Stanford

Amanda Dudek

Instructor, Pediatrics - Stem Cell Transplantation

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ACADEMIC APPOINTMENTS

- Instructor, Pediatrics - Stem Cell Transplantation
- Member, Maternal & Child Health Research Institute (MCHRI)

Publications

PUBLICATIONS

- **High-efficiency transgene integration by homology-directed repair in human primary cells using DNA-PKcs inhibition.** *Nature biotechnology*

  Selvaraj, S., Feist, W. N., Viel, S., Vaidyanathan, S., Dudek, A. M., Gastou, M., Rockwood, S. J., Ekman, F. K., Oseghale, A. R., Xu, L., Pavel-Dinu, M., Luna, S. E., Cromer, et al

  2023

- **Establishing Multilayered Genetic Resistance to HIV-1 by Engineering Hematopoietic Stem and Progenitor Cells for B Cell Specific Secretion of Therapeutic Antibodies**

  Feist, W., Luna, S., Ben-Efraim, K., Interrante, M., Amorin, N. A., Johnston, N., Dudek, A., Porteus, M. H.

  CELL PRESS.2023: 115-116

- **A Simultaneous Knock-Out Knock-In Gene Editing Strategy in HSPCs Potently Inhibits R5-and X4-Tropic HIV Replication**

  Dudek, A. M., Feist, W. N., Porteus, M. H.

  CELL PRESS.2022: 230

- **GMEB2 is a Conserved Cellular AAV Restriction Factor That Inhibits Transduction of Human Stem Cells**

  Dudek, A. M., Johnston, N. M., Vaidyanathan, S., Selvaraj, S., Porteus, M. H.

  CELL PRESS.2021: 48-49

- **Targeted replacement of full-length CFTR in human airway stem cells by CRISPR/Cas9 for pan-mutation correction in the endogenous locus.** *Molecular therapy : the journal of the American Society of Gene Therapy*

  Vaidyanathan, S. n., Baik, R. n., Chen, L. n., Bravo, D. T., Suarez, C. J., Abazari, S. M., Salahudeen, A. A., Dudek, A. M., Teran, C. A., Davis, T. H., Lee, C. M., Bao, G. n., Randell, et al

  2021

- **Answered and Unanswered Questions in Early-Stage Viral Vector Transduction Biology and Innate Primary Cell Toxicity for Ex-Vivo Gene Editing.** *Frontiers in immunology*

  Dudek, A. M., Porteus, M. H.

  2021; 12: 660302

- **Reply to "Efficient Nuclease-free HR by Clade F AAV Requires High MOIs with High Quality Vectors".** *Molecular therapy : the journal of the American Society of Gene Therapy*

  Dudek, A. M., Porteus, M. H.

  2019

- **Genome-Wide CRISPR/Cas9 Screening Identifies GPR108 as a Highly Conserved AAV Entry Factor**
  Dudek, A. M., Zinn, E., Pillay, S., Zengel, J., Carette, J. E., Vandenberghe, L. H.
  CELL PRESS.2019: 313–14

- **GPR108 Is a Highly Conserved AAV Entry Factor.** *Molecular therapy : the journal of the American Society of Gene Therapy*
  Dudek, A. M., Zabaleta, N. n., Zinn, E. n., Pillay, S. n., Zengel, J. n., Porter, C. n., Franceschini, J. S., Estelien, R. n., Carette, J. E., Zhou, G. L., Vandenberghe, L. H.
  2019

- **AAV6 Is Superior to Clade F AAVs in Stimulating Homologous Recombination-Based Genome Editing in Human HSPCs.** *Molecular therapy : the journal of the American Society of Gene Therapy*
  Dudek, A. M., Porteus, M. H.
  2019

- **Identification and Characterization of an Alternate, AAVR Independent, AAV Entry Mechanism Using a Genome-Wide CRISPR/Cas9 Knock-Out Screen**
  Dudek, A. M., Zinn, E. M., Pillay, S., Puschnik, A. S., Nagamine, C. M., Cheng, F., Qiu, J., Carette, J. E., Vandenberghe, L. H.
  CELL PRESS.2018: 323

- **Delayed Onset and Altered Biodistribution of a Non-Canonical AAV Entry Pathway**
  Dudek, A. M., Pillay, S., Puschnik, A. S., Nagamine, C. M., Carette, J. E., Vandenberghe, L. H.
  CELL PRESS.2018: 188

- **An alternate route for adeno-associated virus entry independent of AAVR.** *Journal of virology*
  Dudek, A. M., Pillay, S. n., Puschnik, A. S., Nagamine, C. M., Cheng, F. n., Qiu, J. n., Carette, J. E., Vandenberghe, L. H.
  2018