

### Abbreviations

ALP: Alkaline phosphatase; ALT: Alanine aminotransferase; APC: Allophycocyanin; AST: Aspartate aminotransferase; CCL<sub>4</sub>: Carbon tetrachloride; CFSE: Carboxyfluorescein diacetate succinimidyl ester; DiR: 1,1-Dioctadecyl-3,3,3,3-tetramethylindotricarbocyanine iodide; EGF: Epidermal growth factor; ELISA: Enzyme-linked immunosorbent assay; FGF2: Fibroblast growth factor 2; GAPDH: Glyceraldehyde 3-phosphate dehydrogenase; HGF: Hepatocyte growth factor; HLA: Human leukocyte antigen; IL: Interleukin; MHC: Major histocompatibility complex; MMP: Matrix metalloproteinase; MSC: Mesenchymal stem cell; NIR: Near infrared; P3: Passage 3; PBS: Phosphate-buffered saline; PE: Phycoerythrin; SD: Standard deviation; SHED: Stem cells from human exfoliated deciduous teeth; TGF- $\beta$ 1: Transforming growth factor  $\beta$ 1; Th17: Interleukin-17-producing helper T; TIMP: Tissue inhibitor of metalloproteinase; TNF $\alpha$ : Tumor necrosis factor alpha; Tregs: Regulatory T cells; UDP: Uridine 5'-diphosphate;  $\alpha$ SMA: Alpha smooth muscle actin.

### Competing interests

The authors declare that they have no competing interest.

### Authors' contributions

TY carried out conception and design of the study, generation, collection and assembly of data, interpretation of data, statistical analysis, and drafting of the manuscript. FSA carried out generation, collection and assembly of data, and interpretation of data. RY, HY, JKF, YY, KY, MH, TM, and RA participated in interpretation of data. KI, SO, SS, and KN participated in conception and design of the study, interpretation of data, and study supervision. TT participated in conception and design of the study, interpretation of data, drafting of the manuscript, critical revision of the manuscript for important intellectual content, and study supervision. All authors read and approved the final manuscript.

### Acknowledgements

The authors are very thankful to Mr Brian Quinn for his English assistance with writing. They also appreciate Ms Tomoko Yamazaki (Department of Pediatric Surgery, Kyushu University Graduate School of Medical Sciences) for her excellent assistance and Dr Soichiro Sonoda (Department of Molecular Cell Biology and Oral Anatomy, Kyushu University Graduate School of Dental Science) for his histological assistance and writing support during this study. This work was supported by grants from the Japan Society for the Promotion of Science, including Grant-in-Aid for Scientific Research (A) (grant number 25253094 to TT), Grant-in-Aid for Scientific Research (B) (grant number 25293405 to TY), and Grant-in-Aid for Challenging Exploratory Research Project (grant numbers 23659618 and 25670744 to TT and grant number 24659815 to TY), from the Ministry of Education, Culture, Sports, Science and Technology of Japan for Translational Research Grant of Center for Clinical and Translational Research Seeds B3 to TT, and from the Ministry of Health, Labor and Welfare for Research on Rare and Intractable Diseases (grant number H26-040) to TT. This research is also partially supported by the Translational Research Network Program from Japan Agency for Medical Research and Development, AMED. The authors appreciate Professor Fusanori Nishimura (Department of Periodontology, Kyushu University Graduate School of Dental Science) for his technical assistance through the program for the Promotion of Strategic International Research Network accelerating Brain Rotation (S2605) by the Japan Society for the Promotion of Science.

### Author details

<sup>1</sup>Department of Molecular Cell Biology and Oral Anatomy, Kyushu University Graduate School of Dental Science, 3-1-1 Maidashi, Higashi-ku, Fukuoka 812-8582, Japan. <sup>2</sup>Department of Pediatric Surgery, Kyushu University Graduate School of Medical Sciences, 3-1-1 Maidashi, Higashi-ku, Fukuoka 812-8582, Japan. <sup>3</sup>Department of Pediatric Dentistry, Kyushu University Graduate School of Dental Science, 3-1-1 Maidashi, Higashi-ku, Fukuoka 812-8582, Japan. <sup>4</sup>Department of Pediatrics, Kyushu University Graduate School of Medical Sciences, 3-1-1 Maidashi, Higashi-ku, Fukuoka 812-8582, Japan. <sup>5</sup>Department of Pediatrics, Faculty of Medicine, Oita University, 1-1 Idaigaoka, Hazama-cho, Yuhuin 879-5593, Japan. <sup>6</sup>Department of Pediatrics, Faculty of Medicine and Health Sciences, Yamaguchi University, 1-1-1 Minami Ogushi, Ube 755-8505, Japan. <sup>7</sup>Department Anatomy and Cell Biology, School of Dental Medicine, University of Pennsylvania, 240 South 40th Street, Philadelphia, PA 19104-6030, USA.

Received: 16 April 2015 Revised: 2 July 2015 Accepted: 12 August 2015

Published online: 10 September 2015

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