

CURRICULUM VITAE

Maria Virginia Pascual, M.D.

Curriculum Vitae

M. Virginia Pascual, MD

NAME: Maria Virginia Pascual

ADDRESS: Baylor Institute for Immunology Research
3434 Live Oak
Dallas, TX 75204

PHONE#: (214) 820-9981

EDUCATION:

Undergraduate: 1974-1975: B.S.
Centro de Estudios Universitarios
San Pablo. Madrid.

Graduate: 1975-1981: M.D.
Facultad de Medicina.
Universidad Complutense.
Madrid.

POSTGRADUATE EXPERIENCE:

1982-86	Residency in Pediatrics, Hospital “12 de Octubre”, U.Complutense, Madrid.
1982-85	General Pediatrics.
1985-86	Pediatric Gastroenterology.
1987	Foreign Medical Graduate Examination in the Medical Sciences
1987-90	Postdoctoral Fellow. Dept. of Microbiology, UT Southwestern Medical Center
1990-1995	Research Assistant Professor. Dept. of Microbiology UTSWMC
04/92-12/95	Fellow in Pediatric Rheumatology. Dept. of Pediatrics, UTSWMC
01/94-02/94	Pediatric Residency. Children’s Medical Center, Dallas
09/95-2002	Assistant Professor of Pediatrics and Microbiology, UTSWMC
1998-2004	Director, Pediatric Rheumatology Division, UTSWMC
1999-2004	Assistant Investigator. Baylor Institute for Immunology Research, Dallas, TX.
2002-2004	Associate Professor of Pediatrics, UTSWMC
2004-Present	Associate Investigator, BIIR and Clinical Associate Professor of Pediatrics, UTSWMC

AWARDS:

1995: Senior Rheumatology Scholar Award (American College of Rheumatology)

BOARD CERTIFICATIONS: Pediatrics (1997)
Pediatric Rheumatology (1998)

NATIONAL COMMITTEES

NIH Arthritis, Musculoskeletal and Skin Diseases Special Grant Review Committee, Council AMS 1 (2004-2008)

Arthritis Foundation Scientific Review Committee (2002-2004)

SUPPORT:

Past:

Arthritis Foundation Investigatorship (1992-1995)

Lupus Foundation of America: “Characterization of peripheral blood B cells in pediatric SLE”. **V. Pascual P.I.** 10/99 through 9/01. Amount \$ 30,000

NIH 1-R29-AI42862-01. “Characterization of novel human germinal center genes”. **V. Pascual P.I.** 05/98 through 04/03. Total costs: \$545,000

RFP N01-AI-05412: “Clinical Trials and Clinical Markers for Immunological Diseases”. **V. Pascual P.I.** 09/01/00 through 08/31/04. Total costs: \$679,119

NIH R01 AR46589-01. “Ectopic GC reaction in SLE”. **V. Pascual P.I.** 09/01/00 through 08/31/05. Total costs: \$1,398,000

NIH R21 AIO52080-01 “Dysregulation of Type I Interferon in Human SLE” M.V. Pascual, (Co-PI), L. Bennett (PI) 04/01/04 through 03/31/06

Present:

DANA Foundation: “Immature neutrophils as effector cells in SLE”. 03/03 through 02/06. **V. Pascual P.I.** Total costs: \$300,000

NIH R01 AR050770-01: “Use of Microarrays to Understand Systemic Arthritis”. PI: **M. Virginia Pascual, MD.** 09/2003 through 08/2007. Total costs: \$1,500,000

Alliance for Lupus Research: “New predictors of SLE disease activity”. P.I. Virginia Pascual, M.D. 03/2004 through 02/2006. Total costs: \$500,000. This grant has been renewed until February 2008. Total costs (2006-2008): \$1,000,000.

