



Marcelo Fernandez Vina

Professor of Pathology

 Curriculum Vitae available Online

CONTACT INFORMATION

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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 Past President of the International HLA & Immunogenetics Workshop.

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Pathology

Publications

PUBLICATIONS

- **The Impact of Patterns in Linkage Disequilibrium and Sequencing Quality on the Imprint of Balancing Selection.** *Genome biology and evolution*
Hayeck, T. J., Li, Y., Mosbrugger, T. L., Bradfield, J. P., Gleason, A. G., Damianos, G., Shaw, G. T., Duke, J. L., Conlin, L. K., Turner, T. N., Fernandez-Vina, M. A., Sarmady, M., Monos, et al
2024
- **High-resolution DNA methylation screening of the major histocompatibility complex in multiple sclerosis.** *Frontiers in neurology*
Ma, Q., Augusto, D. G., Montero-Martin, G., Caillier, S. J., Osoegawa, K., Cree, B. A., Hauser, S. L., Didonna, A., Hollenbach, J. A., Norman, P. J., Fernandez-Vina, M., Oksenberg, J. R.

2023; 14: 1326738

- **Exceptional diversity of KIR and HLA class I in Egypt.** *HLA*
Montero-Martin, G., Kichula, K. M., Misra, M. K., de Brito Vargas, L., Marin, W. M., Hollenbach, J. A., Fernandez-Vina, M. A., Elfishawi, S., Norman, P. J.
2023
- **HLA allele and haplotype frequencies of registered stem cell donors in Chile.** *Frontiers in immunology*
Solloch, U. V., Giani, A. S., Pattillo Garnham, M. I., Sauter, J., Bernas, S. N., Lange, V., Barriga, F., Fernández-Viña, M. A., Schmidt, A. H.
2023; 14: 1175135
- **HLA-Bw4 is Associated with Pediatric Acute-Onset Neuropsychiatric Syndrome (PANS)**
Kizer, K., Augusto, D., Montero-Martin, G., Schlenk, N., Horgan, J., Wade, K., Oksenberg, J., Fernandez-Vina, M., Frankovich, J., Hollenbach, J. A.
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- **HLA variants associated with sarcoidosis and their tag single nucleotide polymorphisms in Czechs**
Sikorova, K., Doubkova, M., Strnad, A., Kocourkova, L., Petrakova, J., Osoegawa, K., Fernandez-Vina, M. A., Petrek, M.
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- **Spherotech-EDTA combined serum treatment reduces background more effectively as compared to One Lambda Adsorb Out™ and LIFECODES Serum Cleaner in Lumindex-based solid-phase immunoassays for HLA antibody detection.** *HLA*
Misra, M. K., Weidner, J. G., Upchurch, R. L., Mankey, A. M., Fernandez-Viña, M. A., Marino, S. G.
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- **Analysis of Cross-sectional and Longitudinal HLA and Anti-viral Responses After COVID Infection in Renal Allograft Recipients: Differences and Correlates.** *Transplantation*
Girnita, A. L., Wang, L., Colovai, A. I., Ahearn, P., Azzi, Y., Menon, M. C., Fernandez-Vina, M., Gebel, H. M., Steve Woodle, E., Cravedi, P., Maltzman, J. S., Akalin, E.
2022
- **Deconvoluting complex correlates of COVID-19 severity with a multi-omic pandemic tracking strategy.** *Nature communications*
Parikh, V. N., Ioannidis, A. G., Jimenez-Morales, D., Gorzynski, J. E., De Jong, H. N., Liu, X., Roque, J., Cepeda-Espinoza, V. P., Osoegawa, K., Hughes, C., Sutton, S. C., Youlton, N., Joshi, et al
2022; 13 (1): 5107
- **Current HLA testing recommendations to support HCT.** *Human immunology*
Yu, N., Askar, M., Wadsworth, K., Gragert, L., Fernandez-Vina, M. A.
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- **Serology 2022: An update of the serologic classification based on structural features of all alleles (present and future) at 11 HLA loci alleles**
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- **Complement-Binding Donor-Specific Anti-HLA Antibodies: Biomarker for Immunologic Risk Stratification in Pediatric Kidney Transplantation Recipients.** *Transplant international : official journal of the European Society for Organ Transplantation*
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- **Severe delayed hypersensitivity reactions to IL-1 and IL-6 inhibitors link to common HLA-DRB1*15 alleles.** *Annals of the rheumatic diseases*
Saper, V. E., Ombrello, M. J., Tremoulet, A. H., Montero-Martin, G., Prahalad, S., Canna, S., Shimizu, C., Deutsch, G., Tan, S. Y., Remmers, E. F., Monos, D., Hahn, T., Phadke, et al
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- **High-resolution HLA allele and haplotype frequencies in several unrelated populations determined by next generation sequencing: 17th International HLA and Immunogenetics Workshop joint report.** *Human immunology*
Creary, L. E., Sacchi, N., Mazzocco, M., Morris, G. P., Montero-Martin, G., Chong, W., Brown, C. J., Dinou, A., Stavropoulos-Giokas, C., Gorodezky, C., Narayan, S., Periathiruvadi, S., Thomas, et al
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- **Next-Generation Sequencing Identifies Extended HLA Class I and II Haplotypes Associated With Early-Onset and Late-Onset Myasthenia Gravis in Italian, Norwegian, and Swedish Populations.** *Frontiers in immunology*
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- **HLA-haplotype loss after TCRalpha/CD19-depleted haploidentical HSCT.** *Bone marrow transplantation*
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- **ASSOCIATION OF EXTENDED HLA CLASS I AND II HAPLOTYPES WITH EARLY-ONSET AND LATE-ONSET MYASTHENIA GRAVIS IN ITALIAN, NORWEGIAN, AND SWEDISH POPULATIONS**
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- **A NEW STRATEGY FOR SYSTEMATICALLY CLASSIFYING HLA ALLELES INTO SEROLOGICAL SPECIFICITIES**
Osoegawa, K., Fernandez-Vina, M. A.
WILEY.2020: 317
- **Diversity of HLA Class I and Class II blocks and conserved extended haplotypes in Lacandon Mayans.** *Scientific reports*
Barquera, R., Zuniga, J., Flores-Rivera, J., Corona, T., Penman, B. S., Hernandez-Zaragoza, D. I., Soler, M., Jonapa-Gomez, L., Mallempati, K. C., Yescas, P., Ochoa-Morales, A., Barsakis, K., Aguilar-Vazquez, et al
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- **Interrogating the impact of KIR ligand mismatch in engraftment following HLA-disparate stem cell transplantation.** *Bone marrow transplantation*
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2020; 11: 941
- **Mixed chimerism and acceptance of kidney transplants after immunosuppressive drug withdrawal.** *Science translational medicine*
Busque, S. n., Scandling, J. D., Lowsky, R. n., Shizuru, J. n., Jensen, K. n., Waters, J. n., Wu, H. H., Sheehan, K. n., Shori, A. n., Choi, O. n., Pham, T. n., Fernandez Vina, M. A., Hoppe, et al
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- **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*
Dehn, J., Spellman, S., Hurley, C. K., Shaw, B. E., Barker, J. N., Burns, L. J., Confer, D. L., Eapen, M., Fernandez-Vina, M. A., Hartzman, R., Maiers, M., Marino, S. R., Mueller, et al
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- **HLA alleles and haplotypes observed in 263 US families.** *Human immunology*
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- **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
WILEY.2019: 264–65
- **DEEP ANALYSIS OF KIR2DL1 AND KIR3DL1S1 BY NEXT GENERATION SEQUENCING IN 3,695 INDIVIDUALS IDENTIFIES NOVEL VARIANTS WITH POSSIBLE FUNCTIONAL RELEVANCE**
Augusto, D. G., Nemat-Gorgani, N., Montero-Martin, G., Marin, W., Dandekar, R., Parham, P., Fernandez-Vina, M. A., Oksenberg, J. R., Norman, P. J., Hollenbach, J. A.
WILEY.2019: 286

