Three-dimensional analysis of the morphogenesis of nerve branches and vessels distributed to the heart and bronchial organs of embryos, using whole-mount immunohistochemical staining and moleculohistoochemical methods.

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Three-dimensional analysis of the morphogenesis of nerve branches and vessels distributed to the heart and bronchial organs of embryos, using whole-mount immunohistochemical staining and moleculohistoochemical methods.

methods.
Research Project
Project/Area Number
12670010
Research Category
Grant-in-Aid for Scientific Research (C)
Allocation Type
Single-year Grants
Section
一般
Research Field
General anatomy (including Histology/Embryology)
Research Institution
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Project Period (FY)
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Keywords

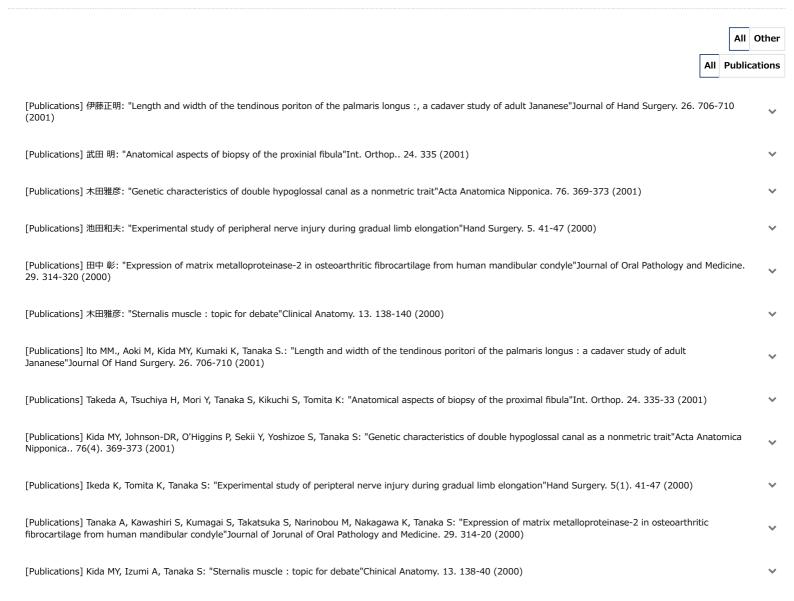
development / peripheral nerve / heart / humans / house shrew / chick / rat / immunolhistochemistry

Research Abstract

In year of 2000, the branches of the synpathetic nerve which reach the heart through the venous porta was newly discovered in the hearts of house shrew (Smcus miriws). These nerve branches were observed to originate from the sympathetic trunk, and to course the azygos vein which course in parallel with this sympathetic trunk. Thereafter, these sympathetic (cardiac) nerve branches take a course along the brachiocephalic and superior caval vein, - entering the venous porta of the heart. These nerve branches are not observable through the common anatomical methods, and have not described in scientific papers. In our study, the existence of these heart nerve branch of this sympathetic nerve were clarified-by the method of what is called "whole-mount immunohistochemical staining method".

In 2001, on the base of the data mentioned above, we researched concerning the existence of the cardiac nerve of the sympathetic nerve trunk origin in human beings. The observation area of humans is greatly ... • More

Research Products (12 results)



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