

**UNIVERSITY OF MIAMI MILLER SCHOOL OF MEDICINE  
CURRICULUM VITAE**

**FRANCISCO VEGA, MD, PhD**

1. Date: September, 2017

**I. PERSONAL**

2. Current Academic Rank: Professor  
3. Primary Department: Pathology (Hematopathology)  
4. Secondary Joint Appointment: Clinical Medicine (Professor)

**II. HIGHER EDUCATION:**

**Institutional:**

University Complutense of Madrid,  
Doctor of Medicine and Surgery, June 1992  
Madrid, Spain

University of Navarra  
Doctor of Philosophy (Cell Biology), 1997  
Pamplona, Spain

**Non-Institutional:**

Residency: Department of Anatomic Pathology, Clinical  
University of Navarra, Pamplona, Spain  
January 1994 – December 1997

Fellowship: Department of Hematopathology, Research  
The University of Texas MD Anderson Cancer Center  
December 1999 – August 2002

Fellowship: Department of Pathology, Research  
Baylor College of Medicine  
September 2002 – March 2003

Residency: Department of Anatomic Pathology, Clinical  
Baylor College of Medicine  
March 2003 – March 2005

Fellowship: Department of Hematopathology, Clinical

The University of Texas MD Anderson Cancer Center  
July 2005 – June 2006

**Certification, Licensure:**

Florida Medical Board, June 2013 – Present  
Texas Medical Board, October 2006 – Present  
Indiana Medical Board, 2005 – 2007 (inactive)  
American Board of Hematopathology, September 2007  
American Board of Anatomic Pathology, August 2005  
License in Anatomic Pathology, Spain, December 1997  
License in Medicine and Surgery, Spain, July 1992  
Educational Commission for Foreign Medical Graduates, August 2002

**III. EXPERIENCE/SERVICE**

**Academic Appointments**

University of Miami/Sylvester Comprehensive Cancer Center  
Director of Hematopathology, Department of Pathology  
September 2013 – Present

University of Miami/Sylvester Comprehensive Cancer Center  
Professor, Department of Clinical Medicine  
July 2015 – Present

University of Miami/Sylvester Comprehensive Cancer Center  
Professor, Hematopathology, Department of Pathology  
September 2013 – Present

Member of the Sheila and David Fuente Graduate Program in Cancer Biology  
University of Miami  
February 2014-Present

The University of Texas MD Anderson Cancer Center  
Lymphoma section chief, Department of Hematopathology, Pathology/Lab  
Medicine; January 2012- August 2013

The University of Texas MD Anderson Cancer Center  
Associate Professor, Tenure, Department of Hematopathology, Pathology/Lab  
Medicine  
September 2011- August 2013

The University of Texas MD Anderson Cancer Center  
Assistant Professor, Department of Hematopathology  
July 2006 – September 2011  
Complejo Hospitalario de Orense (Galicia; Spain)  
Faculty, Department of Anatomic Pathology  
January 1998 – November 1999

**Non-Academic:** None

**Military:** None

#### IV. PUBLICATIONS

##### **Books and Monographs published:**

1. Multiple book chapters for the forth series of the Tumors of the Lymph node and Spleen lymphoma; Atlas of Tumor Pathology of the AFIP (Armed Forces Institute of Pathology) Scheduled for September 2017.
2. Blieden C, Agarwal NK, **Vega F**. Microenvironment abnormalities and cytokine network deregulation in lymphoma genesis and progression. Future Science Group. UK, London, 35-50, 2015
3. **Vega F**. Lymphomas involving the lung and pleura. In: Annikka Weissferdt & Cesar A. Moran, editors. Diagnostic Pathology of Pleuropulmonary Neoplasia. Springer: New York, 319-347, 2013.
4. Leventaki V, **Vega F**. Molecular Diagnostics of Lymphoid Malignancies. In: Cheng, Zhang and Eble editors. Molecular Genetic Pathology. 2<sup>nd</sup> edition Springer. 887-928, 2013.
5. Cho-Vega JH, **Vega F**. Essentials in Cancer Cytogenetics. In: Garcia-Foncillas, J editor. Molecular Biology in cancer, an approach to new therapies. Barcelona: Prouse Science: Barcelona, 1-27, 2009.
6. **Vega F**, Jones D. Molecular Diagnostics of Lymphoid Malignancies. In: Essentials of Molecular/Genetic Pathology. Humana Press, 655-674, 2008.
7. **Vega F**, Toledo G. Alteraciones Anatomo-Patologicas de las Vias Aereas en el Asma bronquial. In: Asma Vision Actual. Aula Medica Ediciones, 33-54, 2001.
8. Idoate M, **Vega F**. Mecanismos Implicados en la Afectacion Cutanea por la Enfermedad de Injerto contra Huesped. In: Fisiopatologia de las Enfermedades Cutaneas II. Schering Plough, 281-303, 1999.
9. Cervera J, **Vega F**, Garcia-Tapia R. Estructura Histologica de las Cuerda Vocal. In: Diagnostico y Tratamiento de la Voz. Garsi, 48-53, 1996.
10. Cervera J, **Vega F**, Garcia-Tapia R. Lesiones Benignas de las Cuerdas Vocales. In: Diagnostico y Tratamiento de los Transtornos de la Voz. Garsi, 223-240, 1996.
11. **Vega F**, Panizo A, Pardo-Mindan FJ. Caracteristicas Biologicas de los Tumores. In: Enfermeria Oncologica. Ediciones Eunsa, 15-45, 1995.

**Author of the following chapters for the Book Diagnostic Pathology Series Amirsys:**  
*-Lymphomas and reactive diseases involving lymph nodes, spleen with extranodal lymphomas.* In: LJ Medeiros editor. Amirsys. Salt Lake City, Utah.

Syphilitic Lymphadenitis 2:54-55,  
Inflammatory Pseudotumor Involving Lymph Node 3:2-7,  
Diffuse Large B-cell Lymphoma, NOS, centroblastic 6:52-55,  
Diffuse Large B-cell Lymphoma, NOS, Immunoblastic 6:56-61,  
T-cell/Histiocyte Rich Large B-cell Lymphoma 6:62-65,  
Plasmablastic Lymphoma 7:68-77,  
Primary effusion lymphoma (PEL) and solid variant of PEL 7:78-83,  
Primary Mediastinal (Thymic) Large B-cell Lymphoma 7:34-43,  
Lymphomatoid Granulomatosis 7:86-95,  
Intravascular Large B-cell Lymphoma 7:96-101,  
B-cell Lymphomas, unclassifiable, with features intermediate between Diffuse Large B cell Lymphoma and Classical Hodgkin Lymphoma 8:8-17,  
Anaplastic Large Cell Lymphoma, ALK+ 9:30-35,  
Anaplastic Large Cell Lymphoma, ALK-, 9:36-39,  
Classical Hodgkin Lymphoma in Spleen, 14:82-85  
Hepatosplenic T-cell Lymphoma, 14:86-95.

-Author of additional lymphoma chapters for the Diagnostic Pathology Series for the following books:

Neoplastic Dermatopathology. In: D. Cassarino editor. Amirsys publishing, 2013  
Intravascular large B cell lymphoma involving the skin, I12:28-31.

Familial Cancer Syndromes. In: V. Nose editor. Amirsys publishing, 2014  
Diffuse large B cell lymphoma, II-2:8-13.

Diagnostic Pathology Spleen. In A. Auerbach editor. Amirsys publishing, 2014  
Hepatosplenic T-cell lymphoma, 3:208-215.

### **Manuals, Teaching Aids**

Pardo-Mindan FJ, Sola I, Idoate M, de Alva E, Lozano MD, Panizo A, **Vega F**, Diaz L, Fernandez J. CD-ROM INTERPAT Interactive Teaching of Anatomic Pathology by Computer, 1999. Pamplona (Navarra, Spain).

### **Juried or Refereed Journal Articles:**

1. Chapman J, **Vega F**. Incidental brown tissue in bone marrow. Blood 2017 (In press).
2. Cassidi PD, **Vega F**, Chapman J. EBV-Positive Extranodal Marginal Zone Lymphoma of Bronchial-Associated Lymphoid Tissue in the Post-Transplant Setting: An

Immunodeficiency-Related (Post-Transplant) Lymphoproliferative Disorder. *Am J Clin Pathol* (In press).

3. Khanlari M, Ramos JC, Cho-Vega JH, Campuzano-Zuluaga G, **Vega F**, Chapman J, Adult T-cell Leukemia / Lymphoma can be indistinguishable from other more common T-cell lymphomas. The University of Miami experience with a large cohort of cases. *Mod Pathol* (In press).

4. Chapman J, **Vega F**. Indolent ALK-Negative Anaplastic Large Cell Lymphoma, *DUSP22* Rearranged, with an Unusual Immunophenotype in an HIV Patient. *Histopathology* 70:1173-1175; 2017. PMID: 28042680

5. Watts, JM, Perez A, Pereira L, Fan YS, Brown G, **Vega F**, Petrie K, Swords RT, Zelent A. A case of AML characterized by a novel t(4;5)(q31;q22) translocation that confers a growth stimulatory response to retinoid-based therapy. *Int J Mol Sci* 18:E1492, 2017. PMID: 28696354

6. Chapman J, Geyer JT, Khanlari M, Moul A, Casas C, Conner ST, Fan YS, Watts JM, Swords RT, **Vega F**, Orazi A. Myeloid neoplasms with features intermediate between primary myelofibrosis and chronic myelomonocytic leukemia. *Mod Pathol* 2017 (In press).