NIH 1U19AI057234. Center for Human Immunology. P.I. Jacques Banchemereau. **Educational Core P.I. Virginia Pascual.** Total costs of the core : \$450,000

PUBLICATIONS

1. Ruiz Contreras J, **Pascual Ruiz V**, Fernandez Epifanio JL, Garcia Hernandez G, Gomez-Acebo Jerico F, Scarpellini Vera A, Fuertes Ortiz A. Extrarespiratory manifestations of Mycoplasma pneumoniae infection. *An Esp Pediatr*;21(2):141-6, 1984
2. Ruiz Contreras V, **Pascual Ruiz V**. Mycoplasma pneumoniae infection in childhood respiratory pathology. Respiratory, extrarespiratory manifestations and immunological findings. A 2-year study. *An Esp Pediatr*; 24(1):15-25, 1986
3. Regueiro JR, Arnaiz A, Ortiz M, Martin JM, Vicario JL, **Pascual Ruiz V**, Guerra F, Alcami J, Lopez M, Manzanares J: Familial defect of CD3 expression by T cells associated with rare gut epithelial cell autoantibodies. *Lancet*, 1: 1274-1275, 1986
4. Van der Heijden R, Bunschoten H, **Pascual V**, Uytdehaag FGCM, Osterhaus ADME, CapraJD. Nucleotide sequence of a human monoclonal Ab2 specific for a Rabies virus neutralizing

- monoclonal Ab1 reveals somatic variability suggestive of an antigen driven immune response. *J Immunol.* 144: 2383-2390, 1990.
5. **Pascual V**, Randen I, Thompson KM, Sioud M, Forre O, Natvig J, Capra JD. The complete nucleotide sequences of the heavy chain variable regions of six monospecific Rheumatoid Factors derived from Epstein-Barr virus transformed B cells isolated from the synovial tissue of patients with Rheumatoid Arthritis: Further evidence that some autoantibodies are unmutated copies of germ line genes. *J Clin Invest.* 86: 1320-1328. 1990.
 6. Natvig, J., Randen I, Thompson K, , Steinitz M, Forre O., Mageed, R., Jefferis, R., Carson, D., Tighe, H., **Pascual V**, Victor K, Capra JD. Probing the human RF gene repertoire in rheumatoid arthritis by hybridoma clones. *Clin Exp Rheum.* 8:75-80, 1990.
 7. **Pascual V**, Victor K, Lelsz D, Spellerberg MB, Hamblin TJ, Capra JD, Stevenson FK. Nucleotide sequence analysis of the variable regions of two IgM cold agglutinins: Evidence that the VH4-21 gene segment is responsible for the major cross-reactive idiotype. *J Immunol.* 146: 4385-4391, 1991.
 8. Thompson K, Sutherland J, Barden G, Melamed MD, Randen I, Natvig JB, **Pascual V**, Capra JD, Stevenson FK. Human monoclonal antibodies against red blood group antigens preferentially express a VH4-21 variable region gene-associated epitope found on cold agglutinins of I/I specificity. *Scand J Immunol.*, 34:509-518, 1991.
 9. **Pascual V**, Victor K, Randen I, Thompson K, Natvig JB, Capra JD. IgM rheumatoid factors in patients with rheumatoid arthritis derive from a diverse array of germ line immunoglobulin genes and display little evidence of somatic variation. *J Rheuma.*, 19:50-53, 1992.
 10. Kelly PJ, **Pascual V**, Capra JD, Lipsky PE. Anti-CD3 stimulated T cells induce immunoglobulin isotype switching in individual human peripheral blood lymphocytes. *J Immunol.*, 148:1294, 1992.
 11. Victor K, **Pascual V**, Williams CL, Lennon VA, Capra JD. Human monoclonal striational autoantibodies isolated from thymic B-lymphocytes of patients with myasthenia gravis use V_H and V_L gene segments associated with the autoimmune repertoire. *Eur J Immunol.* 22:2231-2236, 1992.
 12. **Pascual, V.**, Victor, K., Spellerberg, M., Stevenson, F., Capra, J. D. VH restriction among human cold agglutinins: the vh4-21 gene segment is required to encode anti-I and anti-i specificities. *J Immunol.* 149:2337, 1992.
 13. **Pascual, V.**, Victor, K., Randen, I., Thompson, K., Fu, S-M., Forre, O., Natvig, J., and J.D. Capra. Nucleotide sequence analysis of rheumatoid factors and polyreactive antibodies derived from patients with rheumatoid arthritis reveals diverse use of V_H and V_L gene segments and extensive variability in CDR3. *Scand J Immunol.* 36:349-362, 1992.
 14. Victor, K., **Pascual, V.**, Levfert, A. K., and J. D. Capra. Human anti-acetylcholine antibodies use variable gene segments analogous to those used in autoantibodies of various specificities. *Mol Immunol.* 29:1501-1506, 1992.
 15. Randen, I., Brown, D., Thompson, K., Hughes-Jones, N., **Pascual, V.**, Victor, K., Capra, J. D., Forre, O., Natvig, J. Clonally related IgM rheumatoid factors undergo affinity maturation in the

