

Jeong S. Hyun

Assistant Professor of Surgery (Pediatric Surgery)

Surgery - Pediatric Surgery

CLINICAL OFFICE (PRIMARY)

- **Pediatric General Surgery**

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Bio

CLINICAL FOCUS

- Pediatric Surgery

ACADEMIC APPOINTMENTS

- Assistant Professor - University Medical Line, Surgery - Pediatric Surgery

PROFESSIONAL EDUCATION

- Medical Education: University of Minnesota School of Medicine (2008) MN
- Board Certification: Surgical Critical Care, American Board of Surgery (2021)
- Residency: Stanford University Dept of General Surgery (2017) CA
- Board Certification: Pediatric Surgery, American Board of Surgery (2021)
- Fellowship: Children's Mercy Hospital Surgical Critical Care Fellowship (2020) MO
- Fellowship: Children's Mercy Hospital Pediatric Surgery Fellowship (2019) MO
- Board Certification: General Surgery, American Board of Surgery (2017)
- Internship: Saint Joseph Mercy Ann Arbor General Surgery Residency (2010) MI

Publications

PUBLICATIONS

- **Cerebral Fat Embolism in a Trauma Patient with Captured Imaging of Echogenic Emboli in the Inferior Vena Cava** *JOURNAL OF MEDICAL ULTRASOUND*
Wang, N. N., Panda, N., Hyun, J. S., Barounis, D., Weiser, T. G.
2016; 24 (4): 162–65
- **Salvage of a failed open gastrocutaneous fistula repair with an endoscopic over-the-scope clip** *JOURNAL OF PEDIATRIC SURGERY CASE REPORTS*
Jaramillo, J., Hyun, J., Abrajano, C., Koppolu, R., Chao, S., Hartman, G., Wall, J.
2016; 8: 40–41
- **Studies in Fat Grafting: Part I. Effects of Injection Technique on In Vitro Fat Viability and In Vivo Volume Retention** *PLASTIC AND RECONSTRUCTIVE SURGERY*