7. Lyapichev K, Chapman J, Iakymenko O, Ikpatt F, Teomete U, Sanchez S and **Vega F**. Bone Marrow-Liver-Spleen Type of Large B-Cell Lymphoma Associated with Hemophagocytic Syndrome: A Rare Aggressive Extranodal Lymphoma. *Case Rep Hematol* (In press).

8. Bhatt S, Parvin S, Zhang Y, Cho HM, Kunakalla K, **Vega F**, Timmerman JM, Shin SU, Rosenblatt JD, Lossos IS. Anti-CD20-interleukin-21 fusokine targets malignant B-cells via direct apoptosis and NK-cell dependent cytotoxicity. *Blood* 129:2246-2256; 2017. PMID: 28137826.

9. Villada G, **Vega F**. Clusters of paracortical plasmacytoid dendritic cells in lupus lymphadenitis. *Blood* 129:1884; 2017. PMID: 28360360.

10. Mackrides N, Campuzano-Zuluaga G, Maque-Acosta Y, Moul A, Hijazi N, Ikpatt FO, Levy R, Verdun RE, Kunakalla K, Natkuman Y, Lossos IS, **Vega F**, Chapman J. EBV-positive follicular lymphoma. *Mod Pathol* 30:519-529; 2017. PMID: 27982024.

11. De la Fuente MI, Haggiani A, Moul A, Young RJ, Sidani C, Markoe A, **Vega F**, DeAngelis LM, Lossos IS. Marginal Zone Dural Lymphoma: the Memorial Sloan Kettering Cancer Center and University of Miami Experiences. *Leuk Lymph* 58:882-888; 2017. PMID 27649904

12. Wu SC, Chapman JR, **Vega F**, Abrahams N, Lossos IS, Alderuccio JP Hepatosplenic T-cell lymphoma associated with membranoproliferative glomerulonephritis. *Leuk Lymphoma* 28:1-4; 2017. PMID: 28351190.
13. Desai A, Joag MG, Lekakis L, Chapman JR, **Vega F**, Tibshirani R, Tse D, Markoe A, Lossos IS. Long-term course of patients with primary ocular adnexal MALT lymphoma: a large single institution cohort study. *Blood* 129:324-332; 2017. PMID: 27789481
14. Gil VS, Bhagat G, Howell L, Zhang J, Kim CH, Stengel S, **Vega F**, Zelent A, Petrie K. Deregulated expression of HDAC9 in B-cells promotes development of lymphoproliferative disease and lymphoma. *Dis Model Mech* 9:1483-1495; 2016. PMID:27799148
15. Cortizas E, Zahn A, Safavi S, Reed J, **Vega F**, Di Noia J, Verdun R. UNG protects B cells from AID-induced telomere loss. *J Exp Med* 213:2459-2472; 2016. PMID:27697833.
16. Alderuccio JP, Amarapurkar P, Chapman JR, **Vega F**, Lossos IS. Characteristics and outcomes of lymphoblastic lymphoma – the University of Miami experience. *Leuk Lymph* 2:1-4 2016. PMID 27252116
17. Kozloski GA, Jiang X, Bhatt S, Ruiz J, **Vega F**, Shaknovich R, Melnick A, Lossos IS. MiR-181a negatively regulates NF- $\kappa$ B signaling and affects activated B-cell like diffuse large B-cell lymphoma pathogenesis. *Blood* 127;2856-66; 2016. PMID: 26941399
18. Agarwal NK, Kim CH, Kunkalla K, Konno H, Tjendra Y, Kwon D, Blonska M, Kozloski GA, Moy VT, Verdun RE, Barber GN, Lossos IS, **Vega F**. Active IKK $\beta$  Promotes the Stability of GLI1 Oncogene in Diffuse Large B-cell Lymphoma. *Blood* 127:605-615; 2016. PMID: 26603838
19. Yabe M, Medeiros LJ, Tang G, Wang S, Ahmed S, Nieto Y, Hu S, Bhagat G, Oki Y, Patel K, Routnort M, Luthra R, Fanale M, Bueso-Ramos C, Jorgensen J, **Vega F**, Chen W, Hoehn D, Konoplev S, Milton D, Wistuba I, Li S, You J, Young K, Miranda R. Prognostic factors of Hepatosplenic T cell lymphoma. Clinicopathologic study of 28 cases. *Am J Surg Pathol* 40; 676-88; 2016 PMID:26872013
20. Campuzano-Zuluaga G, Deutsch Y, Salzberg M, Gomez A, Vargas F, Elias R, Kwon D, Goodman M, Ikpatt OF, Chapman JR, Watts J, **Vega F**, Swords R. Routine interim disease assessment in patients undergoing induction chemotherapy for acute myeloid leukemia: Can we do better? *Am J Hematol* 91:277-82; 2016. PMID:26663264
21. Campuzano-Zuluaga G, Ortiz D, Peng JH, Ikpatt OF, Fan YS, Barredo JC, **Vega F**, Chapman FR. Primary mediastinal large B-cell lymphoma with translocations involving BCL6 and MYC. *Am J Clin Pathol* 145:710-6; 2016 PMID: 27124935

22. Bueso-Ramos CE, Medeiros LJ, **Vega F**. Introduction to the 2013 workshop of the society for hematopathology/European association for hematopathology. *Am J Clin Pathol* 144:4-5; 2015 PMID:26071457
23. Samaniego F, Hagemeister F, Romaguera JE, Fanale MA, Pro B, McLaughlin P, Rodriguez MA, Neelapu SS, Fayad L, Younes A, Feng L, Berkova Z, Khashab T, Sehgal L, **Vega F**, Kwak LW. Pentostatin, cyclophosphamide and rituximab for previously untreated advanced stage, low-grade B cell lymphomas. *Br J Haematol* 169:814-23; 2015. PMID: 25828695
24. Ruiz-Cordero R, Chapman J, **Vega F**. Synaptophysin is frequently expressed in megakaryocytes: a novel immunohistochemical finding of unknown significance. *Rev LatinoAmer Patol Clin* 62:76-80; 2015.
25. Chapman-Fredricks J, Gentles A, Sujoy V, **Vega F**, Dumar C, Blevins T, Bernal-Mizrachi L, Mosunjac M, Pimentel A, Zhu D, Lossos I. Gene Expression Analysis of Plasmablastic Lymphoma Identifies Down Regulation of B Cell Receptor Signaling and Additional Unique Transcriptional Programs. *Leukemia* 29:2270-3;2015. PMID: 25921246
26. Blonska M, Agarwal N, **Vega F**. Shaping of the tumor microenvironment: stromal cells and vessels. *Semin Cancer Biol* 34:3-13; 2015. PMID: 25794825
27. Ruiz-Cordero, R, Lewis J, Blieden C, Campuzano-Zuluaga G, Hernandez J, Lossos IS, Ikpatt F, Chapman JR, **Vega F**. Unusual immunophenotypic variant of large B-cell lymphoma associated with HHV-8 and EBV in an HIV positive patient. *Hum Path: Case Reports* 2:49-54; 2015.
28. Zhu D, Bhatt S, Lu V, Guo F, Veelken H, Hsu D, Liu F, Cubela S, Kunkalla K, **Vega F**, Chapman-Fredricks J, and Lossos I. Chlamydomonada psittaci negative ocular adnexal marginal zone lymphomas express self polyreactive B cell receptors. *Leukemia* 29:1587-99; 2015 PMID: 25676418
29. Blonska M, Zhu Y, Chuang HH, You JM, Kunkalla K, **Vega F**, Lin X. Jun-regulated genes promote interaction of diffuse large B cell lymphoma with the microenvironment. *Blood* 125:981-91; 2015 PMID: 25533033
30. **Vega F**, Medeiros LJ, Bueso-Ramos CE, Arboleda P, Miranda RN. Hematolymphoid Neoplasms associated with rearrangements of *PDGFR-A*, *PDGFR-B* and *FGFR1*. *Am J Clin Pathol* 144:377-92; 2015. PMID:26276769
31. Blieden C, Fan YS, Chapman JR, **Vega F**. De novo acute myeloid leukemia with monocytoid blasts and erythrophagocytosis. *Clin Case Rep* 2:333-5; 2014
32. Blieden C, Campuzano-Zuluaga G, Moul A, Chapman JR, Cioffi-Lavina, Ikpatt

OF Byrne GE, **Vega F**. Anaphylactic Reaction to Platelet Transfusion as the Initial Symptom of an Undiagnosed Systemic Mastocytosis: A Case Report and Review of the Literature. *J Med Case Rep* 26;8:389; 2014

33. Blieden C, Medeiros LJ, **Vega F**. Acquired B-cell immunophenotype of follicular dendritic cells in a B-cell depleted lymph node after treatment with rituximab *Ann Hematol* 93:1947-8; 2014

34. Chapman-Fredricks J, Sandoval-Sus J, **Vega F**, Lossos IS. Progressive Leukemic Non-nodal Mantle Cell Lymphoma Associated with Deletions of TP53, ATM, and / or 13q14. *Ann Diagn Pathol* 18:214-9, 2014

35. Gera S, Dekmezian MS, Duvic M, Tschen J, **Vega F**, Cho-Vega JH. Blastic plasmacytoid dendritic cell neoplasm: evolving insights in an aggressive hematopoietic malignancy with a predilection of skin involvement. *Am J Dermatopathol* 36:244-51; 2014.