- **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*
Creary, L. E., Mallempati, K. C., Gangavarapu, S., Caillier, S. J., Oksenberg, J. R., Fernandez-Vina, M. A.
2019; 25 (6): 772–82
- **HIGH-RESOLUTION HLA ALLELIC AND HAPLOTYPIC ASSOCIATION WITH MULTIPLE SCLEROSIS IN SPANISH POPULATION USING NEXT-GENERATION SEQUENCING**
Montero-Martin, G., Llufríu, S., Sepulveda, M., Armangue, T., Osoegawa, K., Mallempati, K. C., Gangavarapu, S., Creary, L. E., Caillier, S., Oksenberg, J. R., Villoslada, P., Saiz, A., Fernandez-Vina, et al
WILEY.2019: 340
- **DETERMINATION OF HLA HAPLOTYPES IN CZECH POPULATION USING NGS TYPING A FAMILY STUDY**
Petrek, M., Osoegawa, K., Gangavarapu, S., Kocourkova, L., Creary, L. E., Vayntrub, T., Fernandez-Vina, M. A.
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- **HLA HAPLOTYPES IN 250 FAMILIES: A CORE NGS TESTING MODEL FOR THE 17TH INTERNATIONAL HLA AND IMMUNOGENETICS WORKSHOP**
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- **FINE-SCALE DNA SEQUENCE ANALYSIS OF NINE HLA GENES SUGGESTS A DUAL ORIGIN OF THE VIETNAMESE CHAM**
Goery, T., Creary, L. E., Fernandez-Vina, M. A., An Vu-Trieu, Nunes, J., Sanchez-Mazas, A.
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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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- Hurley, C. K., Spellman, S. n., Dehn, J. n., Barker, J. N., Devine, S. n., Fernandez-Vina, M. n., Gautreaux, M. n., Logan, B. n., Maiers, M. n., Mueller, C. n., Perales, M. A., Yu, N. n., Pidala, et al
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 - **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** *BONE MARROW TRANSPLANTATION*
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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.
2016; 77 (10): 1004
 - **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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 - **Are changes in HLA Ags responsible for leukemia relapse after HLA-matched allogeneic hematopoietic SCT?** *Bone marrow transplantation*
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2015; 50 (3): 411-413
 - **HLA-DPB1 and HLA Class I Confer Risk of and Protection from Narcolepsy.** *American journal of human genetics*
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2015; 21 (1): 4-7
 - **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*
Ollila, H. M., Fernandez-Vina, M., Mignot, E.
2015; 38 (1): 147-151
 - **HLA allotype expressivity in transplantation** *BLOOD*
Fernandez-Vina, M.
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 - **HLA DQB1*06:02 Negative Narcolepsy with Hypocretin/Orexin Deficiency** *SLEEP*
Han, F., Lin, L., Schormair, B., Pizza, F., Plazzi, G., Ollila, H. M., Nevsimalova, S., Jennum, P., Knudsen, S., Winkelmann, J., Coquillard, C., Babrzadeh, F., Strom, et al
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- **Risk associations between HLA-DPB1 T-cell epitope matching and outcome of unrelated hematopoietic cell transplantation are independent of HLA-DPA1.** *Bone marrow transplantation*
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