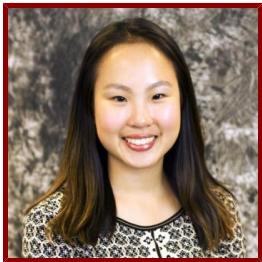


# Stanford

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## Elaine Lui

Postdoctoral Scholar, Orthopedic Surgery

### Bio

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#### STANFORD ADVISORS

- Yunzhi Peter Yang, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Preclinical models for studying corticosteroid-induced osteonecrosis of the femoral head**. *JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS*  
Tsubosaka, M., Maruyama, M., Lui, E., Kushioka, J., Toya, M., Gao, Q., Shen, H., Li, X., Chow, S., Zhang, N., Yang, Y., Goodman, S. B.  
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- **An osteoinductive and biodegradable intramedullary implant accelerates bone healing and mitigates complications of bone transport in male rats.** *Nature communications*  
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- **The efficiency of genetically modified mesenchymal stromal cells combined with a functionally graded scaffold for bone regeneration in corticosteroid-induced osteonecrosis of the femoral head in rabbits.** *Journal of biomedical materials research. Part A*  
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- **Hyprinting for musculoskeletal tissue engineering.** *iScience*  
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- **A bioactive synthetic membrane improves bone healing in a preclinical nonunion model.** *Injury*  
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- **Applying Deep Learning to Quantify Empty Lacunae in Histologic Sections of Osteonecrosis of the Femoral Head.** *Journal of orthopaedic research : official publication of the Orthopaedic Research Society*  
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- **The effect of genetically modified platelet-derived growth factor-BB over-expressing mesenchymal stromal cells during core decompression for steroid-associated osteonecrosis of the femoral head in rabbits.** *Stem cell research & therapy*  
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- **The efficacy of lapine preconditioned or genetically modified IL4 over-expressing bone marrow-derived mesenchymal stromal cells in corticosteroid-associated osteonecrosis of the femoral head in rabbits.** *Biomaterials*

Maruyama, M., Moeinzadeh, S., Guzman, R. A., Zhang, N., Storaci, H. W., Utsunomiya, T., Lui, E., Huang, E. E., Rhee, C., Gao, Q., Yao, Z., Takagi, M., Yang, et al  
2021; 275: 120972

• **Effect of porosity of a functionally-graded scaffold for the treatment of corticosteroid-associated osteonecrosis of the femoral head in rabbits.** *Journal of orthopaedic translation*

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2021; 28: 90–99

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Bai, Y., Moeinzadeh, S., Kim, S., Park, Y., Lui, E., Tan, H., Zhao, W., Zhou, X., Yang, Y. P.  
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• **Development of PLGA-PEG-COOH and Gelatin-Based Microparticles Dual Delivery System and E-Beam Sterilization Effects for Controlled Release of BMP-2 and IGF-1 PARTICLE & PARTICLE SYSTEMS CHARACTERIZATION**

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