36. Cho-Vega JH, **Vega F**, CD30-negative lymphomatoid papulosis type D in an elderly man. *Am J Dermatopathol* 36:190-2, 2014.

37. Leventaki V, Oki Y, Romaguera J, **Vega F**. Indolent Peripheral T-Cell Lymphoma Involving the Gastrointestinal Tract. *Human Pathol* 45:421-6, 2014.

38. Oki Y, Westin JR, **Vega F**, Chuang H, Fowler N, Neelapu S, Hagemester FB, McLaughlin P, Kwak LW, Romaguera JE, Fanale M, Younes A, Rodriguez MA, Orłowski RZ, Wang M, Ouzounian ST, Samaniego F, Fayad L. Prospective phase II study of rituximab with alternating cycles of hyper-CVAD and high-dose methotrexate with cytarabine for young patients with high-risk diffuse large B-cell lymphoma. *Br J Haematol* 163:611-20, 2013. PMID:24117234

39. Merrit BY, Curry JL, Duvic M, **Vega F**, Sheehan AM, Curry CV. Pediatric subcutaneous panniculitis-like T-cell lymphoma with features of hemophagocytic syndrome. *Pediatr Blood Cancer* 60:1916-7, 2013.

40. Handal B, Entow R, Lara D, Bailey M, **Vega F**, Hu P, Lennon A. Investigating the expression of oncogenic and tumor suppressive microRNA in DLBCL. *J Assoc Genet Technol* 39: 14-20; 2013.

41. Sánchez-Espiridión B, Martín-Moreno AM, Montalbán C, Figueroa V, **Vega F**, Younes A, Medeiros LJ, Álvés FJ, Canales M, Estévez M, Menarguez J, Sabín P, Ruiz-Marcellán MC, Lopez A, Sánchez-Godoy P, Burgos F, Santonja C, López JL, Piris MA, Garcia JF. MicroRNA signatures and treatment response in patients with advanced classical Hodgkin lymphoma. *Br J Haematol* 162:336-47, 2013.

42. Jain P, **Vega F**, Faderl S. “Cup-like” blasts and NPM1 and FLT3 (ITD) mutations in acute myeloid leukemia (AML). *Int J Hematol* 98:3; 2013.



43. Qu C, Liu Y, Kunkalla K, Sing RR, Blonska, M, Lin X, Agarwal NK, **Vega F**. Trimeric G protein-CARMA1 axis links smoothed, the hedgehog receptor transducer, to NF-KB activation in diffuse large B-cell lymphoma. *Blood* 121:4718-28, 2013.
44. Agarwal NK, Qu C, Kunkalla K, Liu Y, **Vega F**. Transcriptional regulation of Serine/threonine protein kinase (AKT) genes by glioma-associated oncogene homolog 1. *J Biol Chem* 288:15390-401, 2013
45. Rawal S, Chu F, Zhang M, Park HJ, Nattamai D, Kannan S, Sharma R, Delgado D, Chou T, Lin HY, Baladandaythapani V, Luong A, **Vega F**, Fowler N, Dong C, Davis E, Neelapu SS. Cross talk between follicular helper T cells and tumor cells in human follicular lymphoma promotes immune evasion in the tumor microenvironment. *J Immunol* 190:6681-93, 2013.
46. **Vega F**. Time to look for CD30 expression in diffuse large B cell lymphomas, along the way to immunotherapy. *Leuk Lymphoma* 54:2341-2; 2013.
47. Kunkalla K, Liu Y, Changju Q, Leventaki V, Agarwal NK, Singh R, **Vega F**. Functional Inhibition of BCL2 is needed to Increase the Susceptibility to Apoptosis to SMO Inhibitors in Diffuse Large B-Cell Lymphoma of Germinal Center Subtype. *Ann Hematol* 92:777-87, 2013.
48. Li S, Feng X, Li T, Zhang S, Zuo Z, Lin P, Konoplev S, Bueso-Ramos CE, **Vega F**, Medeiros LJ, Yin CC. Extranodal NK/T cell lymphoma, nasal type: a report of 73 cases at MD Anderson Cancer Center. *Am J Surg Pathol* 37:14-23, 2013.
49. Kanagal-Shamanna R, Medeiros LJ, Lu G, Wang SA, Manning JT, Lin P, Penn GM, Young KH, You MJ, **Vega F**, Bassett R, Miranda RN. High-grade B cell lymphoma unclassifiable, with blastoid feature: an unusual morphological subgroup associated frequently with BCL2 and/or MYC gene rearrangements and a poor prognosis. *Histopathology* 61:945-54, 2012.
50. Greaves WO, Xiao L, Sanchez-Espiridion B, Kunkalla K, Dave KS, Liang CS, Singh RR, Younes A, Medeiros LJ, **Vega F**. Detection of ABCC1 expression in classical Hodgkin lymphoma is associated with increased risk of treatment failure using standard chemotherapy protocols. *J Hematol Oncol* 5:47, 2012. PMID:3470996
51. Ramirez E, Singh RR, Kunkalla K, Liu Y, Cain C, Multani AS, Lennon PA, Jackacky J, Dawud S, Gu J, Yang S, Hu PC, **Vega F**. Defining causative factors contributing in the activation of hedgehog signaling in diffuse large B-cell lymphoma. *Leuk Res* 36:1267-73, 2012.
52. Buglio D, Palakurthi S, Byth K, **Vega F**, Toader D, Saeh J, Neelapu SS, Younes A. Essential role of TAK1 in regulating mantle cell lymphoma survival. *Blood* 120:347-55, 2012. PMID:22649101

53. Li C, Thompson MA, Tamayo AT, Zuo Z, Lee J, **Vega F**, Ford RJ, Pham LV. Over-expression of thioredoxin-1 mediates growth, survival, and chemoresistance and is a drugable target in diffuse large B-cell lymphoma. *Oncotarget* 3:314-26, 2012. PMID:3359887
54. Kim K, Leventaki L, Bhajjee F, Jackson CC, Medeiros LJ, **Vega F**. Extracavitary/Solid Variant of Primary Effusion Lymphoma. *Ann Diagn Pathol* 16:441-6, 2012.
55. Sanchez-Espiridion B, Martin-Moreno AM, Montalban C, Medeiros LJ, **Vega F**, Younes A, Piris MA, Garcia JF. Immunohistochemical markers for tumor associated macrophages and survival in advanced classical Hodgkin lymphoma. *Haematologica* 97:1080-4, 2012. PMID:3396681
56. Meadows SA, **Vega F**, Kashishian A, Johnson D, Diehl V, Miller LL, Younes A, Lannutti BJ. PI3K $\delta$  inhibitor, GS-1101(CAL-101), attenuates pathway signaling, induces apoptosis, and overcomes signals from the microenvironment in cellular models of Hodgkin lymphoma. *Blood* 119:1897-900, 2012 PMID:22210877
57. Moretti L, Medeiros LJ, Kunkalla K, Williams MD, Singh RR, **Vega F**. N-terminal PAX8 polyclonal antibody shows cross-reactivity with N-terminal region of PAX5 and is responsible for reports of PAX8 positivity in malignant lymphomas. *Mod Pathol* 25:231-6, 2012.
58. Ok CH, Singh RR, **Vega F**. Aberrant activation of hedgehog signaling pathway in hematological neoplasms. *Am J Pathol* 180:2-11, 2012. PMC 3338341
59. Drakos E, Leventaki V, Atsaves V, Schlette EJ, Lin P, **Vega F**, Miranda RN, Claret FX, Medeiros LJ, Rassidakis GZ. Expression of serine 194-phosphorylated Fas-associated death domain protein correlates with proliferation in B-cell non-Hodgkin-type lymphomas. *Hum Pathol* 42:1117-24, 2011.
60. Cho-Vega JH, **Vega F**. CD4 CD8 Double-Negative Early Stage Mycosis Fungoides Associated with Primary Cutaneous Follicular Center Lymphoma. *J Am Acad Dermatol* 65:884-6, 2011.
61. Drakos E, Singh RR, Rassidakis GZ, Schlette EJ, Li J, Claret FX, Ford RJ, **Vega F**, Medeiros LJ. Activation of p53 pathway by MDM2 inhibitor nutlin-3a overcomes BCL2 overexpression in a preclinical model of diffuse large B-cell lymphoma. *Leukemia* 25:856-67, 2011.
62. Singh R, Kunkalla K, Qu C, Schlette E, Neelapu S, Samaniego F, **Vega F**. ABCG2 is a Direct Transcriptional Target of Hedgehog Signaling and Involved in Stroma-Induced Drug Tolerance in Diffuse Large B-Cell Lymphoma. *Oncogene* 30:4874-86, 2011. PMID:3165099