- rheumatoid synovial tissue. *J Immunol*. 148:3296, 1992.
16. Randen, I., **Pascual, V.**, Victor, K., Thompson, K., Forre, O., Capra, J. D., and J. B. Natvig. Synovial IgG rheumatoid factors show evidence of an antigen driven immune response and a shift in the V gene repertoire compared to IgM rheumatoid factors. *Eur J Immunol*. 23:1220, 1993.
 17. Victor, K., **Pascual, V.**, Stizel, A. E., Tsokos, G. C., Capra, J. D., and R. E. Spitzer. Nucleotide sequence of a human autoantibody to the alternative pathway C3/C5 convertase (C3NeF). *Hybridoma*, 12:231, 1993.
 18. Randen, I., Potter, K. N., Li, Y., Thompson, K., **Pascual, V.**, Forre, O., Natvig, J. B., and J. D. Capra. Protein A binding to human Ig VHIII variable regions maps to CDR2. *Eur J Immunol*. 23:2682, 1993.
 19. Vazquez-Abad, D., **Pascual, V.**, Zanetti, M., and Rothfield, N. F. Analysis of human antitopoisomerase-I idiotypes. *J Clin Invest*. 92:1302, 1993.
 20. **Pascual, V.**, Verkruyse, L., and J. D. Capra. Analysis of Ig H chain gene segment utilization in human fetal liver: revisiting the "Proximity Utilization Hypothesis". *J Immunol*. 151:4164, 1993.
 21. Potter, K. N., Li, Y., **Pascual, V.**, Williams, R., Spellerberg, M., Stevenson, F. K., and J. D. Capra. Molecular characterization of a major cross-reactive idiotope on human immunoglobulins utilizing the VH4-21 gene segment. *J Exp Med*. 178:1419, 1993.
 22. **Pascual, V.**, Cha, S., Gershwin, M. E., Capra, J. D., and Leung, P. S. C. Nucleotide sequence analysis of natural and combinatorial anti-PDCE2 antibodies in patients with primary biliary cirrhosis. Recapitulating immune selection with molecular biology. *J Immunol*. 152:2577, 1994.
 23. **Pascual, V.**, Liu, Y.-J., Magalski, A., Boutellier, O., Banchereau, J., and J.D. Capra. Analysis of somatic mutation in five subsets of human tonsil. *J Exp Med*. 180:329,1994.
 24. Kristiansen, S., **Pascual, V.**, and P. E. Lipski. Staphylococcal protein A induces biased production of Ig by VH3 expressing lymphocytes. *J Immunol*.153:2974, 1994.
 25. Andris, J., Abraham, S., **Pascual, V.**, Pistillo, M., Mantero, S., Ferrara, G., and J. D. Capra. The human antibody repertoire: Heavy and light chain variable region gene usage in seven antibodies specific for human class I and class II alloantigens. *Mol Immunol*., 32: 1105-1122, 1995.
 26. Widhopf, G., **Pascual, V.**, Baer, R., and J. D. Capra. Characterization and genomic mapping of a novel leader peptide associated with the human VH4-21 gene segment. *Ann NY Acad Sci*. 764:62, 1995.
 27. Frazer, J. K., LeGros, J., De Bouteiller, O., Liu, Y.-J., Banchereau, J., **Pascual, V.**, and J. D. Capra. Identification and cloning of genes expressed by human tonsillar B lymphocyte subsets. *Ann N Y Acad Sci*. 815:316-318, 1997.
 28. Frazer, J. K., **Pascual, V.**, and J. D. Capra. RDA of lymphocyte subsets. *J Immunol Methods*, 207: 1-12, 1997.
 29. Wilson, P., Liu, Y.-J., Potter, K., Banchereau, J., Capra, J. D., and **V. Pascual**. Somatic

