Stanford

Mara Pavel-Dinu

Postdoctoral Research Fellow, Stem Cell Transplantation

Bio

INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

HONORS AND AWARDS

- Meritorious Travel Grant Award, ASGCT 23rd Annual Meeting, Boston (2020)
- Meritorious Travel Grant Award, FOCIS Annual Meeting, San Francisco (2018)
- Meritorious Travel Grant Award, ASGCT 20th Annual Meeting, Washington DC (2017)
- NSF Graduate Student Research Fellowship, Stanford University (2010-2013)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Associate Member, American Society of Gene and Cell Therapy (ASGCT) (2017 - present)
- Associate Member, American Society of Hematology (ASH) (2020 - present)
- Member, Keystone Symposia (2019 - present)
- Member, Federation of Clinical Immunology Societies (FOCIS) (2018 - 2018)
- Member, Primary Immune Deficiency Treatment Consortium (PIDTC) (2018 - 2018)
- Member, Clinical Immunology Society (2018 - 2018)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Stanford University , BIO-PHD (2015)
- Bachelor of Science, University of California Los Angeles , Microbio,Immuno,Molec Genetics (2004)

STANFORD ADVISORS

- Matthew Porteus, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Lentivector versus CRISPR/Cas9/AAV6 Gene Editing in X-Linked Severe Combined Immunodeficiency CD34(+) Hematopoietic Cells**
  Liu, T., Brault, J., Pavel-Dinu, M., Liu, S., Meis, R. J., Koontz, S., Corsino, C., Bosticardo, M., Kleinstiver, B., Notarangelo, L. D., Wu, X., Dahl, G. A., Porteus, et al
  CELL PRESS.2020: 355–56

- **A Genomic Editing-Based Therapeutic Approach for RAG2 Deficiency**
  Pavel-Dinu, M., Gardner, C., La Guardia, T. A., Vakulskas, C. A., Lee, C., Bao, G., Sheikali, A., Menezes, T., Notarangelo, L. D., Porteus, M. H.

CELL PRESS.2020: 55–56

- **Proteins Complex of the Fanconi Anemia Pathway as Determinant of AAV-Mediated Genomic Targeted Integration**
  Puzzo, F., de Alencastro, G., Pavel-Dinu, M., Zhang, F., Pillay, S., Majzoub, K., Tiffany, M., Jang, H., Sheikali, A., Cromer, K. M., Meetei, R., Carette, J. E., Porteus, et al
  CELL PRESS.2020: 459

- **Highly Efficient and Marker-free Genome Editing of Human Pluripotent Stem Cells by CRISPR-Cas9 RNP and AAV6 Donor-Mediated Homologous Recombination.** *Cell stem cell*
  Martin, R. M., Ikeda, K., Cromer, M. K., Uchida, N., Nishimura, T., Romano, R., Tong, A. J., Lemgart, V. T., Camarena, J., Pavel-Dinu, M., Sindhu, C., Wiebking, V., Vaidyanathan, et al
  2019; 24 (5): 821

- **Highly Efficient and Marker-free Genome Editing of Human Pluripotent Stem Cells by CRISPR-Cas9 RNP and AAV6 Donor-Mediated Homologous Recombination** *CELL STEM CELL*
  Martin, R. M., Ikeda, K., Cromer, M., Uchida, N., Nishimura, T., Romano, R., Tong, A. J., Lemgart, V. T., Camarena, J., Pavel-Dinu, M., Sindhu, C., Wiebking, V., Vaidyanathan, et al
  2019; 24 (5): 821-+

- **Gene correction for SCID-X1 in long-term hematopoietic stem cells (vol 10, 1634, 2019)** *NATURE COMMUNICATIONS*
  Pavel-Dinu, M., Wiebking, V., Dejene, B. T., Srifa, W., Mantri, S., Nicolas, C. E., Lee, C., Bao, G., Kildebeck, E. J., Punjya, N., Sindhu, C., Inlay, M. A., Saxena, et al
  2019; 10

- **Gene correction for SCID-X1 in long-term hematopoietic stem cells** *NATURE COMMUNICATIONS*
  Pavel-Dinu, M., Wiebking, V., Dejene, B. T., Srifa, W., Mantri, S., Nicolas, C. E., Lee, C., Bao, G., Kildebeck, E. J., Punjya, N., Sindhu, C., Inlay, M. A., Saxena, et al
  2019; 10

- **Gene correction for SCID-X1 in long-term hematopoietic stem cells.** *Nature communications*
  Pavel-Dinu, M., Wiebking, V., Dejene, B. T., Srifa, W., Mantri, S., Nicolas, C. E., Lee, C., Bao, G., Kildebeck, E. J., Punjya, N., Sindhu, C., Inlay, M. A., Saxena, et al
  2019; 10 (1): 1634

- **Identification of preexisting adaptive immunity to Cas9 proteins in humans.** *Nature medicine*
  Charlesworth, C. T., Deshpande, P. S., Dever, D. P., Camarena, J., Lemgart, V. T., Cromer, M. K., Vakulskas, C. A., Collingwood, M. A., Zhang, L., Bode, N. M., Behlke, M. A., Dejene, B., Cieniewicz, et al
  2019

