

Avtor e-mail: apismell@hotmail.com

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**Materials  
of IV International  
Young Scientists conference**

# **Biodiversity. Ecology. Adaptation. Evolution**

**dedicated to 180th anniversary  
from the birth of famous physiologist  
Ivan Sechenov  
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Fahretdinova S.A., Ilyasov R.A., Poskryakov A.V., Nikolenko A.G.  
Prospects of wild bee populations preservation of burzyan districts  
in bashkortostan *apis mellifera mellifera* L. Materials of IV  
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**PROSPECTS OF WILD BEE POPULATIONS  
PRESERVATION OF BURZJAN DISTRICTS IN  
BASHKORTOSTAN *APIS MELLIFERA MELLIFERA* L.**

**Fahretdinova S.A., Ilyasov R.A., Poskryakov A.V., Nikolenko A.G.**

*Institute of biochemistry and genetics of Ufa scientific centre of the Russian Academy of sciences, Ufa, Russia*

E-mail: apismell@hotmail.com

The area of a honeybee of subspecies *Apis mellifera mellifera* L. (A bee of Middle Russian race) distribution covered extensive territory from the Britain to the Urals, along the northern border of the distribution of this species. Evolution of this subspecies took place in severe environmental conditions and as a result it has got the properties which have provided advantages over other subspecies. Throughout the XX-th century the area of *Apis mellifera mellifera* subspecies reduced as a result of hybridization with other subspecies. Several populations of *Apis mellifera mellifera* are known in the Urals. In Bashkiria it is northern and southern (burzjanski) populations. Burzjan population is unique because it is rather large in size, it is highly isolated and is less subjected to anthropogenous influences.

Besides, cultivation of wild bees in Burzjansky area is preserved. Bees population from apiaries plays a great role in wild bees preservation. There is constant exchange between wild bees and bees from apiaries. Population of wild bees replenishes at the expense of bees from apiaries.

The example of South Ural forest reserve demonstrated that the disappearance of villages was followed by wild bees. Therefore, to guarantee preservation of wild bees population, it is necessary to study genetic processes not only on the territory of forest reserve «Shulgan-Tash» (where all the researches were mainly carried out). It is very important to investigate the population of the whole this area.

**THE AGE-SEXUAL STRUCTURE OF THE POPULATIONS OF  
COMMON SYNANTHROPIC SPIDERS OF CHERNIVTSI CITY**

**Fedoryak M., Sitnikova I.**

*Juri Fedkovich Chernivtsi National University, Chernivtsi, Ukraine*

E-mail: mariyafed@yahoo.com

Studies were conducted on the basis of the material, collected during 2006-2009 in the buildings of dwellings and enterprises from territory of Chernivtsi city by the method of manual collection with further fixation in 70 ° alcohol. For of the most common species the period when the females with the cocoons are the most abundant has been established: *Pholcus phalangoides* (Fuesslin, 1775) - in May; *Ph. alticeps* Spassky, 1932 - in July and *Parasteatoda tepidariorum* (C.L. Koch, 1841) - in June.

It has been established that all three spiders species which prevail in the communities, belong to everychronic, since they are characterized by prolonged