


Stanford



Marcelo Fernandez Vina

Professor of Pathology (Research) at the Stanford University Medical Center

 Curriculum Vitae available Online

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Bio

BIO

Marcelo Fernández-Viña, Ph.D., D (ABHI) is a Professor for the Department of Pathology at Stanford University Medical School and serves as Director of the Histocompatibility, Immunogenetics and Disease Profiling Laboratory at this institution. He has been working in the fields of Histocompatibility and Immunogenetics since 1982. He earned a degree in Biochemistry from the School of Basic Sciences in Rosario, Argentina, and his Ph.D. in Internal Medicine from the University of Buenos Aires Medical School in Argentina. Previously he held a position as a Professor in the Department of Laboratory Medicine at the University of Texas M.D. Anderson Cancer Center in Houston. He has more than 180 peer reviewed publications, many of them focusing on HLA variation in multiple world populations, identifying susceptibility and resistance factors for diseases and in the impact of HLA mismatches in allogeneic transplantation; and 59 book chapters. He served as expert Consultant for Donor Searches for NMDP and as President Elect, President and Past President of the American Society for Histocompatibility and Immunogenetics. He served as a member of the Board of Directors and the Executive Committee for the United Network for Organ Sharing. He served as Co-Chair of the Immunobiology Committee of the CIBMTR; He also served as a member of the HHS Advisory Council on Blood Stem Cell Transplantation (ACBSCT). He serves as HLA Expert Consultant for the NMDP for the HRSA contract and is a member of the Histocompatibility Advisory Group for NMDP. He is Councilor of the International Histocompatibility Workshop and a member of the WHO Nomenclature Committee for Factors of the HLA System and was Chairman of the (17th) International HLA & Immunogenetics Workshop, and current President of the International HLA & Immunogenetics Workshop. He is Section Editor of Human Immunology and an Advisory Board Member of the International Journal of Immunogenetics and Bone Marrow Transplantation.

ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Pathology

Publications

PUBLICATIONS

- **ASSOCIATION OF EXTENDED HLA CLASS I AND II HAPLOTYPES WITH EARLY-ONSET AND LATE-ONSET MYASTHENIA GRAVIS IN ITALIAN, NORWEGIAN, AND SWEDISH POPULATIONS**

Creary, L. E., Gangavarapu, S., Caillier, S., Cavalcante, P., Lie, B. A., Bengtsson, M., Harbo, H., Brauner, S., Hollenbach, J., Oksenberg, J. R., Maniaol, A., Hammarstrom, L., Mantegazza, et al