63. Curry LJ, Prieto VG, Jones DM, **Vega F**, Duvic M, Diwan AH. Transient iatrogenic immunodeficiency-related B-cell lymphoproliferative disorder of the skin in a patient with mycosis fungoides/Sezary syndrome. *J Cutan Pathol* 38:295-7, 2011.
64. Greaves WO, Kim JE, Singh RR, Drakos E, Kunkalla K, Sánchez-Espiridión B, Garcia JF, Medeiros LJ, **Vega F**. Glioma associated oncogene homologue 3 (GLI3), a hedgehog transcription factor, is highly expressed in Hodgkin and Reed-Sternberg cells of classical Hodgkin lymphoma. *Hum Pathol* 42:1643-52, 2011. PMID:3165071
65. Hsu C, **Vega F**, Grimes LM, Hunt KK. Follicular dendritic cell sarcoma and associated myasthenia gravis: true, true, related? *J Clin Oncol* 29:369-71, 2011.
66. Pham LV, Fu L, Tamayo AT, Bueso-Ramos C, Drakos E, **Vega F**, Medeiros LJ, Ford RJ. Constitutive BR3 receptor signaling in diffuse large B-cell lymphomas stabilizes NK- $\kappa$ B-inducing kinase, while activating both canonical and alternative NF- $\kappa$ B pathways. *Blood* 117:200-10, 2011. PMID: 3037744.
67. Huh YO, Schweighofer CD, Ketterling RP, Knudson RA, **Vega F**, Kim JE, Luthra R, Keating MJ, Medeiros LJ, Abruzzo LV. Chronic Lymphocytic Leukemia With t(14;19)(q32;q13) Is Characterized by Atypical Morphologic and Immunophenotypic Features and Distinctive Genetic Features. *Am J Clin Path* 135:686-96, 2011.
68. Vishwamitra D, Shi P, Wilson D, Manshoury R, **Vega F**, Schlette EJ, Amin HM. Expression and effects of inhibition of IGF-IR tyrosine kinase in mantle cell lymphoma. *Haematologica* 96:871-90, 2011. PMID:3105649.
69. **Vega F**, Medeiros LJ. V(D)J recombination and staggered DNA breaks: guilty again. *Blood* 115:2121-2, 2010.
70. Wang SA, Jabbark, Lu G, Chen SS, Galili N, **Vega F**, Jones D, Raza A, Kantarjian H, Garcia-Manero G, McDonnell TJ, Medeiros LJ. Trisomy 11 in myelodysplastic syndromes defines a unique group of disease with aggressive clinicopathologic features. *Leukemia* 24:740-7, 2010.
71. **Vega F**, Davuluri Y, Cho-Vega JH, Ma S, Wang RU, Multani AS, Drakos I, Pham L, Shen L, Ambrus J, Medeiros LJ, Ford R. Side population contains cells with "tumor-initiating cell" features responsible for lymphoma maintenance and systemic dissemination. *J Cell Mol Med* 14:1532-45, 2010.
72. Singh RR, Kim JE, Davuluri Y, Drakos-E, Cho-Vega JH, Amin H, **Vega F**. Hedgehog-signaling pathway contributes to tumor cell survival and proliferation in diffuse large B-cell lymphoma. *Leukemia* 24:1025-36, 2010.
73. Cho-Vega JH, Tschen J, Duvic M, **Vega F**. Early stage mycosis fungoides variants: Case based review. *Ann Diagn Pathol* 14:369-85, 2010.

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48.-Sanchez-Espiridion B, Montalban C, Guisado P, Rodriguez ME, Canales M, Alves J, **Vega F**, Morente M, Tomás JF, Piris MA Garcia JF. microRNA expression signatures as prognostic markers in advanced classical Hodgkin lymphoma. *Blood* 116A:1692, 2010.

49.-Singh R, Kunkalla K, Greaves W, **Vega F**. Stroma-induced increase in ABCG2 Expression is involved in resistance to chemotherapy in diffuse large B-cell lymphoma. *Blood* 116A:428, 2010

50.-Garcia F, Sanchez-Espiridion B, Rodriguez ME, Canales M, Alves FJ, **Vega F**, Morente MM, Tomas JF, Montalban C, Guisado PM, Piris MA. miRNA expression signatures with prognostic significance in advanced classical Hodgkin lymphoma, European Association for Hematopathology, Upsala, Sweden, 2010

51.-Greaves WO, Sanchez-Espiridion B, Kunkalla K, Dave KS, Liang CS, Drakos E, Xiao L, Medeiros LJ, **Vega F**. Expression of the ATP-Binding Cassette Transporter MRP1 in Hodgkin/Reed-Sternberg Cells Is Associated with Lower Treatment Failure - Free Survival in Classical Hodgkin Lymphoma. *Lab Invest* 91:299A, 2011

52.-Sanchez-Espiridion B, Figueroa V, Montalban C, Guisado P, Rodriguez ME, Canales M, Alves FJ, **Vega F**, Younes A, Morente MM, Tomas JF, Piris MA, Garcia FJ. MicroRNAs in advanced classical Hodgkin lymphoma: signatures with prognostic significance. 11<sup>th</sup> International Meeting of Malignant Lymphomas, Lugano, Switzerland, 6/2011

- 53.-Qu C, Liu Y, Kunkalla K, Agarwal NK, Bourbon E, Pham KV, Ford RJ, Singh R, **Vega F**. Smoothed (SMO), a G-protein-coupled receptor (GPCR) activated by Hedgehog Ligands, modulates the activity levels of PI3K/AKT and NF- $\kappa$ B in Diffuse Large B-Cell Lymphoma. *Blood* 118A;1062, 2011. (abstract achievement award)
- 54.-Kunkalla K, Qu C, Liu Y, Singh R, **Vega F**. The t(14;18)(q32;q21) confers resistance to apoptosis-induced by smoothed inhibitors in diffuse large B-cell lymphoma that can be overcome by functional inhibition of BCL2. *Blood* 118A:1486-7,2011
- 55.-Bourbon E, Qu C, Liu Y, Kunkalla K, Liang CS, Leventaki V, Martinez F, Singh R, Agarwal NK, **Vega F**. Diffuse large B-cell lymphoma cells promote paracrine NF- $\kappa$ B activation in stromal cells and monocytes that is mediated by the hedgehog receptor smoothed (SMO). *Tumor Microenvironment Complexity*, AACR, Orlando, FL. 2011
- 56.-Alayed K, Kunkalla K, Qu C, Chakhachiro Z, Medeiros LJ, Singh R, **Vega F**. Glioma-associated oncogene homologue 3, a hedgehog transcription factor, contributes to the classical Hodgkin lymphoma microenvironment through the modulation of a subset of inflammatory chemokines and cytokines. *Mod Pathol* 25; 321A, 2012
- 57.-Leventaki L, Bourbon E, Qu C, Liu Y, kunkalla K, Nguyen, Bueso-Ramos C, Singh R, Agarwal N, **Vega F**. Diffuse large B-cell lymphoma cells promote paracrine activation of NF- $\kappa$ B pathway in tumor-associated stromal cells. *Mod Pathol* 25; 351A, 2012
- 58.-Leventaki L, Kunkalla K, Liu Y, Qu C, Agarwal N, Medeiros LJ, **Vega F**. Expression of Aldehyde dehydrogenase 1 (ALDH1) by tumor-infiltrating macrophages and dendritic cells in mature B cell lymphomas. *Symposia on Cancer Research 2012: Immunology and Inflammation in Cancer*. MD Anderson Cancer Center, Houston, 10/2012
- 59.-Qu C, Liu Y, Kunkalla K, Agarwal NK, **Vega F**. Smoothed activates NF- $\kappa$ B pathway through PKC $\beta$ /CARMA1/TRAF6 activation and TRAF6 stabilization in diffuse large B-cell lymphoma. *Blood* 120A,1298, 2012. (abstract achievement award)
- 60.-Agarwal NK, Qu C, Kunkalla K, Liu Y, **Vega F**. GLI1 Directly Regulates the Transcription of *AKT* Genes in Diffuse Large B-Cell Lymphoma. *Blood* 120A, 2399, 2012
- 61.-Qu C, Liu Y, Kunkalla K, Singh RR, Blonska M, Agarwal NK, Lin X, **Vega F**. Trimeric G protein-CARMA1 axis links smoothed to NF- $\kappa$ B activation in diffuse large B-cell lymphoma. *AACR Annual Meeting 2013 (Washington)*
- 62.-Leventaki L, Kunkalla K, Liu Y, Qu C, Agarwal N, Medeiros LJ, **Vega F**. Aldehyde dehydrogenase 1 (ALDH1) is a novel marker for tumor-associated macrophages and dendritic cells in mature B-cell lymphomas. *Mod Pathol* 26; 341A, 2013