- **Author Correction: Gene correction for SCID-X1 in long-term hematopoietic stem cells.** *Nature communications*
  Pavel-Dinu, M., Wiebking, V., Dejene, B. T., Srifa, W., Mantri, S., Nicolas, C. E., Lee, C., Bao, G., Kildebeck, E. J., Punjya, N., Sindhu, C., Inlay, M. A., Saxena, et al
  2019; 10 (1): 5624

- **High-efficiency CRISPR induction of t(9;11) chromosomal translocations and acute leukemias in human blood stem cells.** *Blood advances*
  Jeong, J., Jager, A., Domizi, P., Pavel-Dinu, M., Gojenola, L., Iwasaki, M., Wei, M. C., Pan, F., Zehnder, J. L., Porteus, M. H., Davis, K. L., Cleary, M. L.
  2019; 3 (19): 2825–35

- **Author Correction: Gene correction for SCID-X1 in long-term hematopoietic stem cells.** *Nature communications*
  Pavel-Dinu, M., Wiebking, V., Dejene, B. T., Srifa, W., Mantri, S., Nicolas, C. E., Lee, C., Bao, G., Kildebeck, E. J., Punjya, N., Sindhu, C., Inlay, M. A., Saxena, et al
  2019; 10 (1): 2021

- **CRISPR-Mediated Targeted Insertion of Cybb cDNAs into the Cybb Locus for Correction of X-CGD Patient CD34(+) Cells**
  Sweeney, C. L., Choi, U., Pavel-Dinu, M., Koontz, S., Li, L., Theobald, N., Lee, J., Wu, X., Porteus, M. H., Malech, H. L., De Ravin, S.
  CELL PRESS.2018: 233

- **Genome Editing for IL-10 Deficiency in Purified Hematopoietic Stem Cells**
  Romano, R., Pavel-Dinu, M., Bacchetta, R., Porteus, M. H., Roncarolo, M.
  CELL PRESS.2018: 237–38

- **Genome Editing of Long-Term Human Hematopoietic Stem Cells for X-Linked Severe Combined Immunodeficiency**
  Pavel-Dinu, M., Wiebking, V., Dejene, B. T., Srifa, W., Mantri, S., Nicolas, C., Lee, C. M., Bao, G., Kildebeck, E., Punjya, N., Sindhu, C., Inlay, M. A., Saxena, et al
  SPRINGER/PLENUM PUBLISHERS.2018: 365–66
- **A high-fidelity Cas9 mutant delivered as a ribonucleoprotein complex enables efficient gene editing in human hematopoietic stem and progenitor cells.** *Nature medicine*
  Vakulskas, C. A., Dever, D. P., Rettig, G. R., Turk, R., Jacobi, A. M., Collingwood, M. A., Bode, N. M., McNeill, M. S., Yan, S., Camarena, J., Lee, C. M., Park, S. H., Wiebking, et al
  2018; 24 (8): 1216–24
- **CRISPR/Cas9 ß-globin gene targeting in human haematopoietic stem cells.** *Nature*
  Dever, D. P., Bak, R. O., Reinisch, A., Camarena, J., Washington, G., Nicolas, C. E., Pavel-Dinu, M., Saxena, N., Wilkens, A. B., Mantri, S., Uchida, N., Hendel, A., Narla, et al
  2016
- **A crisper look at genome editing: RNA-guided genome modification.** *Molecular therapy : the journal of the American Society of Gene Therapy*
  Damian, M., Porteus, M. H.
  2013; 21 (4): 720-722
- **A Crisper Look at Genome Editing: RNA-guided Genome Modification** *MOLECULAR THERAPY*
  Damian, M., Porteus, M. H.
  2013; 21 (4): 719-721
- **Reprogramming towards pluripotency requires AID-dependent DNA demethylation** *NATURE*
  Bhutani, N., Brady, J. J., Damian, M., Sacco, A., Corbel, S. Y., Blau, H. M.
  2010; 463 (7284): 1042-U57
- **SIRT6 Links Histone H3 Lysine 9 Deacetylation to NF-kappa B-Dependent Gene Expression and Organismal Life Span** *CELL*
  Kawahara, T. L., Michishita, E., Adler, A. S., Damian, M., Berber, E., Lin, M., McCord, R. A., Ongaigui, K. C., Boxer, L. D., Chang, H. Y., Chua, K. F.
  2009; 136 (1): 62-74
- **SIRT6 is a histone H3 lysine 9 deacetylase that modulates telomeric chromatin** *NATURE*
  Michishita, E., McCord, R. A., Berber, E., Kioi, M., Padilla-Nash, H., Damian, M., Cheung, P., Kusumoto, R., Kawahara, T. L., Barrett, J. C., Chang, H. Y., Bohr, V. A., Ried, et al
  2008; 452 (7186): 492-U16