**Title: Three-dimensional analysis of interstitial cells in the smooth muscle layer of murine vas deferens using confocal laser scanning microscopy and FIB/SEM tomography**

**Tasuku Hiroshige1\*, Kei-Ichiro Uemura2, Shingo Hirashima1, Kiyosato Hino1, Akinobu Togo3, Keisuke Ohta1, 3, Tsukasa Igawa2 and Kei-Ichiro Nakamura1**

1Division of Microscopic and Development Anatomy, Department of Anatomy, Kurume University School of Medicine, Kurume, 830-0011, Japan; 2 Department of Urology, Kurume University School of Medicine, Kurume, 830-0011, Japan; 3 Advanced Imaging Research Center, Kurume University School of Medicine, Kurume, 830-0011, Japan

**Corresponding author**: Dr. Tasuku Hiroshige, Division of Microscopic and Development Anatomy, Department of Anatomy, Kurume University School of Medicine, Kurume, 830-0011, Japan

E-mail: hiroshige\_tasuku@med.kurume-u.ac.jp

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**Supplementary Table S1**

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| --- | --- | --- | --- |
| **Primary antibody** | **Host** | **Working dilution** | **Source** |
| PDGFR-α | Goat | 1:400 | Catalog no. AF1062; R&D systems |
| β3-tubulin | Rabbit | 1:500 | Catalog no. ab18207; abcam |
| Iba-1 | Rabbit | 1:250 | Catalog no. 019-19741; wako |
| αSMA | Rabbit | 1:700 | Catalog no. ab5694; abcam |
| connexin43 | Rabbit | 1:1000 | Catalog no. ab34710; abcam |

Details of the primary antibodies

Supplementary Figure S1

ゲームの画面

低い精度で自動的に生成された説明

Reconstructed sequential 3D immunofluorescence images for β3-tubulin (red). (**a**) Reconstructed sequential 3D immunofluorescence images for PDGFRα (green) and β3-tubulin (red). (**b**) Sequential high-magnification immunofluorescence images of frozen sections for PDGFRα (green) and β3-tubulin (red). (**d-k**) The same images following deconvolution and 3D reconstruction using the Avizo software (version 9.1.1) available at <https://www.fei.com/software/avizo3d/>. Scale bar: 20 µm (**c-j**).

Supplementary Figure S2

**グラフィカル ユーザー インターフェイス, アプリケーション

自動的に生成された説明**

Reconstructed sequential 3D immunofluorescence images for Iba-1 (red). (**a**) Reconstructed sequential 3D immunofluorescence images for PDGFRα (green) and Iba-1 (red). (**b**) Sequential high-magnification immunofluorescence images of frozen sections for PDGFRα (green) and Iba-1 (red). (**c-j**) The same images following deconvolution and 3D reconstruction using the Avizo software (version 9.1.1) available at <https://www.fei.com/software/avizo3d/>. Scale bar: 20 µm (**c-j**).

Supplementary Figure S3

グラフィカル ユーザー インターフェイス が含まれている画像

自動的に生成された説明

Spatial relationships between two interstitial cells (ICs) and smooth muscle cells (SMCs). (**a, b**)Spatial relationships between the two ICs and nerves. (**c**) 3D reconstruction of the mitochondria and lysosomes in ICs. (**d**) Oblique view of the 3D reconstructed mitochondria and lysosomes in the IC (inset of (**d**)). For better visualization, object surfaces are color-coded; IC, light green (**a-c**), transparent green (**d**); nuclei, blue (**a-d**); smooth muscle cell, coral (**a, b**); nerve, yellow (**c**); mitochondria, light green (**d**); lysosomes, purple (**d**). The same images following deconvolution and 3D reconstruction using the Avizo software (version 9.1.1) available at [https://www.fei.com/software/avizo3d/.](https://www.fei.com/software/avizo3d/)