- 63.-Agarwal NK, Kunkalla K, Hawke DH, Liu Y, Qu C, **Vega F**. Transcriptional Regulation Of *GLII*, Potential New Therapeutic Target For Diffuse Large B-Cell Lymphoma. *Blood* 122A:2513, 2013
- 64.-Agarwal NK, Kunkalla K, Hawke DH, Liu Y, Qu C, **Vega F**. The inhibitor of NF- $\kappa$ B kinase, IKK $\beta$ , regulates the stability of GLI1 transcription factor. AACR 2014; San Diego.
- 65.-Agarwal NK, Kunkalla K, Kin CH, **Vega F**. Smoothened, hedgehog transducer, contributes to activate NF- $\kappa$ B pathway in diffuse large B cell lymphoma through stabilization of the E3 ligase TRAF6. 15<sup>th</sup> Annual Zubrod Memorial Lecture and Cancer Research Poster Session, 2014
- 66.-Agarwal NK, Kunkalla K, Kin CH, **Vega F**. Smoothened, Hedgehog Transducer, Contributes to Activate NF-KB Pathway in Diffuse Large B Cell Lymphoma through Stabilization of TRAF6. 2014 ASH Meeting on Lymphoma Biology. Colorado Springs. August 2014
- 67.-Blieden C, Zhou X, Amini S, **Vega F**, Cho-Vega JH. Cutaneous plasmablastic plasma cell myeloma with MYC gene amplification after antilogous stem-cell transplantation. 51<sup>st</sup> Annual meeting of the American Society of Dermatopathology Chicago 2014
- 68.-Deutsch Yehuda E, Campuzano-Zuluaga G, Salzberg M, Gomez Arteaga A, Watts JM, Chapman-Fredricks JR, Ikpatt OF, **Vega F**, Swords RT. Clinical Utility of Morphological Evaluation of Day 14 Bone Marrow Biopsies in Acute Myeloid Leukemia Patients Undergoing Standard Induction Chemotherapy: Time to Change Practice? ASH 2014; San Francisco
- 69.-Agarwal NK, Kunkalla K, Kin CH, Lossos I, **Vega F** . The Inhibitor of NF-KB Kinase, IKK $\beta$  Regulates the Transcriptional Activity of GLI1 By Blocking Its Proteasomal Degradation ASH 2014; San Francisco
- 70.-Agarwal NK, Kunkalla K, Kin CH, **Vega F** The Inhibitor of NF- $\kappa$ B Kinase, IKK $\beta$ , Regulates the Stability of the Hedgehog Transcription Factor GLI1. USCAP 2015, Boston
- 71.-Zhou X; Rosenblatt J; **Vega F**; Cho-Vega JH. Selection and Rapid Proliferation of an Aggressive Transformed Mycosis Fungoides Clone in a Patient with Classic Mycosis Fungoides and Invasive Ductal Carcinoma Treated with Cytotoxic Chemotherapy. 23<sup>rd</sup> World congress of Dermatology 2015, Vancouver, Canada
- 72.-Moul A, Teomete U, Ikpatt F, Chapman J, **Vega F**. HHV8 positive multicentric Castleman disease in an HIV negative patient. 2015 Workshop of the Society for Hematopathology/European Association for Haematopathology. October 2015, Long Beach, California.



- 73.-Ruiz-Cordero R, Moul A, Ikpatt F, Chapman J, **Vega F**. Unusual Immunophenotypic variant of extracavitary/solid primary effusion lymphoma expressing IgM. 2015 Workshop of the Society for Hematopathology/European Association for Haematopathology. October 2015, Long Beach, California.
- 74.-Mackrides N, Maque-Acosta Y, Moul A, Campuzano-Zuluaga G, Natkunam Y, **Vega F**, Chapman J. EBV-Positive Follicular Lymphoma: Another Age-Related Lymphoma With Aggressive Clinical Features? USCAP 2016, Seattle
- 75.-Mackrides N, Maque-Acosta Y, Moul A, Campuzano-Zuluaga G, **Vega F**, Chapman J. CD20 Negative Nodular Lymphocyte Predominant Hodgkin Lymphoma. USCAP 2016, Seattle
- 76.-Tan Y, Moul E, Gupta A, White KJ, Fan YS, **Vega F**, Chapman J. HIV-Associated Diffuse Large B-Cell Lymphoma has a disproportionate rate of MYC / BCL6 double translocations. USCAP 2016, Seattle
- 77.-Moul A, Tan Y, Hijazi N, Sanchez S, Ikpatt OF, Chapman J, **Vega F**. Double-Hit Lymphomas with BCL6 / MYC Translocations are Clinicopathologically Different from Those with IgH-BCL2 / MYC and from Triple-Hit Lymphomas. USCAP 2016, Seattle
- 78.-Gajzer DC, Tjendra Y, Kunkalla K, Kim CH, Ikpatt OF, Chapman J, Sanchez S, Yang G, Kwon D, **Vega F**, Agarwal NK. Clinical and Biological Significance of GLI1 Expression in Diffuse Large B-Cell Lymphoma. USCAP 2016, Seattle
- 79.-Tjendra Y, Agarwal NK, Kunkalla K, Hwa KC, Gupta A, Chapman J, Torres A, Alderuccio J, Chen SX, Kwon D, **Vega F**. Significance of Expression of SMO in Diffuse Large B-Cell Lymphoma. USCAP 2016, Seattle
- 80.-Agarwal NK, Kim CH, Kunkalla K, Tang G, Tjendra Y, Liu Y, Qu C, **Vega F**. Smoothed (SMO) is an adaptor protein that recruits TRAF6 and phospholipase C gamma 2 (PLCg2) to enhance the activation of NF-kB signaling pathway. ASH 2015, Orlando, FL
- 81.-Azzam D, Henry Volmar C, Ali Hassan A, Perez A, Watts JM, Vargas F, Elias R, **Vega F**, Zelent A, Cogle C, Wahlestedt C, Swords RT. A patient-specific Ex vivo screening platform for personalized acute myeloid leukemia (AML) therapy. ASH 2015, Orlando, FL
- 82.-Fisher OG, Fernandez MP, **Vega F**, Dubovy SR. Intraocular extramedullary hematopoiesis: a clinicopathologic case series. Association for research in vision and ophthalmology. 2016 Annual Meeting Research: A vision of hope, Seattle Washington.

83.- Monge J, Vaupel C, Swords RT, Bradley T, Chapman R, Gunaratne N, Chapman JR, **Vega F**, Padron E, Vargas F, Hall J, Watts J. Mutational frequency in Hispanics vs non-hispanic patients with acute myeloid leukemia. ASH 2016, San Diego, California

84.- Watts J, Perez A, Vargas F, Fan YS, Weismman A, Rodriguez A, Lopez O, **Vega F**, Swords RT, Zelent A. The Novel Translocation t(4;15)(q31;q22) in AML Is Associated with a Proliferative Phenotype in the Presence of All-Trans Retinoic Acid (ATRA). ASH 2016, San Diego, California.

85.-Kerr DA, **Vega F**, Rosenberg AE. Fibroblastic reticular cell tumor (cytokeratin-positive interstitial reticulum cell tumor): A series of 6 cases with emphasis on extra-nodal presentations. USCAP 2017, San Antonio, Texas.

86.- Chapman J, **Vega F**, Moul A, Khanlari M, Poveda JC, Villada G, Ikpatt OF, Geyer JT, Orazi A. Myeloid neoplasms with morphologic and molecular features intermediate between PMF and CMML. USCAP 2017, San Antonio, Texas.

87.-Khanlari M, Sanchez S, Campuzano-Zuluaga G, Ramos JC, Cho-Vega JH, **Vega F**, Chapman J. Adult T-cell leukemia/lymphoma (ATLL): A mimicker of other most common T cell neoplasms. USCAP 2017, San Antonio, Texas.

88.- Haghefi A, Agarwal NK, Kunkalla K, Kim CH, Tjendra Y, Landgraf R, **Vega F**. Role of SMO in the activation of PI3k/AKT signaling in DLBCL. USCAP 2017, San Antonio, Texas.

## V. PROFESSIONAL

### **Funded Research**

#### **Active**

1-U01-CA-195568-01 (Lossos/Cerhan) 6/23/15 - 5/31/20  
NIH-NCI \$155,089  
Lymphoma Epidemiology of Outcomes (LEO) cohort study.  
Role: Co- Principal Investigator

#### **Pending**

1 R01 CA222918-01 (Vega/Landgraf)  
NIH-NCI  
Smoothed as a novel signal stabilization scaffold in doxorubicin resistance  
Role: Principal investigator  
Score: 20.0 percentile (pending council Review Oct 2017)

#### **Completed**

S1400141 (Lossos) 8/1/14 - 7/31/16  
SCCC \$50,000  
The Role of LMO2 in Double Strand DNA Repair and Lymphoma Pathogenesis  
Role: Co-Investigator

M1501625 (Vega) 6/1/15 - 5/31/16  
 Women's Cancer Association \$50,000  
 Effect of Combining SMO and BTK Inhibitors in a Human Diffuse Large B-Cell  
 Lymphoma Xenograft Model  
 Role: Principal Investigator

CTSI FY15Pilot Program Award (Vega) 6/1/2014 - 5/31/2015  
 Miami CTSI  
 IKK $\beta$  Regulates the Transcriptional Activity of GLI1 in Diffuse Large B-Cell  
 Lymphoma. \$50,000  
 Role: PI

K08CA14315101 Physician-Scientist, K08 award. Role of Sonic Hedgehog Signaling in  
 Diffuse Large B-Cell Lymphomas. Effort 75% (9 calendar months), NIH/NCI,  
 9/8/2010–8/31/2014, \$511,920  
 Role: Physician-Scientist

6235-11 (Vega) 10/1/2010–9/30/2014  
 Hedgehog Signaling a Therapeutic Target for Diffuse Large B-cell Lymphoma,  
 Translational Research Program, Effort 1% (0.12 calendar months), Leukemia and  
 Lymphoma Society, \$600,000  
 Role: PI

