

## Mr Shamik Mascharak

- MD Student, expected graduation Spring 2021
- Ph.D. Student in Stem Cell Biology and Regenerative Medicine, admitted Autumn 2019
- MSTP Student

### Publications

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#### PUBLICATIONS

- **Automated Quantification of Vessel Structure: A Novel Method for Analysis of Angiogenesis in Wound Healing**  
Jardins-Park, H., Mascharak, S., Moore, A. L., Duoto, B. A., Longaker, M. T.  
ELSEVIER SCIENCE INC.2018: E196
- **Reduced Scar Thickness Achieved by Topical Doxycycline Is Mediated by Specific Skin Fibroblast Populations and Not Immune Cell Infiltrate**  
Moore, A. L., Murphy, M. P., Irizarry, D. M., Des Jardins-Park, H. E., Duoto, B. A., Mascharak, S., Foster, D. S., Jones, R., Wernig, G., Longaker, M. T.  
ELSEVIER SCIENCE INC.2018: S210–S211
- **Engrailed1-Positive Fibroblasts May Modulate Transcription of the TGF-beta Pathway in the Transition from Scarless Healing to Scarring Phenotype**  
Moore, A. L., Marshall, C. D., Des Jardins-Park, H. E., Duoto, B. A., Mascharak, S., Barnes, A., Ransom, R. C., Hu, M. S., Lorenz, H., Longaker, M. T.  
ELSEVIER SCIENCE INC.2018: E221–E222
- **Mouse Model with cJUN Over-Expression Eludes to Deep Dermal Fibroblast Expansion and Immune Cell Recruitment as the Biologic Mechanism of Hypertrophic Scarring**  
Moore, A. L., Duoto, B. A., Des Jardins-Park, H. E., Mascharak, S., Wernig, G., Longaker, M. T.  
ELSEVIER SCIENCE INC.2018: S208
- **Detecting oropharyngeal carcinoma using multispectral, narrow-band imaging and machine learning.** *The Laryngoscope*  
Mascharak, S., Baird, B. J., Holsinger, F. C.  
2018
- **Prrx1 Labels the Fibrogenic Fibroblast in the Ventral Dermis**  
Hu, M., Leavitt, T., Garcia, J., Ransom, R., Litzenburger, U., Walmsley, G., Marshall, C., Moore, A., Mascharak, S., Chan, C., Wan, D., Lorenz, P., Chang, et al  
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- **YAP-dependent mechanotransduction is required for proliferation and migration on native-like substrate topography** *BIOMATERIALS*  
Mascharak, S., Benitez, P. L., Proctor, A. C., Madl, C. M., Hu, K. H., Dewi, R. E., Butte, M. J., Heilshorn, S. C.  
2017; 115: 155-166
- **Use of protein-engineered fabrics to identify design rules for integrin ligand clustering in biomaterials** *INTEGRATIVE BIOLOGY*  
Benitez, P. L., Mascharak, S., Proctor, A. C., Heilshorn, S. C.  
2016; 8 (1): 50-61
- **Human Germline CRISPR-Cas Modification: Toward a Regulatory Framework.** *American journal of bioethics*  
Evitt, N. H., Mascharak, S., Altman, R. B.  
2015; 15 (12): 25-29