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BLINK CONDITIONED REFLEX DIFFERENCE IN THE STUDENTS FROM EGYPT, MOROCCO AND SUDAN IN DEPENDENCE ON THEIR DOMINANT EXTREMITY

Conditioned reflexes, higher nervous activity base are studied in humans and animals in different places of our Earth. There are works about new method of its development in rabbits performed by Spanish scientists [4, p. 14809-14821], olfactory reflexes in Drosophilas [14, p. 12867], acoustic conditioning in rates done by British psychologists [11, p. 279-287], classical olfactory conditioning in fruit fly Bactrocera dorsalis done by Chinese scientists [12, p. 0122155], in Drosophila melanogaster of French physiologists [6, p. 1335-1348], habituation, sensitization and Pavlovian conditioning in Drosophila melanogaster performed by Turkish scientists [5, p. 13], in the honeybee realized by German scientists [13, p. 609-625], the American scientists works about habituation and dishabituation in Drosophila [7, p. 166-175], olfactory jump reflex habituation, dishabituation and sensitization in Drosophila and effects of classical conditioning mutations [1, p. 1-18; 2, p. 59-71; 10, p. 45-58], 20-30 Hz brain activity modulation with salience in these insects [18, p. 579-586], pavlovian higher-order conditioning role in investigating the emotional learning and memory neural substrates [8, p. 257-266], startle reflex modulation across species according to the Swedish scientists work [3, p. 53-60].

As for conditioned reflexes performance in humans we met the Americans work about modulation of eyeblink and postauricular reflexes during the anticipation and viewing of food images in the 60-yeared examined [9, p. 509-517]. The scientists from Germany, UK and Netherlands performed the work about cerebellar cortex and cerebellar nuclei activation during eyeblink conditioning [17, p. 1228-1239], the Americans showed correlation between Purkinje cells amount and eyeblink conditioning in humans and rabbits [19, p. 341-366], studied task-dependent adaptation and long-term change in the human soleus H-reflex separately [16, p. 5784-5792] and with the Japanese [20, p. 1439-1446], with the French – about pain attenuation after Pavlovian conditioning with beep tones [15, p. 88710].

According to our results the fastest eyeblink reflex development was in the students from Egypt and Morocco (after 2-3 repeatings of air flow and board

showing). It was the slowest in the students from Sudan (8-10 repeatings). More repeatings were necessary for left-handers comparatively to the right-handers among the examined.

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