Cross-talking between Smoothed and NF-KB Signaling Pathway in Diffuse large B  
 Cell Lymphoma, Effort 6% (0.7 calendar months), MD Anderson Institutional Research  
 Fund Application, 7/2012–6/2014, \$50,000  
 Role: PI

Sonic Hedgehog Signaling Pathway as a Therapeutic Target in Diffuse Large B-cell  
 Lymphoma, Effort 10% (1.2 calendar months), MD Anderson Institutional Research  
 Fund Application, 7/2008–7/2010, \$50,000  
 Role: PI

Identification and Characterization of Tumor Initiating Cells in Chronic Lymphocytic  
 Leukemia, Effort 10% (1.2 calendar months), 03-07-02531, CLL Global Research  
 Foundation, 12/19/2007–12/28/2009, \$200,000  
 Role: PI

Hedgehog Signaling a Therapeutic Target for Diffuse Large B-Cell Lymphoma, Effort  
 1% (0.12 calendar), Developmental Research Award SPORE Lymphoma,  
 5/2010–5/2011, \$35,000  
 Role: PI

Role of Hedgehog Signaling in Diffuse Large B-Cell Lymphoma, Wendy Will Case  
 Cancer Foundation, 2009, \$35,000

Role: Mentor of Dr. Rajesh Singh (Instructor, Department of Hematopathology at MDACC)

Targeting Sonic Hedgehog Signaling to Overcome Chemoresistance in Diffuse Large B-Cell Lymphoma, Effort 1% (0.12 calendar months), Lauri Strauss Leukemia Foundation, New York, 4/1/2010–3/31/2011, \$25,000.

Role: Co-PI and mentor of Dr. Rajesh Singh (Instructor, Department of Hematopathology),

Array-Based Comparative Genomic Hybridization (aCGH) in splenic and nodal marginal zone lymphomas, MD Anderson Cancer Center Pathology Department Funds, 2005–2006, \$10,000

Role: PI and mentor of Dr. Vicky Leventaki (fellow, department of hematopathology at MDACC)

### **Protocols**

Principal Investigator, Preclinical study sponsored by NIH CTEP in collaboration with Genentech to assess the utility of Hedgehog inhibitor GDC-0449 in diffuse large B-cell lymphomas. 2009, Pre-clinical trial, NIH/NCI, 2009.

Principal Investigator, Preclinical study with Genentech to assess the utility of Hedgehog inhibitor G025698 in diffuse large B-cell lymphoma, Pre-clinical trial, Genentech, 2009  
Principal Investigator, Preclinical study with Genentech and Abbott Laboratories to assess the utility of the Hedgehog inhibitor G-025698 and the BCL-2 inhibitor ABT-737, in diffuse large B-cell lymphoma, Pre-clinical trial, Genentech and Abbott Labs, 2010.

Collaborator, Immunophenotypic and Molecular Characterization of HIV -Related Plasmablastic Lymphomas and Plasma Cell Myelomas/Plasmacytomas, LAB04-0457.

Collaborator, single-arm, international, multi-center trial of HuMax-CD20, a fully human monoclonal anti-CD20 antibody, in patients with Follicular Lymphoma who are refractory to rituximab as monotherapy or in combination with chemotherapy (protocol Hx-CD20-405).

Collaborator, Phase 2 Safety and Efficacy Study of Orally Administered PLX3397 in Adults with Relapsed or Refractory Hodgkin Lymphoma, 2010-0649, 2011–2013.

Collaborator, Phase 2 Multicenter, investigator initiated study of Oral Ruxolitinib Phosphate for the Treatment of Relapsed or Refractory Diffuse Large B-Cell and Peripheral T-cell Non-Hodgkin Lymphoma, 2011-0856, 2011-2013.

Collaborator, Phase 3 Open-Label Randomized Study to Compare the Efficacy and Safety of Rituximab Plus Lenalidomide (CC-5013) Versus Rituximab Plus Chemotherapy Followed by Rituximab in Subjects with Previously Untreated Follicular Lymphoma, 2011-0805, 2011

Collaborator, Phase 2 Study of the HSP90 Inhibitor AUY922 in Patients with Relapsed and Refractory Lymphoma, 2011-0467, 2011

Collaborator, Phase 2 Study of Brentuximab Vedotin (SGN -35) in Relapsed or Refractory CD30-positive Non-Hodgkin Lymphoma (NHL), 2011-0442, 2011

Collaborator, Phase III, multicenter, open-label, randomized trial comparing the efficacy of GA101 in combination with CHOP versus rituximab and CHOP in previously untreated patients with CD20-positive DLBCL. 2012-1155

Collaborator, SPI-ZV-11-301, phase III, open label, multicenter, randomized study of sequential zevalin (ibritumobab tiuxetan) versus observation in patients at least 60 years of age with newly Diagnosed diffuse large B-cell lymphoma in PET-negative complete remission after R-CHOP or R-CHOP-like therapy 2012-0504

Collaborator, A randomize, double blind, placebo-controlled, multicenter phase III study of RAD001 adjuvant therapy in poor risk patients with DLBCL of RAD001 versus matching placebo after patients have achieved complete response with first line rituximab chemotherapy 2009-0973

Collaborator, Phase II study of BKM120 I patients with relapsed and refractory diffuse large B cell lymphoma, mantle cell lymphoma and follicular lymphoma.

### **Editorial Responsibilities**

#### **Editor/Service on Editorial Board(s)**

Chief Editor, Internet Journal of Pathology, 2006–2008

#### **Member of Editorial Review Board**

Member Editorial Board of Human Pathology: Case Reports since 2016

Scientific Advisor of the Lymphoma Research Foundation (LRF) since 2016

Member Patient Publications Medical Review Committee of the Lymphoma Research Foundation (LRF) 2015

Editor Board Member, Annals of Diagnostic Pathology, 2012-present

Editor Board Member, International Journal of Clinical and Experimental Pathology, 2010–present

Associate Editor, American Journal of Blood Research, 2011-present

#### **Journal Reviewer** (since 2006 until present)

Patologia. Archives of Pathology & Laboratory Medicine, Journal of Cutaneous Pathology, Journal of Cellular and Molecular Medicine, Advances in Diagnostic Pathology, Cancer, Cancer Science, Haematologica, Internet Journal of Cancer, Lab Investigation, Leukemia Research, Modern Pathology, Advances in Anatomic Pathology,

Blood, Cancer Research, Cleveland Clinic Journal of Medicine, Molecular Cancer Research, Pediatric Blood and Cancer, Yonsei Medical Journal, Histology and Histopathology, Neoplasia, Cancer Biomarkers, Diagnostic Pathology. Annals of Surgical Oncology. Oncotarget.

### **Grant Reviewer**

Grant Reviewer for Bloodwise (previously Leukemia Lymphoma Research) Clinical Research Training Fellowship. London, UK, 2016

Reviewer for the Mentoring and Career Development K12 award. CTSI University of Miami, 2015.

Reviewer for the Paracelsus Medical University (PMU) Research Fund (FFF) of the PMU Salzburg. Germany, 2014

Reviewer for NCI Special Emphasis Panel, Training and Career Development, 2013

Reviewer for the MDACC Institutional Grant Review Committee, MD Anderson, Member, 2009–2013

Reviewer for the Career Development Awards, NIH Scientific Review Group, 2012-2013

Grant reviewer for the Le Comité d'évaluation du programme Emergence 2012 from the French National Research Agency (ANR) (France), 2012

Reviewer for MDACC Sister Institution Network Foundation, Grant Reviewer, 2012

Grant reviewer for the chronic lymphocytic leukemia (CLL) Global Research Foundation, 2010

Grant reviewer for the Medical Research Council, London (UK), 2010

### **Other Review Activities**

Reviewer of oral and poster abstracts, section of Non-Hodgkin Lymphoma: Biology, excluding Therapy. American Society of Hematology (ASH), 2017

Reviewer of oral and poster abstracts, section of Non-Hodgkin Lymphoma: Biology, excluding Therapy. American Society of Hematology (ASH), 2015

Reviewer of the Hematopathology abstracts for the United States and Canadian Academy of Pathology (USCAP), 2012, 2013 and 2014.

Judge for the poster presentation of the Experimental Therapeutics Academic Program's student retreat, University of Texas, MD Anderson Cancer Center, 2012

### **Professional and Honorary Organizations:**

Member, Spanish Society of Pathologists, Spain	1994–Present
Member, American & Canadian Academy of Pathology	1996–Present
Member, College of American Pathologists	2003–Present

Member, American Society of Hematology	2006–Present
Member, Society of Hematopathology/European Association for Haematopathology	2006-Present
Member, American Association for Cancer Research	2008–Present
Member, International Society of Stem Cell Research	2007–2010
Member, Texas Society of Pathologists, Houston, TX	2003–2013

### **Honors and Awards:**

Scholarship from the Government of Navarra, Pamplona, Spain, 1996  
"Manual Cabaleiro Goas" Award, Official School of Medical Doctors of Orense, Best Scientific Work 1998

Award for Best Platform Presentation, XX Meeting of the Galician Society of Gastroenterology, 1999

Postgraduate Grant from the Fundacion Pedro Barrie de la Maza La Coruna, Spain, 1999-2001

The Janice Davis Singletary Award for Clinical Fellowship in Lymphoma, MD Anderson Cancer Center, 2006

Mentor of Keith Newton, undergraduate student, awarded with the Annual Research Student Award of the Association of Genetic Technologists, 2008

Mentor of Raj Davuluri, pre-medical student, 1st Place of DeBakey Premedical School Research Award, Baylor College of Medicine, Houston, Texas, 2009

Mentor of Vicky Leventaki, fellow hematopathology, fellow research grant (funds from the department of pathology at MDACC) "Immunophenotypic characterization of aldehyde dehydrogenase 1 (ALDH1) positive stromal dendritic cells in malignant lymphoma" 2012.

