




## Marcelo Fernandez Vina

Professor of Pathology (Research)

 Curriculum Vitae available Online

### CONTACT INFORMATION

- **Administrative Contact**

Felicia Gonsalves - Administrative Associate I

**Email** fmgon@stanford.edu

**Tel** 650-724-0100

### Bio

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#### 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 - University Medical Line, Pathology

### Publications

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#### PUBLICATIONS

- **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

2021

- **Remarkably low KIR and HLA diversity in Amerindians reveals signatures of strong purifying selection shaping the centromeric KIR region.** *Molecular biology and evolution*  
Vargas, L. d., Beltrame, M. H., Ho, B., Marin, W. M., Dandekar, R., Montero-Martin, G., Fernandez-Vina, M. A., Hurtado, A. M., Hill, K. R., Tsuneto, L. T., Hutz, M. H., Salzano, F. M., Petzl-Erler, et al  
2021
- **Challenges for the standardized reporting of NGS HLA genotyping: Surveying gaps between clinical and research laboratories.** *Human immunology*  
Osoegawa, K., Montero-Martin, G., Mallempati, K. C., Bauer, M., Milius, R. P., Maiers, M., Fernandez-Vina, M. A., Mack, S. J.  
2021
- **High Resolution Haplotype Analyses of Classical HLA Genes in Families With Multiple Sclerosis Highlights the Role of HLA-DP Alleles in Disease Susceptibility.** *Frontiers in immunology*  
Osoegawa, K., Creary, L. E., Montero-Martin, G., Mallempati, K. C., Gangavarapu, S., Caillier, S. J., Santaniello, A., Isobe, N., Hollenbach, J. A., Hauser, S. L., Oksenberg, J. R., Fernández-Vi#a, M. A.  
2021; 12: 644838
- **High Resolution Haplotype Analyses of Classical HLA Genes in Families With Multiple Sclerosis Highlights the Role of HLA-DP Alleles in Disease Susceptibility** *FRONTIERS IN IMMUNOLOGY*  
Osoegawa, K., Creary, L. E., Montero-Martin, G., Mallempati, K. C., Gangavarapu, S., Caillier, S. J., Santaniello, A., Isobe, N., Hollenbach, J. A., Hauser, S. L., Oksenberg, J. R., Fernandez-Vina, M. A.  
2021; 12
- **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  
2021
- **SELECTION OF AMINO ACIDS THAT DEFINE SEROLOGIC EPITOPES USED TO ASSIGN SYSTEMATICALLY COMMON SEROTYPES TO ALL PRESENT AND FUTURE HLA ALLELES**  
Osoegawa, K., Fernandez-Vina, M. A.  
WILEY.2021: 311
- **Behcet disease, New insights in disease associations and manifestations. A next generation sequencing study.** *Clinical and experimental immunology*  
Elfishawi, M., Mossallam, G., Augusto, D., Montero-Martin, G., de Bruin, H., Van de Pasch, L., Norman, P. J., Rozemuller, E., Fernandez-Vina, M., Abrudescu, A., Hollenbach, J. A., Zaky, K., Elfishawi, et al  
2021
- **High-Resolution Characterization of KIR Genes in a Large North American Cohort Reveals Novel Details of Structural and Sequence Diversity.** *Frontiers in immunology*  
Amorim, L. M., Augusto, D. G., Nemat-Gorgani, N., Montero-Martin, G., Marin, W. M., Shams, H., Dandekar, R., Caillier, S., Parham, P., Fernandez-Vina, M. A., Oksenberg, J. R., Norman, P. J., Hollenbach, 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*  
Shyr, D. C., Zhang, B. M., Saini, G., Madani, N. D., Schultz, L. M., Patel, S., Kristovich, K., Fernandez-Vina, M., Bertaina, A.  
2020
- **Specific class I HLA supertypes but not HLA zygosity or expression are associated with outcomes following HLA-matched allogeneic hematopoietic cell transplant: HLA supertypes impact allogeneic HCT outcomes.** *Biology of blood and marrow transplantation : journal of the American Society for Blood and Marrow Transplantation*  
Camacho-Bydume, C., Wang, T., Sees, J. A., Fernandez-Vina, M., Abid, M. B., Askar, M., Beitinjaneh, A., Brown, V., Castillo, P., Chharbra, S., Gadalla, S. M., Hsu, J., Kamoun, et al  
2020

