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591.576.42:577.35.

COLUBER ELAPHE,

03.00.08 - , 03.00.13 -

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297
1803
                (
                                    2003).
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Coluber
                                Elaphe,
                                         Coluber
                                                       Elaphe
                                                              1965,
                                               (1956, 1960,
                                                                     1992),
               (1997),
                                   (2000),
                                                      (2011).
                                          Coluber
                                                    Elaphe
                   01.97.0005384, 1997-1998 ), «
                                                             01.97.0005378,
1998-2000
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01.200009888, 2000-2003
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• - Coluber Elaphe;

**■** 

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Coluber Elaphe, -

• Coluber Elaphe

• - Coluber tyria Elaphe dione;

Coluber tyria Elaphe dione;

• Coluber Elaphe;

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Coluber Elaphe

(5.05.2011),

(26.03.2012).

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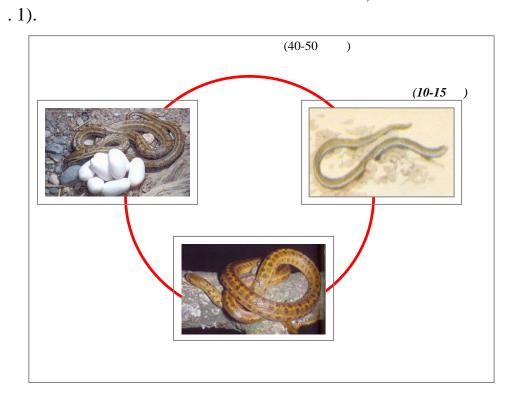
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Coluber
  Elaphe,
                                           1997-2011
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              1953),
                                       , 1949).
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          HW-55, HW-65.
TSK-
                                                              Rana temporaria.
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1963).
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al.,
      1963).
                         . (Folch et al., 1957)
                                                                   (Hara, Rudin,
1978).
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7-30
                  10^{12}
                                            (S hneider, Hogeboom, 1951).
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1955).
                                                                           in vivo
                                              (Lowry et al., 1951)
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Excel.
                  Elaphe,
       Coluber
                                                                    Coluber tyria.
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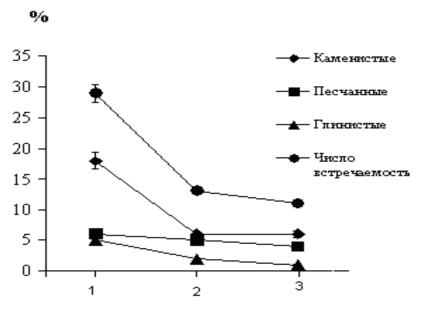
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, - Elaphe dione

- Coluber ravergieri. 1200 21 . 189-223 , 70-99 ( . 2).

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1-Coluber ravergieri, 2- Coluber tyria, 3-Elaphe dione

. 2.

, 83-90%. . 25

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Coluber ravergieri

,	,	,
86±1,2	56±0,8	2,1±0,1
240±1,4	180±0,2	6,9±0,4
1100±1,8	840±1,0	145±1,4

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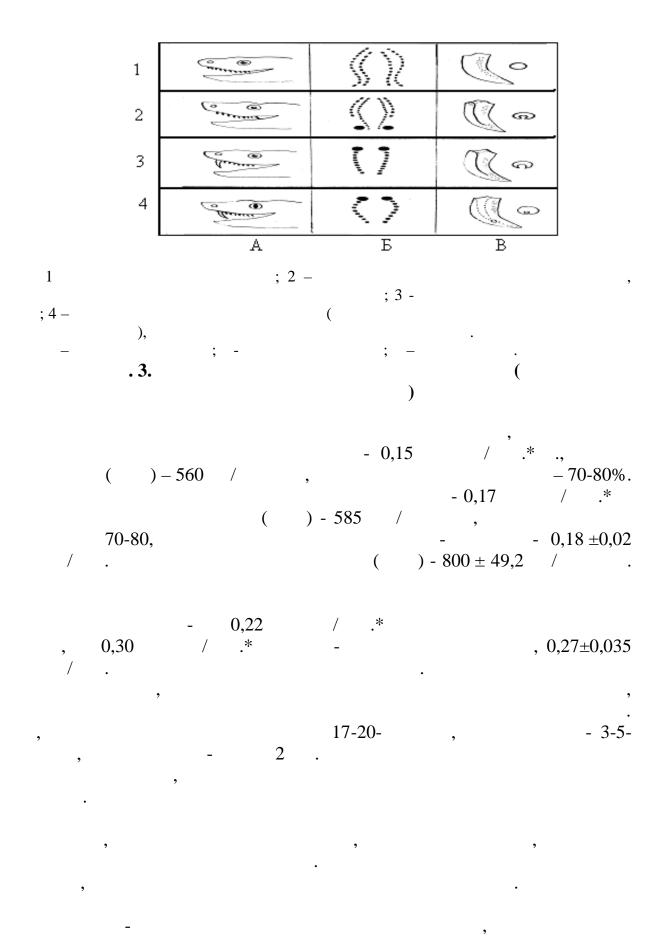
Coluber, Elaphe .