Mentor of Changju Qu, postdoctoral fellow in my laboratory, awarded with the Abstract achievement award, American Society of Hematology (ASH) meeting, San Diego, 2011.

Mentor of Changju Qu, postdoctoral fellow in my laboratory awarded with the Abstract achievement award, American Society of Hematology (ASH) meeting, Atlanta, 2012.

### **Other Professional Activities:**

#### **Organization of Conferences/Courses**

Co-chair of the International Workshop of the Society of Hematopathology 2013. Progress in Acute Myeloid Leukemia, Myelodysplastic Syndromes and Acute Lymphoblastic leukemia: Classification and molecular Pathogenesis. Houston, October 24-26, 2013

2011 American Society of Clinical Pathology/WASPaLM XXVI World Congress, Co-director of the educational hematopathology course, Las Vegas, NV, Co-director, 10/2011

**Course/session moderator**

57<sup>th</sup> Annual Meeting of the American Society of Hematology (ASH), Moderator of the Oral Session entitled "Non-Hodgkin's Lymphoma-Biology, excluding therapy: Clinical implications of genomic studies of B cell lymphoma, Moderator, 12/2015

Moderator of the Hematopathology session in the United States and Canadian Academy of Pathology (USCAP). Baltimore, 2013

Chair of the session "Myeloid neoplasms with PDGFR-A, -B and FGFR1 abnormalities. International Workshop of the Society of Hematopathology 2013. Progress in Acute Myeloid Leukemia, Myelodysplastic Syndromes and Acute Lymphoblastic leukemia: Classification and molecular Pathogenesis. Houston, October 24-26, 2013

Co-director and speaker, Molecular Genetics/immunophenotype in new entities of the 2008 WHO Classification of Hematopoietic Neoplasms. American Society of Clinical Pathology Annual Meeting, Las Vegas NV, 10/2011

51st Annual Meeting of the American Society of Hematology (ASH), Moderator of the Oral Session entitled "Non-Hodgkin's Lymphoma-Biology, excluding therapy: Diffuse large B-cell lymphoma: Biology and Prognosis, Moderator, 12/2009

**Invited Presentations Courses and from Other Institutions**

SMO contributes to resistance to doxorubicin in diffuse large B cell lymphoma. Fox Chase Cancer Center, Philadelphia 6/2017

Pathobiology of chronic lymphocytic leukemia/small lymphocytic lymphoma. Jornadas Academicas Conmemoracion 65 años departamento de patologia. Bogota, Colombia 2/2017.

Extranodal DLBCL of the head and neck. Advances in Diagnosis. 41<sup>th</sup> annual Review and Practical Advances in Pathology. Miami, FL. 2/2017

Role of SMO in the biology of diffuse large B cell lymphoma. Fox Chase Cancer Center, Philadelphia 11/2016

Role of SMO in the biology of diffuse large B cell lymphoma. 18th meeting of the European Association for Haematopathology, Basel, Switzerland, 9/2016

Cross Talk between Hedgehog and NF-kB Pathways: A Novel Finding in the



Pathobiology of Diffuse Large B Cell Lymphoma with Potential Therapeutic Implications. Pathology Ground Rounds, Karolinska Institute (Stockholm, Sweden) 6/2016

Cross Talk between Hedgehog and NF-kB Pathways: A Novel Finding in the Pathobiology of Diffuse Large B Cell Lymphoma with Potential Therapeutic Implications. LVII National Congress of the Spanish Society of Hematology (SEHH) and XXXI National Congress of the Spanish Society of Thrombosis and Hemostasis. Valencia (Spain). 10/2015

Understanding the biology lymphoma aid patient management? Science of lymphoma and associated receptors. Memorial Regional Hospital, Hollywood, FL, 9/2015

Role of Hedgehog signaling in the pathobiology of diffuse large B-cell lymphoma. Department of Pathology, Memorial Sloan Kettering, New York. 8/2015.

Role of Hedgehog signaling in the pathobiology of diffuse large B-cell lymphoma. Department of Pathology, Ann Arbor, University of Michigan. 5/2015.

Peripheral T cell lymphomas: A diagnostic approach. Advances in Diagnosis. 39<sup>th</sup> annual Review and Practical Advances in Pathology. Miami, FL. 2/2015

Understanding primary cutaneous T-cell lymphomas (non-mycosis fungoides). Santiago de Chile, Chile 10/2014.

Pathobiology of chronic lymphocytic leukemia/small lymphocytic lymphoma. Santiago de Chile, Chile 10/2014.

Diffuse large B cell lymphomas: Advances in Diagnosis. 38<sup>th</sup> annual Review and Practical Advances in Pathology. Miami, FL. 2/2014

Role of Hedgehog signaling in the biology of diffuse large B-cell lymphoma. Department of Pathology, University of Miami. 3/2013.

Role of Hedgehog signaling in the biology of diffuse large B-cell lymphoma. Department of Pathology, City of Hope, Duarte, California 2/2013.

Role of Hedgehog signaling in the biology of diffuse large B-cell lymphoma. Department of Pathology, University of North Carolina Chapel Hill, 8/2012.

Biomarkers detected by Immunohistochemistry in diffuse large B-cell lymphoma. Biomarker Driven Trial for Lymphoma Meeting. Chicago, 6/2012.

Understanding Cutaneous Lymphomas. Pathology Ground Rounds. Nebraska University, Omaha 5/2012.

Hedgehog signaling pathway: a potential therapeutic target for diffuse large B-cell lymphoma. Ground Rounds, Department of Pathology, University of Miami. 2/2012.

Understanding Cutaneous Lymphomas-Different Entities and Clinical Outcomes. 2012 Pan Pacific Lymphoma Conference. Lahaina, Maui, Hawaii, 7/2012.

Understanding Cutaneous Lymphomas-Different Entities and Clinical Outcomes. 2012 Neoplastic Hematopathology Update. Palm Beach, Florida, 11/2012.

Primary cutaneous Rosai-Dorfman Disease. 2012 Neoplastic Hematopathology Update. Palm Beach, Florida, 11/2012.

Hedgehog signaling pathway: a potential therapeutic target for malignant lymphomas, Ground Rounds, Seoul National University Cancer Center, Seoul, South Korea, 4/2011.

Hedgehog signaling pathway: a potential therapeutic target for malignant lymphomas, Surgical Pathology Update, Daegu, South Korea, 4/2011.

Hedgehog signaling pathway: a potential therapeutic target for malignant lymphomas, Asan Medical Center, Seoul, South Korea, 4/2011.

Lymphoma and Hematopoietic neoplasms involving skin, Surgical Pathology Update, Daegu, South Korea, 4/2011.

Hedgehog signaling in lymphomas, Pathology Ground Rounds, Cleveland Clinic, Cleveland, OH, 11/2010.

Cutaneous lymphoproliferative disorders. Course of Neoplastic Hematopathology Update: New Insights into Old Questions, Hollywood, FL, 11/2010

Speaker, Blastic plasmacytoid dendritic cell tumors. Neoplastic Hematopathology Update: New Insights into Old Questions, Hollywood, FL, 11/2010.

Diffuse large B-cell lymphoma, a diagnostic approach, The XII Annual Conference of Syrian Society of Pathology, Damascus, Syria, 4/2010.

New insights in the biology of diffuse large B-cell lymphoma, The XII Annual Conference of Syrian Society of Pathology, Damascus, Syria, 4/2010.

Diffuse large B-cell lymphoma in the 2008 WHO classification, Update course of Surgical Pathology, Sao Paulo, Brazil, 4/2009.

T-cell lymphomas in the 2008 WHO classification, Update course of Surgical Pathology, Sao Paulo, Brazil, 4/2009.

Aggressive B-cell lymphomas, Update Course of Surgical Pathology, Viña del Mar, Chile, 4/2008.

Anaplastic Large Cell Lymphoma, Update Course of Surgical Pathology, Viña del Mar, Chile, 4/2008.

Aggressive B-cell lymphomas, IV National Congress of Hematology and Oncology, Antigua, Guatemala, 8/2008.

Anaplastic large cell lymphomas, IV National Congress of Hematology and Oncology, Antigua, Guatemala, 8/2008.

Short Course: Bone Marrow Pathology, 3rd Intercontinental Congress of Pathology, Barcelona, Spain, 5/2008.

Anaplastic large cell lymphomas (ALK-positive and ALK negative), XXII Meeting of the Spanish Society of Pathology, Palma de Mallorca, Spain, 6/2006.

T- and NK-cell lymphomas, Workshop, Society of Hematopathology/European Association of Hematopathology, Houston, TX, 10/2005.

