

Three-dimensional ultrastructural and histomorphological analysis of the periodontal ligament with occlusal hypofunction via focused ion beam/scanning electron microscope tomography

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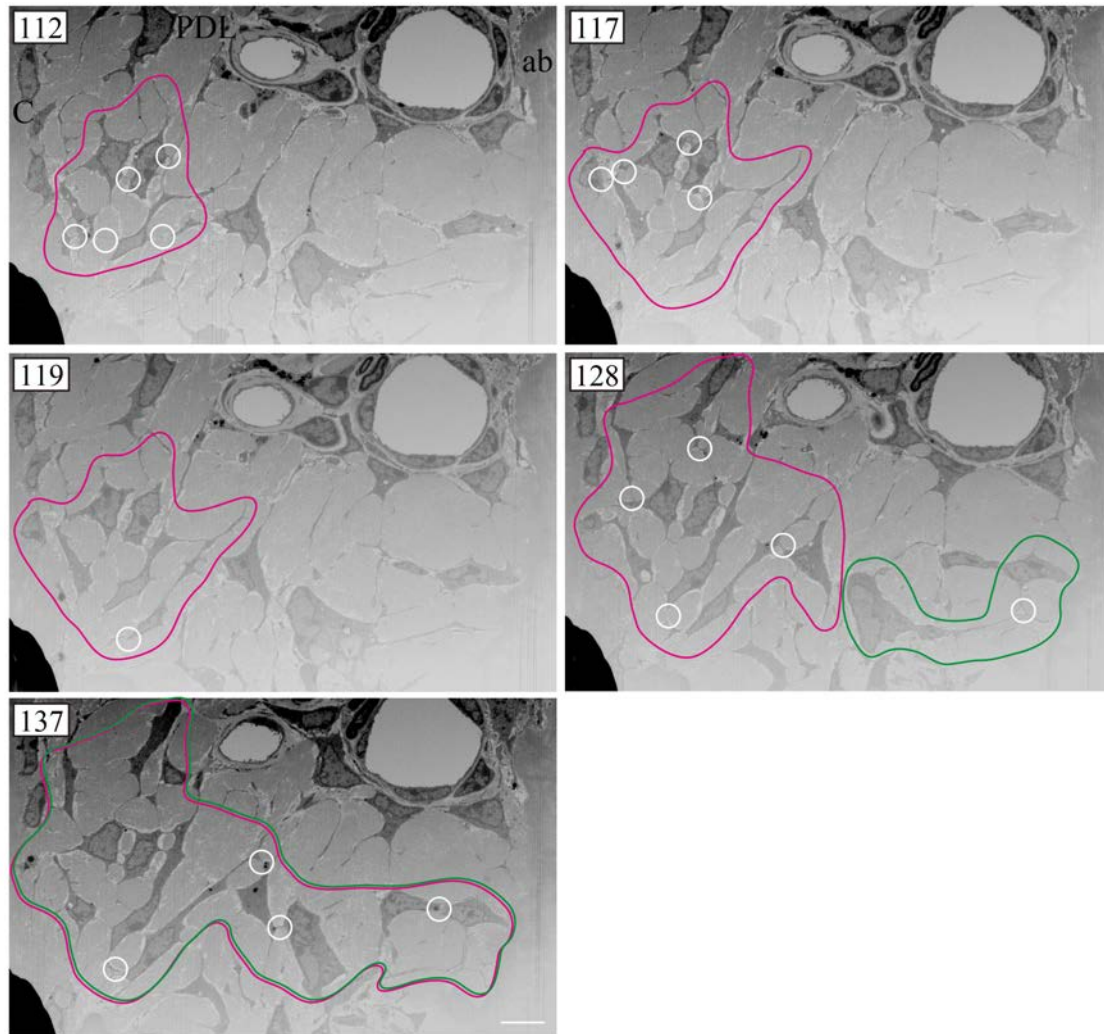
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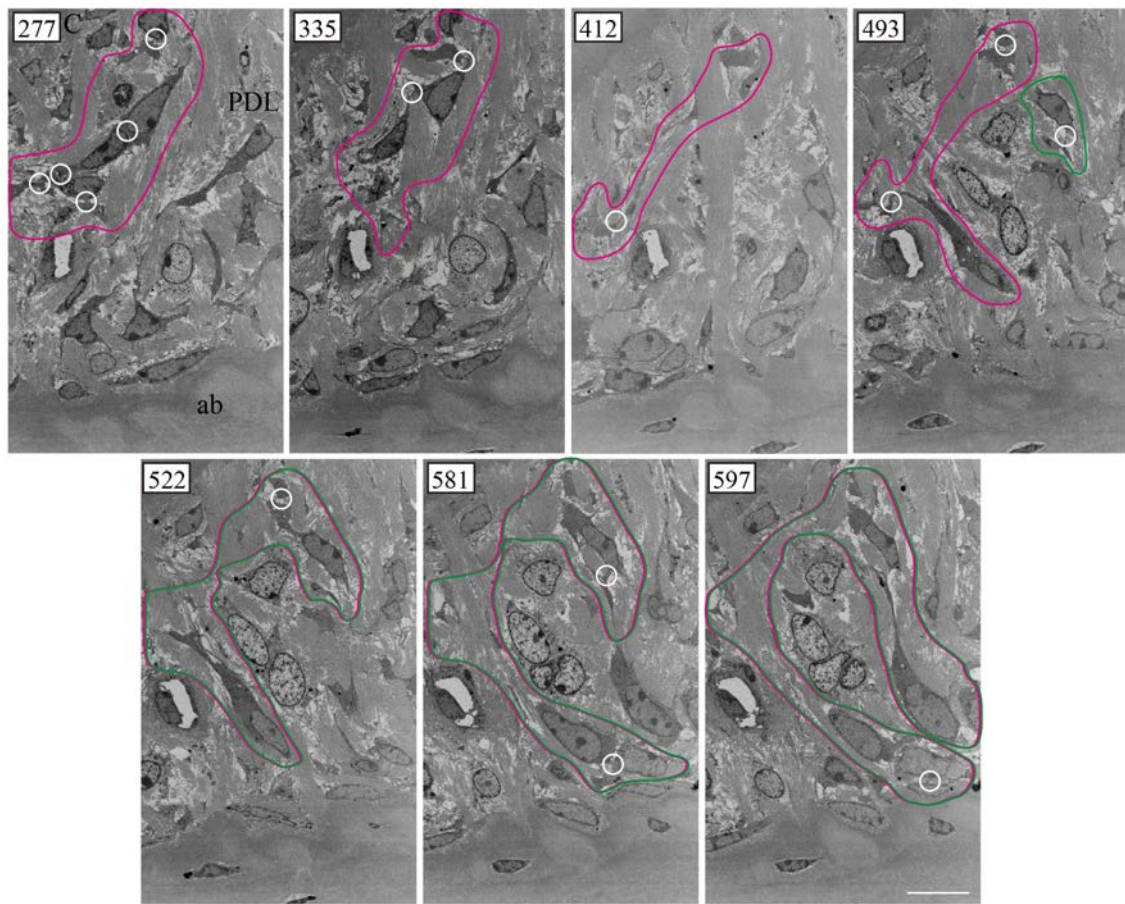
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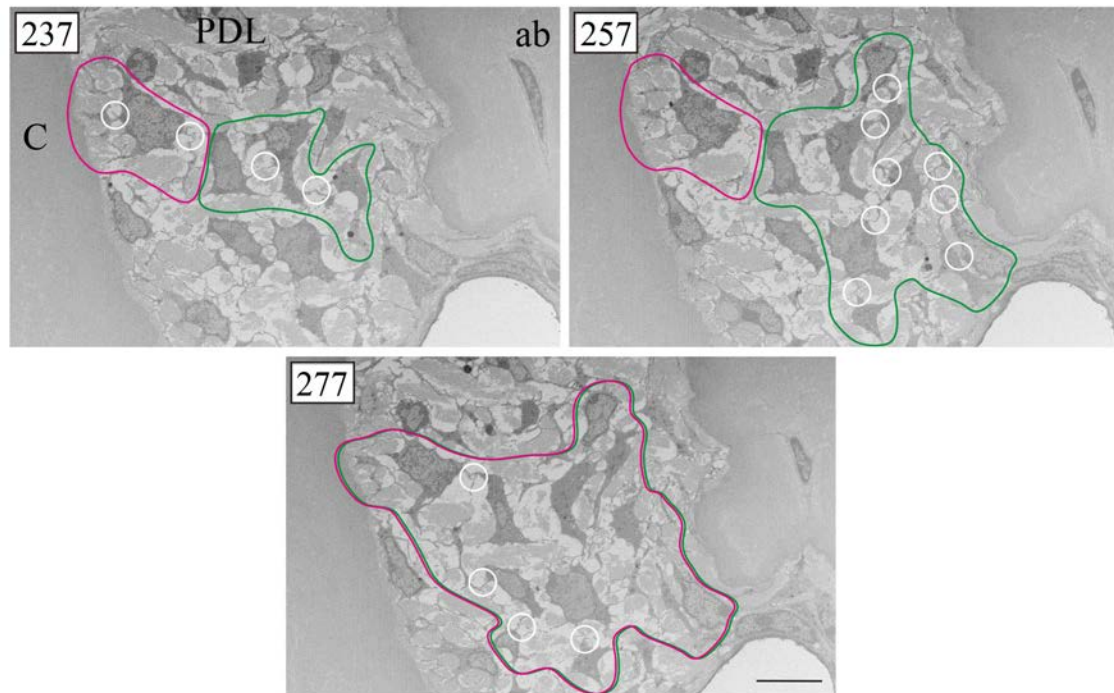
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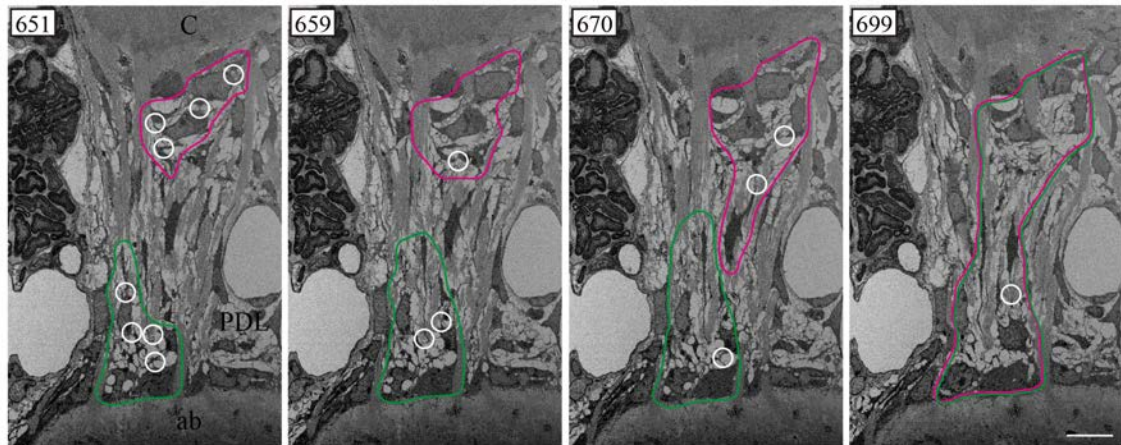
Supplementary Fig. S1 Serial cross-sections imaged via focused ion beam/scanning electron microscopy tomography for the control group in oblique fibre area of control group. White circles and ellipses represent intercellular interactions. Magenta and green regions represent regions of cell contact with other cells. In serial cross-sections, the region of intercellular contact was large, extending from the alveolar bone to the cementum. Magenta and green regions in slice 128 are separate areas. Two areas in slice 137 overlapped, and they have been magnified. ab, alveolar bone; PDL, periodontal ligament; c, cementum. Scale bars: 10 μm for all panels.



