

# Stanford

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## Hirotsugu Maekawa

Postdoctoral Scholar, Orthopedic Surgery

### Bio

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#### INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

#### HONORS AND AWARDS

- CiRA RETREAT 2019 Outstanding poster award, Center for iPS Cell Research and Application (2019)
- 2020 ASBMR Young Investigator Award, American Society for Bone and Mineral Research (2020)

#### STANFORD ADVISORS

- Yunzhi Peter Yang, Postdoctoral Research Mentor
- Yunzhi Peter Yang, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Recapitulation of pro-inflammatory signature of monocytes with ACVR1A mutation using FOP patient-derived iPSCs.** *Orphanet journal of rare diseases*  
Maekawa, H., Jin, Y., Nishio, M., Kawai, S., Nagata, S., Kamakura, T., Yoshitomi, H., Niwa, A., Saito, M. K., Matsuda, S., Toguchida, J.  
2022; 17 (1): 364
- **Differentiation of Hypertrophic Chondrocytes from Human iPSCs for the In Vitro Modeling of Chondrodysplasias** *STEM CELL REPORTS*  
Pretemer, Y., Kawai, S., Nagata, S., Nishio, M., Watanabe, M., Tamaki, S., Alev, C., Yamanaka, Y., Xue, J., Wang, Z., Fukiage, K., Tsukanaka, M., Futami, et al  
2021; 16 (3): 610-625
- **Prophylactic treatment of rapamycin ameliorates naturally developing and episode -induced heterotopic ossification in mice expressing human mutant ACVR1** *ORPHANET JOURNAL OF RARE DISEASES*  
Maekawa, H., Kawai, S., Nishio, M., Nagata, S., Jin, Y., Yoshitomi, H., Matsuda, S., Toguchida, J.  
2020; 15 (1): 122
- **In vitro bone-like nodules generated from patient-derived iPSCs recapitulate pathological bone phenotypes** *NATURE BIOMEDICAL ENGINEERING*  
Kawai, S., Yoshitomi, H., Sunaga, J., Alev, C., Nagata, S., Nishio, M., Hada, M., Koyama, Y., Uemura, M., Sekiguchi, K., Maekawa, H., Ikeya, M., Tamaki, et al  
2019; 3 (7): 558-570