- **Association of Human Leukocyte Antigens Class II Variants with Susceptibility to Hidradenitis Suppurativa in a Caucasian Spanish Population.** *Journal of clinical medicine*  
Ocejo-Vinyals, J. G., Gonzalez-Gay, M. A., Fernandez-Vina, M. A., Cantos-Mansilla, J., Vilanova, I., Blanco, R., Gonzalez-Lopez, M. A.  
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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**  
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  
WILEY.2020: 282
- **A NEW STRATEGY FOR SYSTEMATICALLY CLASSIFYING HLA ALLELES INTO SEROLOGICAL SPECIFICITIES**  
Osoegawa, K., Fernandez-Vina, M. A.  
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- **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*  
Li, L. n., Kolk, M. n., Fernandez-Vina, M. n., de Lima, M. n., Otegbeye, F. n.  
2020
- **Capturing Differential Allele-Level Expression and Genotypes of All Classical HLA Loci and Haplotypes by a New Capture RNA-Seq Method.** *Frontiers in immunology*  
Yamamoto, F., Suzuki, S., Mizutani, A., Shigenari, A., Ito, S., Kametani, Y., Kato, S., Fernandez-Vina, M., Murata, M., Morishima, S., Morishima, Y., Tanaka, M., Kulski, et al  
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- **Mixed chimerism and acceptance of kidney transplants after immunosuppressive drug withdrawal.** *Science translational medicine*  
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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.  
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- **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  
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  
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- **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., Dendekar, R., Parham, P., Fernandez-Vina, M. A., Oksenberg, J. R., Norman, P. J., Hollenbach, J. A.  
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- **ALLELIC POLYMORPHISM IN KIR3DL1S1 MEDIATES RISK IN MULTIPLE SCLEROSIS AND IS ASSOCIATED WITH INCREASED RELAPSE RATE AND BRAIN LESION BURDEN**  
Anderson, K., Marin, W., Dandekar, R., Augusto, D., Nemat-Gorgani, N., Parham, P., Fernandez-Vina, M., Oksenberg, J., Norman, P. J., Hollenbach, J.  
WILEY.2019: 284–85
  - **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., Llufrui, 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.  
WILEY.2019: 343–44
  - **HLA HAPLOTYPES IN 250 FAMILIES: A CORE NGS TESTING MODEL FOR THE 17TH INTERNATIONAL HLA AND IMMUNOGENETICS WORKSHOP**  
Askar, M., Madbouly, A., Zhrebker, L., Willis, A., Kennedy, S., Padros, K., Rodriguez, M., Bach, C., Spriewald, B. M., Ameen, R., Al Shemmari, S., Terassi, K., Tsirogianni, et al  
WILEY.2019: 270–71
  - **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.  
WILEY.2019: 338–39
  - **SEGREGATION OF EXTENDED HLA HAPLOTYPES IN FAMILIES FROM JAMAICA: A STUDY UNDER THE 17TH INTERNATIONAL HLA AND IMMUNOGENETICS WORKSHOP**  
Askar, M., Charlton, R. K., Dunk, A., Willis, A., Williams, J. D., Knudsen, T., Robinson, J., Kennedy, S., Nelson, W., Geraghty, D. E., Osoegawa, K., Fernandez-Vina, M. A.  
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  - **A specific amino acid motif of HLA-DRB1 mediates risk and interacts with smoking history in Parkinson's disease** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Hollenbach, J. A., Norman, P. J., Creary, L. E., Damotte, V., Montero-Martin, G., Caillier, S., Anderson, K. M., Misra, M. K., Nemat-Gorgani, N., Osoegawa, K., Santaniello, A., Renschen, A., Marin, et al  
2019; 116 (15): 7419–24
  - **Quality control project of NGS HLA genotyping for the 17th International HLA and Immunogenetics Workshop**  
Osoegawa, K., Vayntrub, T. A., Wenda, S., De Santis, D., Barsakis, K., Ivanova, M., Hsu, S., Barone, J., Holdsworth, R., Diviney, M., Askar, M., Willis, A., Railton, et al  
ELSEVIER SCIENCE INC.2019: 228–36
  - **A specific amino acid motif of HLA-DRB1 mediates risk and interacts with smoking history in Parkinson's disease.** *Proceedings of the National Academy of Sciences of the United States of America*  
Hollenbach, J. A., Norman, P. J., Creary, L. E., Damotte, V., Montero-Martin, G., Caillier, S., Anderson, K. M., Misra, M. K., Nemat-Gorgani, N., Osoegawa, K., Santaniello, A., Renschen, A., Marin, et al  
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*  
Creary, L. E., Guerra, S. G., Chong, W., Brown, C. J., Turner, T. R., Robinson, J., Bultitude, W. P., Mayor, N. P., Marsh, S. G., Saito, K., Lam, K., Duke, J. L., Mosbrugger, et al  
2019

