

Можно думать, что экспрессия этих белков осуществлялась на самых ранних этапах эволюционного формирования внутриклеточного сократительного аппарата двигательной ткани как у беспозвоночных, так позвоночных животных. Проведенное исследование позволит дополнить картину эволюционного формирования двигательной мышечной ткани.

ФИНАНСИРОВАНИЕ РАБОТЫ

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СОБЛЮДЕНИЕ ЭТИЧЕСКИХ СТАНДАРТОВ

Авторы заявляют, что все манипуляции с животными соответствовали нормам российского законодательства, а также рекомендациям Guide for the Care and Use of Laboratory Animals (<http://www.nap.edu/openbook.php?isbn=0309053773>).

КОНФЛИКТ ИНТЕРЕСОВ

Авторы заявляют об отсутствии конфликтов интересов.

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IMMUNOFLUORESCENT IDENTIFICATION OF DYSTROPHIN, ACTIN, MYOSIN LIGHT AND HEAVY CHAINS IN SOMATIC MUSCLE CELLS OF EARTHWORM *Lumbricus terrestris*

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In muscle cells of the motor muscles of the earthworm *Lumbricus terrestris* dystrophin, actin, fast and slow isoforms of myosin heavy chains were identified by fluorescence microscopy. It can be assumed that the expression of these proteins was carried out at the earliest stages of the evolutionary formation of the intracellular contractile apparatus of the motor tissue in both invertebrates and vertebrates. This study will complement the picture of the evolutionary formation of motor muscle tissue.

Keywords: dystrophin, actin, myosin, somatic muscle, annelids