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- **A NEW STRATEGY FOR SYSTEMATICALLY CLASSIFYING HLA ALLELES INTO SEROLOGICAL SPECIFICITIES**
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- **Mixed chimerism and acceptance of kidney transplants after immunosuppressive drug withdrawal.** *Science translational medicine*
Busque, S., Scandling, J. D., Lowsky, R., Shizuru, J., Jensen, K., Waters, J., Wu, H. H., Sheehan, K., Shori, A., Choi, O., Pham, T., Fernandez Vina, M. A., Hoppe, et al
2020; 12 (528)
- **Tools for building, analyzing and evaluating HLA haplotypes from families**
Osoegawa, K., Mack, S. J., Prestegaard, M., Fernandez-Vina, M. A.
ELSEVIER SCIENCE INC.2019: 633–43
- **Selection of Unrelated Donors and Cord Blood Units for Hematopoietic Cell Transplantation: Guidelines from NMDP/CIBMTR.** *Blood*
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2019
- **HLA alleles and haplotypes observed in 263 US families.** *Human immunology*
Osoegawa, K., Mallempati, K. C., Gangavarapu, S., Oki, A., Gendzekhadze, K., Marino, S. R., Brown, N. K., Bettinotti, M. P., Weimer, E. T., Montero-Martin, G., Creary, L. E., Vayntrub, T. A., Chang, et al
2019
- **The European Society for Blood and Marrow Transplantation (EBMT) Consensus Guidelines for the Detection and Treatment of Donor-specific Anti-HLA Antibodies (DSA) in Haploidentical Hematopoietic Cell Transplantation (vol 53, pg 521, 2018)** *BONE MARROW TRANSPLANTATION*
Ciurea, S. O., Cao, K., Fernandez-Vina, M., Kongtim, P., Al Malki, M., Fuchs, E., Luznik, L., Huang, X., Ciceri, F., Locatelli, F., Aversa, F., Castagna, L., Bacigalupo, et al
2019; 54 (5): 784
- **THE SHARED EPITOPE OF HLA-DRB1 MEDIATES RISK AND INTERACTS WITH SMOKING HISTORY IN PARKINSON'S DISEASE**
Hollenbach, J. A., Norman, P. J., Creary, L. E., Damotte, V., Martin, G., Caillier, S., Anderson, K., Misra, M. K., Nemat-Gorgani, N., Osoegawa, K., Marino, W. M., Dandekar, R., Fernandez-Vina, et al
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- **DEEP ANALYSIS OF KIR2DL1 AND KIR3DL1S1 BY NEXT GENERATION SEQUENCING IN 3,695 INDIVIDUALS IDENTIFIES NOVEL VARIANTS WITH POSSIBLE FUNCTIONAL RELEVANCE**
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- **ALLELIC POLYMORPHISM IN KIR3DL1S1 MEDIATES RISK IN MULTIPLE SCLEROSIS AND IS ASSOCIATED WITH INCREASED RELAPSE RATE AND BRAIN LESION BURDEN**
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- **Deconstruction of HLA-DRB1*04:01:01 and HLA-DRB1*15:01:01 class II haplotypes using next-generation sequencing in European-Americans with multiple sclerosis** *MULTIPLE SCLEROSIS JOURNAL*
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- **SEGREGATION OF EXTENDED HLA HAPLOTYPES IN FAMILIES FROM JAMAICA: A STUDY UNDER THE 17TH INTERNATIONAL HLA AND IMMUNOGENETICS WORKSHOP**
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2019
- **Next-generation HLA typing of 382 International Histocompatibility Working Group reference B-Lymphoblastoid cell lines: report from the 17th International HLA and Immunogenetics Workshop.** *Human immunology*
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- Ciurea, S. O., Cao, K., Fernandez-Vina, M., Kongtim, P., Al Malki, M., Fuchs, E., Luznik, L., Huang, X., Ciceri, F., Locatelli, F., Aversa, F., Castagna, L., Bacigalupo, et al
2018; 53 (5): 521–34
- **Diversity in exon 5 of HLA-C*04:01:01G is significant in anthropological studies (vol 77, pg 426, 2016) HUMAN IMMUNOLOGY**
Dunn, P. J., Lamb, G., Selwyn, C., Compton, J., Yang, E., Maiers, M., Fernandez-Vina, M.
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 - **Are changes in HLA Ags responsible for leukemia relapse after HLA-matched allogeneic hematopoietic SCT? Bone marrow transplantation**
Hamdi, A., Cao, K., Poon, L. M., Aung, F., Kornblau, S., Fernandez Vina, M. A., Champlin, R. E., Ciurea, S. O.
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 - **HLA-DPB1 and HLA Class I Confer Risk of and Protection from Narcolepsy. American journal of human genetics**
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Howard, C. A., Fernandez-Vina, M. A., Appelbaum, F. R., Confer, D. L., Devine, S. M., Horowitz, M. M., Mendizabal, A., Laport, G. G., Pasquini, M. C., Spellman, S. R.
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 - **Complement-Binding Donor-Specific Anti-HLA Antibodies and Risk of Primary Graft Failure in Hematopoietic Stem Cell Transplantation. Biology of blood and marrow transplantation : journal of the American Society for Blood and Marrow Transplantation**
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 - **HLA-DQ Allele Competition in Narcolepsy: A Comment on Tafti et al. DQB1 locus alone explains most of the risk and protection in narcolepsy with cataplexy in Europe SLEEP**
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2014; 37 (10): 1601-1608
 - **Validation of statistical imputation of allele-level multilocus phased genotypes from ambiguous HLA assignments TISSUE ANTIGENS**
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 - **Cytotoxic T-lymphocyte antigen-4 single nucleotide polymorphisms are not associated with outcomes after unrelated donor transplantation: a center for international blood and marrow transplant research analysis. Biology of blood and marrow transplantation**
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- **Impact of allele-level HLA matching on outcomes after myeloablative single unit umbilical cord blood transplantation for hematologic malignancy** *BLOOD*
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2014; 10 (9): 1011-1018
- **Amino acid substitution at peptide-binding pockets of HLA class I molecules increases risk of severe acute GVHD and mortality** *BLOOD*
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