Supplementary Fig. S2 Serial cross-sections imaged via focused ion beam/scanning electron microscopy tomography for the control group in apical fibre area of control group. White circles and ellipses represent intercellular interactions. Magenta and green regions represent regions of cell contact with other cells. In serial cross-sections, the region of intercellular contact was large, extending from the alveolar bone to the cementum. Magenta and green regions in slice 493 are separate areas. Two areas in slice 522 overlapped, and they have been magnified. ab, alveolar bone; PDL, periodontal ligament; c, cementum. Scale bars: 10 μm for all panels.



Supplementary Fig. S3 Serial cross-sections imaged via focused ion beam/scanning electron microscopy tomography for the experimental group in oblique fibre area of the experimental group. White circles and ellipses represent intercellular interactions. Magenta and green regions represent regions of cell contact with other cells. In serial cross-sections, the region of intercellular contact was large, extending from the alveolar bone to the cementum. Magenta and green regions in slices 237 and 257 are separate areas. Two areas in slice 277 overlapped, and they have been magnified. ab, alveolar bone; PDL, periodontal ligament; c, cementum. Scale bars: 10 μm for all panels.



Supplementary Fig. S4 Serial cross-sections imaged via focused ion beam/scanning electron microscopy tomography for the experimental group in apical fibre area of the experimental group. White circles and ellipses represent intercellular interactions. Magenta and green regions represent regions of cell contact with other cells. In serial cross-sections, the region of intercellular contact was large, extending from the alveolar bone to the cementum. Magenta and green regions in slices 651, 659, and 670 are separate areas. Two areas in slice 699 overlapped, and they have been magnified. ab, alveolar bone; PDL, periodontal ligament; c, cementum. Scale bars: 10 μm for all panels.