- **Letter to the Editor regarding "Recipients receiving better HLA-matched hematopoietic cell transplantation grafts, uncovered by a novel HLA typing method, have superior survival: A retrospective study": 2019 May 2 Letter to the Editor *Biology of Blood and Marrow Transplantation*. *Biology of blood and marrow transplantation : journal of the American Society for Blood and Marrow Transplantation*  
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  
2019**
- **Correction: 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*  
Ciurea, S. O., Cao, K., Fernandez-Vina, M., Kongtim, P., Malki, M. A., Fuchs, E., Luznik, L., Huang, X., Ciceri, F., Locatelli, F., Aversa, F., Castagna, L., Bacigalupo, et al  
2018**
- **Donor-specific anti-HLA antibodies in unrelated hematopoietic cell transplantation for non-malignant disorders. *Bone marrow transplantation*  
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2018**
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- **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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- **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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2015; 21 (8): 1392-8**
- **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.  
2015; 50 (3): 411-413**
- **HLA-DPB1 and HLA Class I Confer Risk of and Protection from Narcolepsy. *American journal of human genetics*  
Ollila, H. M., Ravel, J., Han, F., Faraco, J., Lin, L., Zheng, X., Plazzi, G., Dauvilliers, Y., Pizza, F., Hong, S., Jennum, P., Knudsen, S., Kornum, et al  
2015; 96 (1): 136-146**
- **Recommendations for Donor Human Leukocyte Antigen Assessment and Matching for Allogeneic Stem Cell Transplantation: Consensus Opinion of the Blood and Marrow Transplant Clinical Trials Network (BMT CTN). *Biology of blood and marrow transplantation*  
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.  
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.  
2014; 124 (26): 3839–40**
- **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  
2014; 37 (10): 1601-1608**

- **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  
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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2014; 84 (3): 285-292
- **Risk associations between HLA-DPB1 T-cell epitope matching and outcome of unrelated hematopoietic cell transplantation are independent of HLA-DPA1.** *Bone marrow transplantation*  
Fleischhauer, K., Fernandez-Viña, M. A., Wang, T., Haagenson, M., Battiwalla, M., Baxter-Lowe, L. A., Ciceri, F., Dehn, J., Gajewski, J., Hale, G. A., Heemskerk, M. B., Marino, S. R., McCarthy, et al  
2014; 49 (9): 1176-1183
- **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*  
Sengsayadeth, S., Wang, T., Lee, S. J., Haagenson, M. D., Spellman, S., Fernandez Viña, M. A., Muller, C. R., Verneris, M. R., Savani, B. N., Jagasia, M.  
2014; 20 (6): 900-903
- **Identification of a permissible HLA mismatch in hematopoietic stem cell transplantation.** *Blood*  
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2014; 123 (8): 1270-1278
- **Impact of allele-level HLA matching on outcomes after myeloablative single unit umbilical cord blood transplantation for hematologic malignancy** *BLOOD*  
Eapen, M., Klein, J. P., Ruggeri, A., Spellman, S., Lee, S. J., Anasetti, C., Arcese, W., Barker, J. N., Baxter-Lowe, L. A., Brown, M., Fernandez-Vina, M. A., Freeman, J., He, et al  
2014; 123 (1): 133-140
- **Dual Cases of Type 1 Narcolepsy with Schizophrenia and Other Psychotic Disorders** *JOURNAL OF CLINICAL SLEEP MEDICINE*  
Canellas, F., Lin, L., Rosa Julia, M., Clemente, A., Vives-Bauza, C., Ollila, H. M., Hong, S. C., Arboleya, S. M., Einen, M. A., Faraco, J., Fernandez-Vina, M., Mignot, E.  
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*  
Pidala, J., Wang, T., Haagenson, M., Spellman, S. R., Askar, M., Battiwalla, M., Baxter-Lowe, L. A., Bitan, M., Fernandez-Vina, M., Gandhi, M., Jakubowski, A. A., Maiers, M., Marino, et al  
2013; 122 (22): 3651-3658
- **HLA Class I and Class II Conserved Extended Haplotypes and Their Fragments or Blocks in Mexicans: Implications for the Study of Genetic Diversity in Admixed Populations** *PLOS ONE*  
Zuniga, J., Yu, N., Barquera, R., Alosco, S., Ohashi, M., Lebedeva, T., Acuna-Alonzo, V., Yunis, M., Granados-Montiel, J., Cruz-Lagunas, A., Vargas-Alarcon, G., Rodriguez-Reyna, T. S., Fernandez-Vina, et al  
2013; 8 (9)
- **Multiple mismatches at the low expression HLA loci DP, DQ, and DRB3/4/5 associate with adverse outcomes in hematopoietic stem cell transplantation.** *Blood*  
Fernández-Viña, M. A., Klein, J. P., Haagenson, M., Spellman, S. R., Anasetti, C., Noreen, H., Baxter-Lowe, L. A., Cano, P., Flomenberg, N., Confer, D. L., Horowitz, M. M., Oudshoorn, M., Petersdorf, et al  
2013; 121 (22): 4603-4610
- **Birth Order and Transplantation Outcome in HLA-Identical Sibling Stem Cell Transplantation: An Analysis on Behalf of the Center for International Blood and Marrow Transplantation** *BIOLOGY OF BLOOD AND MARROW TRANSPLANTATION*  
Dobbelstein, C., Ahn, K. W., Haagenson, M., Hale, G. A., Van Rood, J. J., Miklos, D., Waller, E. K., Spellman, S. R., Fernandez-Vina, M., Ganser, A., Aljurf, M., Bornhaeuser, M., Gupta, et al  
2013; 19 (5): 741-745
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