insects, animals, viruses, bacteria, plants, fungi; gene cloning; qPCR and RT-PCR; DNA and RNA sequence analysis, fluorescent microscopy.

### 2. Genetics

Nuclear and mitochondrial DNA mutation frequency analysis in honeybees, population genetic and phylogenetic analysis of animals and plants, submission DNA and RNA sequences into the GenBank.

### 3. Biochemistry

Protein isolation, mitochondrial isolation, western blotting, protein analysis, peptide analysis.

### 4. Computer skills

GENEPOP, POPULATION, STATISTICA, STRUCTURE, STATGRAFICS PLUS, DNASTAR, CHROMAS, MEGA, NETVIZ, NETWORK, UNIPRO UGENE, PHYLIP, PRIMER PREMIER, SPSS, BLAST, CLC GENOMICS WORKBENCH.

### 5. Teaching

Curriculum design, syllabus construction, lecturing, supervisor of Bachelors and Masters of Science.

## PROFESSIONAL MEMBERSHIPS

- 1. SICAMM** (<http://www.sicamm.org>);
- 2. COLOSS** (<http://coloss.org>);
- 3. BIBBA** (<http://bibba.com>);

4. IBRA (<http://www.ibrabee.org.uk>);
5. BEEKEEPING SOCIETY OF THE REPUBLIC OF BASHKORTOSTAN (<http://roopb.ru>);
6. SMARTBEES (<http://www.smartbees.eu>);
7. EDITORIAL BOARD OF THE RUSSIAN JOURNAL OF BEEKEEPING “PCHELOVODSTVO” (MOSCOW) (<http://beejournal.ru>);
8. EDITORIAL BOARD OF THE SCIENTIFIC JOURNAL “BIOMICS” (UFA) (<http://biomics.ru>).

### PUBLICATIONS

1. **Ilyasov, R. A.**; Petukhov, A. V.; Poskryakov, A. V.; Nikolenko, A. G. (2007) Local honeybee (*Apis mellifera mellifera* L.) populations in the Urals. **Russian Journal of Genetics**, 43 (6): 709 - 711.
2. **Ilyasov, R. A.**; Kutuev, I. A.; Petukhov, A. V.; Poskryakov, A. V.; Nikolenko, A. G. (2011) Phylogenetic relationships of dark European honeybees *Apis mellifera mellifera* L. from the Russian Ural and West European populations. **Journal of Apicultural Science**, 55 (1): 67 - 76.
3. **Ilyasov, R. A.**; Gaifullina, L. R.; Saltykova, E. S.; Poskryakov, A. V.; Nikolenko, A. G. (2012) Review of the expression of antimicrobial peptide defensin in honey bees *Apis mellifera* L. **Journal of Apicultural Science**, 56 (1): 115 - 124.
4. **Ilyasov, R. A.**; Gaifullina, L. R.; Saltykova, E. S.; Poskryakov, A. V.; Nikolaenko, A. G. (2013) Defensins in the Honeybee Antiinfectious Protection. **Journal of Evolutionary Biochemistry and Physiology**, 49 (1): 1 - 9.
5. **Ilyasov, R. A.**; Poskryakov, A. V.; Nikolenko, A. G. (2015) New SNP markers of the honeybee vitellogenin gene (Vg) used for identification of subspecies *Apis mellifera mellifera* L. **Russian Journal of Genetics**, 51 (2): 163 - 168.
6. **Ilyasov, R. A.**; Poskryakov, A. V.; Petukhov, A. V.; Nikolenko, A. G. (2015) Genetic differentiation of local populations of the dark European bee *Apis mellifera mellifera* L. in the Urals. **Russian Journal of Genetics**, 51 (7): 677 - 682.
7. Kaskinova, M. D.; **Ilyasov, R. A.**; Poskryakov, A. V.; Nikolenko, A. G. (2015) Analysis of the genetic structure of honeybee (*Apis mellifera* L.) populations. **Russian Journal of Genetics**, 51 (10): 1033 - 1035.
8. **Ilyasov, R. A.**; Poskryakov, A. V.; Nikolenko, A. G. (2016) Seven genes of mitochondrial genome enabling differentiation of honeybee subspecies *Apis mellifera*. **Russian Journal of Genetics**, 52 (10): 1062 - 1070.
9. **Ilyasov, R. A.**; Poskryakov, A. V.; Petukhov, A. V.; Nikolenko, A. G. (2016) Molecular genetic analysis of five extant reserves of black honeybee *Apis mellifera mellifera* in the Urals and the Volga region. **Russian Journal of Genetics**, 52 (8): 828 - 839.
10. **Ilyasov, R. A.**; Poskryakov, A. V.; Petukhov, A. V.; Nikolenko, A. G. (2016) New approach to the mitotype classification in black honeybee *Apis mellifera mellifera* and Iberian honeybee *Apis mellifera iberiensis*. **Russian Journal of Genetics**, 52 (3): 281 - 291.

### CONFERENCES

1. International IV conference “BIODIVERSITY, ECOLOGY, ADAPTATION, EVOLUTION” (Odessa, Ukraine, 2009) (oral presentation).
2. International congress APIMONDIA (Monpellier, France, 2009) (oral presentation).
3. International XLVII conference “NAUKOWA KONFERENCJA PSZCZELARSKA” (Pulawy, Poland, 2010) (poster).
4. International XLVIII conference «NAUKOWA KONFERENCJA PSZCZELARSKA» (Pszczyna, Poland, 2011) (poster).
5. International 12<sup>th</sup> SICAMM conference (Landquart, Switzerland, 2012) (poster).
6. International 13<sup>th</sup> SICAMM and 50<sup>th</sup> BIBBA conference (Llangollen, United Kingdom, 2014) (oral presentation).
7. International 6<sup>th</sup> conference EURBEE (Murcia, Spain, 2014) (poster).
8. International 14<sup>th</sup> SICAMM conference (Lunteren, Netherlands, 2016) (oral presentation).

## PROFESSIONAL REFEREES

### 1. Norman CARRECK, Ph.D.

Position: Chief Researcher,

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### 3. Alexei V. CHEMERIS, Sc.D.

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### 4. Hyung Wook KWON, Ph.D.

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Affiliation: Incheon National University (INU) (<http://life.inu.ac.kr>),

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### 5. Jun-ichi TAKAHASHI, Ph.D.

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### 6. Thomas Dyer SEELEY, Ph.D.

Position: Horace White Professor in Biology,

Affiliation: Cornell University (CU) (<https://www.cornell.edu>),

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### 7. Arkady S. LELEY, Sc.D.

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