



## Jessica Hampton

- MD Student with Scholarly Concentration in Bioengineering, expected graduation Spring 2024
- Tutor, SoM Office of Student Services

### Bio

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#### HONORS AND AWARDS

- Medical Student Physician Scientist Award, American Society of Hematology (2021)

#### PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Head Teaching Assistant - SURG 203, Clinical Anatomy (2021 - present)
- Teaching Assistant - SURG 203, Clinical Anatomy (2020 - 2021)

### Research & Scholarship

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#### RESEARCH PROJECTS

- Genetically Engineering Red Blood Cells for Therapeutic Delivery of Factor IX to Reverse the Hemophilia B Phenotype

### Publications

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#### PUBLICATIONS

- **Host and Microbial Characteristics Associated with Recurrent Prosthetic Joint Infections.** *Journal of orthopaedic research : official publication of the Orthopaedic Research Society*  
Hampton, J. P., Zhou, J. Y., Kameni, F. N., Espiritu, J. R., Manasherob, R., Cheung, E., Miller, M. D., Huddleston, J. I., Maloney, W. J., Goodman, S. B., Amanatullah, D. F.  
2023
- **Dual  $\alpha$ -Globin and Truncated EPO Receptor Knockin Restores Hemoglobin Production in  $\alpha$ -Thalassemia-Derived Hematopoietic Stem and Progenitor Cells**  
Chu, S. N., Soupene, E., Wienert, B., Yin, H., Sharma, D., Jia, K., Homma, S., Hampton, J. P., Conklin, B., MacKenzie, T. C., Porteus, M., Cromer, K.  
AMER SOC HEMATOLOGY.2023
- **Using Human Genetics to Develop Strategies to Increase Erythropoietic Output from Genome-Edited Hematopoietic Stem and Progenitor Cells**  
Luna, S. E., Camarena, J., Hampton, J. P., Majeti, K. R., Charlesworth, C. T., Soupene, E., Sheehan, V. A., Cromer, K., Porteus, M.  
AMER SOC HEMATOLOGY.2023
- **Demographic and socioeconomic disparities in receipt of ophthalmology consultation for facial trauma.** *BMJ open ophthalmology*  
Gervasio, K. A., Camarena, J., Hampton, J., Chopra, N., Kalosza, B., Shumate, L., Wu, A. Y.  
2023; 8 (1)
- **Increasing Erythropoietic Output from Genome-Edited Hematopoietic Stem and Progenitor Cells Using a Truncated EPO Receptor**  
Luna, S. E., Camarena, J., Hampton, J. P., Majeti, K. R., Charlesworth, C. T., Soupene, E., Sheehan, V., Cromer, K., Porteus, M. H.  
CELL PRESS.2023: 538-539
- **STING inhibits the reactivation of dormant metastasis in lung adenocarcinoma** *NATURE*

- Hu, J., Sanchez-Rivera, F. J., Wang, Z., Johnson, G. N., Ho, Y., Ganesh, K., Umeda, S., Gan, S., Mujal, A. M., Delconte, R. B., Hampton, J. P., Zhao, H., Kottapalli, et al  
2023: 806-813
- **Comparative analysis of CRISPR off-target discovery tools following ex vivo editing of CD34+ hematopoietic stem and progenitor cells.** *Molecular therapy : the journal of the American Society of Gene Therapy*  
Cromer, M. K., Majeti, K. R., Rettig, G. R., Murugan, K., Kurgan, G. L., Bode, N. M., Hampton, J. P., Vakulskas, C. A., Behlke, M. A., Porteus, M. H.  
2023
  - **Ultra-deep sequencing validates safety of CRISPR/Cas9 genome editing in human hematopoietic stem and progenitor cells.** *Nature communications*  
Cromer, M. K., Barsan, V. V., Jaeger, E., Wang, M., Hampton, J. P., Chen, F., Kennedy, D., Xiao, J., Khrebtukova, I., Granat, A., Truong, T., Porteus, M. H.  
2022; 13 (1): 4724
  - **A Universal Correction Strategy for alpha-Thalassemia Using CRISPR/AAV-Mediated Genome Editing**  
Cromer, M., Wienert, B., Hampton, J. P., Majeti, K. R., Conklin, B. R., Porteus, M. H., MacKenzie, T. C.  
CELL PRESS.2022: 328
  - **Compliance to an enhanced recovery pathway among patients with a high frailty index after major gastrointestinal surgery results in improved 30-day outcomes.** *Surgery*  
Hampton, J. P., Owodunni, O. P., Bettick, D. n., Chen, S. Y., Sateri, S. n., Magnuson, T. n., Gearhart, S. L.  
2019; 166 (1): 75–81
  - **High Compliance to an Enhanced Recovery Pathway for Patients #65 Years Undergoing Major Small and Large Intestinal Surgery Is Associated With Improved Postoperative Outcomes.** *Annals of surgery*  
Owodunni, O. P., Hampton, J., Bettick, D., Sateri, S., Magnuson, T., Wick, E., Psoter, K. J., Gearhart, S. L.  
2018
  - **A Nigro-Vagal Pathway Controls Gastric Motility and Is Affected in a Rat Model of Parkinsonism** *GASTROENTEROLOGY*  
Anselmi, L., Toti, L., Bove, C., Hampton, J., Travagli, R.  
2017; 153 (6): 1581–93