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0,4
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oluberin vivo laphe.

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(n=9-12)

$\mathbf{V_0}$	$V_3$	$V_4$		/0	
		5			
$28,4\pm 2,2$	84,3±6,0	26,6±4,2	3,47	1,8±0,16	
55,6±4.3	68,2±3,3	42,4±2,7	1,70	1,79±0,18	
44,4±3,8	88,4±9.1	39,4±4,6	2,7	1,75±0,34	
42.3±7,8	87,3±9.0	38,4±2,4	2,22	1,73±0,28	

P < 0.05 (n = 8 - 12). - 7.96 / , - 9,65 - 9,84

in vivo

7,95 /

9,65 / 9,84 /

 $V_{4} \\$ 

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1-5×10<sup>-6</sup>
      Coluber ravergieri
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			,		Coluber	Elaphe,	
		,			,		
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1.
                        laphe.
              oluber
                                              Coluber ravergieri, Coluber tyria
Elaphe dione.
      2.
                                                      ravergieri)
                                         (Coluber
                                                   (Coluber tyria)
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      3.
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      4.
                                                          C. ravergieri, C. tyria
Elaphe dione
                                                             Coluber ravergieri,
      5.
Coluber tyria, Elaphe dione.
                                                       LD_{50}
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      6.
                                                               Coluber ravergieri
               - Coluber ravergieri.
      7.
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8.

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1.
    . . Anthony T.Tu.
                                                                       Natrix
   tessellata (Brandt)
                                             , 2003. - 2. - .8-12.
2.
                                                                     Coluber
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   ravergieri
            , 2003. - 1-2. - .13-15.
3.
                                     (Coluber tyria Linn eus)
              (Elaphe
                        dione
                                 Pallas)
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                                                                    , 2003. -
     1-2.- . 37-42.
4.
                                  . Colubridae)
                                            , 2003. - 1-2.- . 55-70.
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5.
   Colubridae //
                                             , 2003. - 1-2.- .32-34.
6.
                               (Elaphe dione Pallas)
                                                            . Colubridae
                  , 2004. - 1.- .99-103.
7.
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         , 2004. - 5/6.- C.41-43.
8.
                            Coluber tyria
                                             . Colubridae
                                                                , 2004. -
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      .56-61.
9.
                                    Colubridae
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                                                             , 2005. -
    .16-18.
10.
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11. Akhmedov K., Kazakov I., Abubakirova M. I., Reimbaeva R.S. Effect of
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snake venom (Duvernoys gland secretions Coluber revergieri on frog nerve-

	muscle 1	preparati	on //	15th	Anı	nual Co	ongre	ess on	Anim	al Pland	and	l Micr	bio	l
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, 60-. 2011.- .29.

13.Kazakov. I., Abubakirova M.I., Reymbayeva R.S., Rahmatullaev E.A. Toxicology of Colubridae (rear-fanged snakes) venom from Uzbekistan // V –International conference devoted to twenty years creation of scientific and technical society of Uzbekistan "TINBO" "The strategy of development of science and technology in XXI century".-Tashkent., Uzbekistan, 6-7 July 2011. -P.140-141.

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      - Coluber ravergieri (
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## **RESUME**

Thesis of Reymbaeva Roza Saparbaevna on the scientific degree competition of the doctor of Philosophy in biology on specialities 03.00.08 - zoology and 03.00.13 - physiology of the person and animals, subject: "A characteristic of the morpho-biological and membrane activity of the venom of *oluber* and *laphe*"

**Key words**: snake, morphology, biology, venoms, neurotoxins, ion channels, mitochondria.

**Subjects of research:** snakes: Coluber ravergieri, Coluber tyria and Elaphe dione.

**Purpose of work:** the purpose of this work is the study of the ecological-biological characteristic of the *oluber* and *laphe* snakes, comparative studies of the membrane activity of the secrets venomous snakes of Uzbekistan, the characteristic of their biological traits.

**Methods of research**: zoological, ecological, physiological, biophysical and biochemical methods of work are applied in this work.

**The results obtained and their novelty:** several snake species of the *oluber* and *laphe*, in relation to their daily and seasonal activity, conditions of habitation and breeding in biogeocenoses of Uzbekistan have been characterized.

During the study of the effect of crude venoms of *oluber* and *laphe* snakes on biological membranes, neurotoxic components, which are the basis for further studies on the isolation of individually pure neurotoxins, were revealed.

**Practical value**: the resultes which were taken are very important to produce the way of keeping biodifference types of snekes being learnt in Uzbekistan.

It is possible to use zootoxin effect of the animals under study on the functional parameters of membranes create prerequisites for the use of these venoms and target tools in studies in the sphere of membranology and zootoxicology.

**Degree of embed and economic effectivity:** results obtained during the study of venoms and components are a prerequisite for the search of new pharmacological preparations in the system of public health for the treatment of various cardio-vascular diseases, including the prophylaxis of blood coagulation.

**Field of application**: nature conservation, public health, physiology, biophysics.