Aplicaciones de la patologia molecular en el estudio del cancer, Pasado, Presente y Futuro, Jornadas de Asma Y EPOC, Cristal-Pinor Hospital, Orense, Spain, 5/2004.

Celulas fibroblasticas del ganglio linfatico. Reunion Nacional del Club de Linfomas, Hospital Juan Canalejo, La Coruna, Spain, 5/2004.

GeneScan and Real Time PCR, I Course of Molecular Pathology, Universidad de Navarra, Pamplona, Spain, 6/1/2002.

Probemática del diagnóstico y clasificación anatomopatológico de la Fibrosis Pulmonar Idiopática (FPI). Mesa Redonda en Neumopatías Intersticiales y de Origen Ocupacional, Hospital do Meixoeiro, Vigo, Spain, 5/1999.

Utilidad de la inmunohistoquímica y biología molecular en tejido linfático necrótico, IX Course of Surgical Pathology, San Sebastian Hospital, San Sebastian, Spain, 10/1997.

### **Other Presentations at State and Local Conferences**

Molecular Hematopathology I Medical Oncology Core Curriculum, University of Miami/Sylvester Cancer Center, Miami, 9, 2015

Molecular Hematopathology II Medical Oncology Core Curriculum, University of Miami/Sylvester Cancer Center, Miami, 9, 2015

Understanding primary cutaneous T-cell lymphomas (non-mycosis fungoides). Hematology/Internal Medicine Grand Rounds. University of Miami/Sylvester Cancer Center, Miami, 4, 2015

The inhibitor of NF- $\kappa$ B kinase, IKK $\beta$ , regulates the transcriptional activity of GLI1 by blocking its proteosomal degradation. Epigenetics and Cancer Colloquium Sylvester Comprehensive Cancer Center, Miami, FL, 8, 2014

Understanding the biology lymphoma aid patient management? Science of lymphoma and associated receptors. Miami, FL, 5/2014

IKK $\beta$  stabilizes GLI1 and contributes to the activation of hedgehog signaling pathway. Retreat Meeting Sylvester Comprehensive Cancer Center, University of Miami, FL, 3/2014

Role of Hedgehog Signaling in Diffuse Large B-cell Lymphoma. Research Seminar, Hematopoietic malignancy group. Sylvester Cancer Center/University of Miami, FL, 2/2014

Role of Hedgehog Signaling in Diffuse Large B-cell Lymphoma. Research Seminar, MOET program meeting. University of Miami, FL, 1/2014

Role of SMO and GLI1 in diffuse large B cell lymphoma. Leukemia Research Seminar, University of Texas MD Anderson Cancer Center, Houston, TX, 6/2013

Diffuse large B-cell lymphoma, updates in new therapeutic approaches, Pathology Grand Rounds, University of Texas Medical Branch, Galveston, TX, 2012

Update in hedgehog signaling in diffuse large B-cell lymphoma, Leukemia Research Seminar, University of Texas MD Anderson Cancer Center, Houston, TX, 4/2012

Hedgehog signaling pathway: a potential therapeutic target for malignant lymphomas, Experimental Therapeutics Research Seminar, University of Texas MD Anderson Cancer Center, Houston, TX, 9/2012

Hedgehog signaling pathway: a potential therapeutic target for malignant lymphomas, Cytogenetic Research Seminar, University of Texas MD Anderson Cancer Center, Houston, TX, 4/2011

Hedgehog signaling pathway: A new therapeutic approach for lymphomas, Leukemia Research Seminar, University of Texas, 9/2010

Role of sonic hedgehog signaling in lymphomas, Cytogenetic Research Seminar, University of Texas MD Anderson Cancer Center, Houston, TX, 3/19/2009

Role of sonic hedgehog signaling in lymphomas and leukemias, Leukemia Research

Seminar, University of Texas MD Anderson Cancer Center, Houston, TX, 3/25/2009  
Sonic hedgehog signaling is activated by NPM/ALK in ALK-positive anaplastic large cell lymphomas, MD Anderson Cancer Center, Houston, TX, 9/2008

Cancer Stem Cells, Pathology Ground Rounds, MD Anderson Cancer Center, Houston, TX, 3/2008

A molecular approach to monitoring disease progression in mycosis fungoides, The University of Texas MD Anderson Cancer Center, Houston, TX, 4/2001

A novel 4-color PCR assay to assess T-cell receptor gamma gene rearrangements in lymphoproliferative lesions, The University of Texas MD Anderson Cancer Center, Houston, TX, 4/2001

## **VI. TEACHING**

### **Teaching Awards Received:**

Best teacher department of pathology, University Clinic of Navarra, years 1995-1997

### **Teaching Specialization:**

#### **Training Programs**

Speaker, Principles in Neoplastic Hematology Lecture Series MD Anderson Cancer Center 2006–2008

Speaker, Cytogenetics Seminars, MD Anderson Cancer Center, 2006–2010

Speaker, Lymphoma Seminars, MD Anderson Cancer Center, 2006

Speaker, Current Topics in Human and Molecular Genetics Seminars, MD Anderson Cancer Center 2013.

### **Thesis and Dissertation Advising/Post-doctoral Student Supervision:**

Since 2006- Direct supervision of undergraduate, graduate and medical students; postdoctoral fellows, research scientist, instructors and technicians in my research laboratory.

Undergraduate students: 10 (Keith Newton, Yogesh Davuluri, Christine Cain, Elsa Ramirez, Noelia Baez Rivera, Cynthia Liang, Kunal S Dave, Estelle Bourbon, Gloria Yang, Alexa Constantakos)

Medical Student: 1 (Yogesh Davuluri)

Graduate students: 2 (Beatriz Sanchez-Espiridon, Changju Qu)

Postdoctoral fellows: 7 (Rajesh Singh, Changju Qu, Chae H Kim, Christine Militto, Ji Eun Kim, Kim Chae Hwa, Youley Tjendra)

Research Scientist: 1 (Nitin Agarwal)

Instructor: 1 (Rajesh Singh)

Supervisor of clinical hematopathology fellows, MD Anderson Cancer Center 7/2006–8-2013 (4 to 6 fellows per year since 2006)

Supervisor of hematopathology fellows and Pathology residents, University of Miami, 9/2013-current (2 fellows per year; and 2 rotating pathology residents per month)

Supervisor of hematopathology visitors, University of Miami: 5 international visitors since 2013: Sandra Sanchez (Colombia), Jose Luis Solorzano (Spain), Hernan Quiceno (Spain), Ivan Gonzalez (Dominican Republic), Kumar Ganesh (India)

### **Teaching Outside of Current Institution**

#### **Previous Formal Teaching**

Design of a web site with Pathologic Case presentations  
[www.cristalp.es/docencia/seccion1.htm](http://www.cristalp.es/docencia/seccion1.htm), Complejo Hospitalario de Orense,  
3/1998–3/1999

Teacher of practical and theoretical classes, anatomic pathology, University of Navarra (Pamplona Spain) 1994 – 1997.

Interactive Teaching of Pathology by Computer, Interpat Project, University Clinic of Navarra (Pamplona, Spain) 1994 – 1997.

## **VII. SERVICE**

### **University Committee and Administrative Responsibilities:**

Member of the Medical School Faculty Council. University of Miami, 2016-present

Member of the IRB committee of the University of Miami/Sylvester Comprehensive Cancer Center, 2015-present

Member of the Quality Assessment committee of the Department of Pathology, University of Miami, 2015-present

Member of the Research Committee of the Department of Pathology, University of Miami, 2015-present

Member of the Cancer Biology Graduate Program, University of Miami, 2014-present

Director of Division of Hematopathology  
University of Miami/Sylvester Comprehensive Cancer Center  
September 2013 – Present

Member of the Hematologic Malignancy Program, University of Miami/Sylvester Cancer Center, 2013-present

Member of the Leukemia/lymphoma faculty recruit committee, University of Miami/Sylvester Cancer Center, 2013-2014

Faculty, Graduate School of Biomedical Sciences, The University of Texas MD Anderson Cancer Center, until 8/2013

Member of the Human and Molecular Genetics Program, 2012-8/2013 The University of Texas MD Anderson Cancer Center

Member of the Experimental Therapeutics Program, 2012-8/2013 The University of Texas MD Anderson Cancer Center

Lymphoma Section Head, Department of Hematopathology, Path/Lab Medicine  
The University of Texas MD Anderson Cancer Center  
January 2011 – August 2013

MD Anderson Cancer Center, Institutional Grant Review Committee (IRG), Member, 2009–2013.

MD Anderson Cancer Center, Institutional Large Cell Lymphoma Group, Member, 2011-2013.

MD Anderson Cancer Center, Institutional T-cell lymphoma Group, Member, 2011-2013.

MD Anderson Cancer Center, Institutional Hodgkin lymphoma Group, Member, 2011-2013.

MD Anderson Cancer Center, Institutional Credentialing Committee - Alternate Member, 8/2011-2013.

Member of advisory committee of graduate students, University of Texas, 2012-2013

Strike Force, Pathology Department, MD Anderson Cancer Center, Member, 2007–2009.

Medical and Surgical Academy of Orense (Spain), Member, 1/1998–11/1999.  
Research Commission of Complejo Hospitalario de Orense (Spain), Member, 1/1998–11/1999.

Commission of Tissue and Mortality of Complejo Hospitalario de Orense (Spain), Member, 1/1998–11/1999.