- Chung, M. T., Paik, K. J., Atashroo, D. A., Hyun, J. S., McArdle, A., Senarath-Yapa, K., Zielins, E. R., Tevlin, R., Duldulao, C., Hu, M. S., Walmsley, G. G., Parisi-Amon, A., Momeni, et al
2014; 134 (1): 29-38
- **Induced pluripotent stem cells in regenerative medicine and disease modeling.** *Current stem cell research & therapy*
Walmsley, G. G., Hyun, J., McArdle, A., Senarath-Yapa, K., Hu, M. S., Chung, M. T., Wong, V. W., Longaker, M. T., Wan, D. C.
2014; 9 (2): 73-81
 - **Isolation of human adipose-derived stromal cells using laser-assisted liposuction and their therapeutic potential in regenerative medicine.** *Stem cells translational medicine*
Chung, M. T., Zimmermann, A. S., Paik, K. J., Morrison, S. D., Hyun, J. S., Lo, D. D., McArdle, A., Montoro, D. T., Walmsley, G. G., Senarath-Yapa, K., Sorkin, M., Rennert, R., Chen, et al
2013; 2 (10): 808-817
 - **Molecular analysis and differentiation capacity of adipose-derived stem cells from lymphedema tissue.** *Plastic and reconstructive surgery*
Levi, B., Glotzbach, J. P., Sorkin, M., Hyun, J., Januszyk, M., Wan, D. C., Li, S., Nelson, E. R., Longaker, M. T., Gurtner, G. C.
2013; 132 (3): 580-589
 - **Enhancing in vivo survival of adipose-derived stromal cells through bcl-2 overexpression using a minicircle vector.** *Stem cells translational medicine*
Hyun, J., Grova, M., Nejadnik, H., Lo, D., Morrison, S., Montoro, D., Chung, M., Zimmermann, A., Walmsley, G. G., Lee, M., Daldrup-Link, H., Wan, D. C., Longaker, et al
2013; 2 (9): 690-702
 - **Enhancing stem cell survival in vivo for tissue repair** *BIOTECHNOLOGY ADVANCES*
Hyun, J. S., Tran, M. C., Wong, V. W., Chung, M. T., Lo, D. D., Montoro, D. T., Wan, D. C., Longaker, M. T.
2013; 31 (5): 736-743
 - **CD90 (Thy-1)-Positive Selection Enhances Osteogenic Capacity of Human Adipose-Derived Stromal Cells** *TISSUE ENGINEERING PART A*
Chung, M. T., Liu, C., Hyun, J. S., Lo, D. D., Montoro, D. T., Hasegawa, M., Li, S., Sorkin, M., Rennert, R., Keeney, M., Yang, F., Quarto, N., Longaker, et al
2013; 19 (7-8): 989-997
 - **Micro-Computed Tomography Evaluation of Human Fat Grafts in Nude Mice** *TISSUE ENGINEERING PART C-METHODS*
Chung, M. T., Hyun, J. S., Lo, D. D., Montoro, D. T., Hasegawa, M., Levi, B., Januszyk, M., Longaker, M. T., Wan, D. C.
2013; 19 (3): 227-232
 - **Adipose-derived Stromal Cells Overexpressing Vascular Endothelial Growth Factor Accelerate Mouse Excisional Wound Healing** *MOLECULAR THERAPY*
Nauta, A., Seidel, C., Deveza, L., Montoro, D., Grova, M., Ko, S. H., Hyun, J., Gurtner, G. C., Longaker, M. T., Yang, F.
2013; 21 (2): 445-455
 - **The Seed and the Soil Optimizing Stem Cells and Their Environment for Tissue Regeneration** *ANNALS OF PLASTIC SURGERY*
Hyun, J. S., Montoro, D. T., Lo, D. D., Flynn, R. A., Wong, V., Chung, M. T., Longaker, M. T., Wan, D. C.
2013; 70 (2): 235-239
 - **STEM CELL-BASED BIOENGINEERING OF CRANIOFACIAL BONE** *STEM CELLS IN CRANIOFACIAL DEVELOPMENT AND REGENERATION*
Lo, D. D., Montoro, D. T., Grova, M., Hyun, J. S., Chung, M. T., Wan, D. C., Longaker, M. T., Huang, G. T., Thesleff
2013: 379-94
 - **In vivo directed differentiation of pluripotent stem cells for skeletal regeneration** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Levi, B., Hyun, J. S., Montoro, D. T., Lo, D. D., Chan, C. K., Hu, S., Sun, N., Lee, M., Grova, M., Connolly, A. J., Wu, J. C., Gurtner, G. C., Weissman, et al
2012; 109 (50): 20379-20384
 - **Femtosecond plasma mediated laser ablation has advantages over mechanical osteotomy of cranial bone** *LASERS IN SURGERY AND MEDICINE*
Lo, D. D., Mackanos, M. A., Chung, M. T., Hyun, J. S., Montoro, D. T., Grova, M., Liu, C., Wang, J., Palanker, D., Connolly, A. J., Longaker, M. T., Contag, C. H., Wan, et al
2012; 44 (10): 805-814

- **Pierre Robin sequence and Treacher Collins hypoplastic mandible comparison using three-dimensional morphometric analysis.** *journal of craniofacial surgery*
Chung, M. T., Levi, B., Hyun, J. S., Lo, D. D., Montoro, D. T., Lisiecki, J., Bradley, J. P., Buchman, S. R., Longaker, M. T., Wan, D. C.
2012; 23 (7): 1959-1963
- **Models of cranial suture biology.** *journal of craniofacial surgery*
Grova, M., Lo, D. D., Montoro, D., Hyun, J. S., Chung, M. T., Wan, D. C., Longaker, M. T.
2012; 23 (7): 1954-1958
- **Models of Cranial Suture Biology** *JOURNAL OF CRANIOFACIAL SURGERY*
Grova, M., Lo, D. D., Montoro, D., Hyun, J. S., Chung, M. T., Wan, D. C., Longaker, M. T.
2012; 23: 1954-1958
- **Pierre Robin Sequence and Treacher Collins Hypoplastic Mandible Comparison Using Three-Dimensional Morphometric Analysis** *JOURNAL OF CRANIOFACIAL SURGERY*
Chung, M. T., Levi, B., Hyun, J. S., Lo, D. D., Montoro, D. T., Lisiecki, J., Bradley, J. P., Buchman, S. R., Longaker, M. T., Wan, D. C.
2012; 23: 1959-1963
- **Repair of a Critical-sized Calvarial Defect Model Using Adipose-derived Stromal Cells Harvested from Lipoaspirate** *JOVE-JOURNAL OF VISUALIZED EXPERIMENTS*
Lo, D. D., Hyun, J. S., Chung, M. T., Montoro, D. T., Zimmermann, A., Grova, M. M., Lee, M., Wan, D. C., Longaker, M. T.
2012
- **Rethinking the Blastema** *PLASTIC AND RECONSTRUCTIVE SURGERY*
Hyun, J. S., Chung, M. T., Wong, V. W., Montoro, D., Longaker, M. T., Wan, D. C.
2012; 129 (5): 1097-1103
- **Stem Cells: Update and Impact on Craniofacial Surgery** *JOURNAL OF CRANIOFACIAL SURGERY*
Levi, B., Glotzbach, J. P., Wong, V. W., Nelson, E. R., Hyun, J., Wan, D. C., Gurtner, G. C., Longaker, M. T.
2012; 23 (1): 319-322
- **Enhancement of Human Adipose-Derived Stromal Cell Angiogenesis through Knockdown of a BMP-2 Inhibitor** *PLASTIC AND RECONSTRUCTIVE SURGERY*
Levi, B., Nelson, E. R., Hyun, J. S., Glotzbach, J. P., Li, S., Nauta, A., Montoro, D. T., Lee, M., Commons, G. C., Hu, S., Wu, J. C., Gurtner, G. C., Longaker, et al
2012; 129 (1): 53-66
- **Cranial Suture Biology: From Pathways to Patient Care** *JOURNAL OF CRANIOFACIAL SURGERY*
Levi, B., Wan, D. C., Wong, V. W., Nelson, E., Hyun, J., Longaker, M. T.
2012; 23 (1): 13-19
- **Nonintegrating Knockdown and Customized Scaffold Design Enhances Human Adipose-Derived Stem Cells in Skeletal Repair** *STEM CELLS*
Levi, B., Hyun, J. S., Nelson, E. R., Li, S., Montoro, D. T., Wan, D. C., Jia, F. J., Glotzbach, J. C., James, A. W., Lee, M., Huang, M., Quarto, N., Gurtner, et al
2011; 29 (12): 2018-2029
- **CD105 Protein Depletion Enhances Human Adipose-derived Stromal Cell Osteogenesis through Reduction of Transforming Growth Factor beta 1 (TGF-beta 1) Signaling** *JOURNAL OF BIOLOGICAL CHEMISTRY*
Levi, B., Wan, D. C., Glotzbach, J. P., Hyun, J., Januszyk, M., Montoro, D., Sorkin, M., James, A. W., Nelson, E. R., Li, S., Quarto, N., Lee, M., Gurtner, et al
2011; 286 (45): 39497-39509
- **Dura Mater Stimulates Human Adipose-Derived Stromal Cells to Undergo Bone Formation in Mouse Calvarial Defects** *STEM CELLS*
Levi, B., Nelson, E. R., Li, S., James, A. W., Hyun, J. S., Montoro, D. T., Lee, M., Glotzbach, J. P., Commons, G. W., Longaker, M. T.
2011; 29 (8): 1241-1255