- hypermutation introduces insertions and deletions into immunoglobulin genes. *J Exp Med.* 187:59-70, 1998.
30. Estess P, DeGrendele HC, **Pascual V**, Siegelman MH. Functional activation of lymphocyte CD44 in peripheral blood is a marker of autoimmune disease activity. *J Clin Invest* 1998 Sep 02(6):1173-82
 31. Yun TJ, Chaudhary PM, Shu GL, Frazer JK, Ewings MK, Schwartz SM, **Pascual V**, Hood LE, Clark EA. OPG/FDCR-1, a TNF receptor family member, is expressed in lymphoid cells and is up-regulated by ligating CD40. *J Immunol* 1998 Dec 1;161(11):6113-21
 32. Wilson, P., Wilson, K., Liu, Y.-J., Banchereau, J., **Pascual, V.**, and J.D. Capra. Identification of Ig receptor revision in human B lymphocytes. *J Exp Med.* 2000, 191: 1881-1894
 33. Wise, CA, Bennett, LB, **Pascual, V**, Gillum, JD, Bowcock, AM. Localization of a gene for familial recurrent arthritis. *Arthritis&Rheum.* 2000, 43: 2041-2045
 34. Frazer, K., Jackson, D., Gaillard, J-P, Lutter, M., J., Capra, J.D., Banchereau, J., and **V Pascual.** Identification of centerin, a novel human germinal center B cell-restricted serpin. *Eur. J. Immunol.* 2000, 30: 3039-3048.
 35. Arce, EA, Jackson, DG, Gill, MJ, Banchereau, J, and **V Pascual.** Increased frequency of pre-germinal center B cells and plasmablasts in the blood of children with SLE. *J. Immunol.* 2001 167:2361-2369.
 36. Blanco, P., Palucka, A.K, Gill, M., **Pascual, V.**, and Banchereau, J. Induction of dendritic cell differentiation by IFN- α in Systemic Lupus Erythematosus. *Science.* 2001;294:1540-3.
 37. Quintero A, Punaro M, and **Pascual V.** Faces of Eosinophilic Fascitis in Childhood. *Journal of Clinical Rheumatology.* 2002, 8:99-103
 38. Gill, M., Banchereau, J., Blanco, P., Arce, E., **Pascual, V.**, and Palucka, A.K. Plasmacytoid dendritic cells (DCs) and DC-poietins in systemic lupus erythematosus. *Human Immunol.* 2002, 63:1172-1180
 39. Bennett, L., Palucka, A.K., Arce, E., Cantrell, V., Banchereau, J., and **Pascual, V.** Interferon and granulopoiesis signatures in pediatric SLE leukocytes. *J. Exp. Med.* 2003 Mar 17;197(6):711-23
 40. Chalouni, C., Vogt, A., Banchereau, J., **Pascual, V.**, and Davoust, J., Germinal Center signals down-regulate B cell expression of non-classical HLA-DO and HLA-DM class II molecules. *Int. Immunol.* 2003 Apr;15(4):457-466
 41. Jego, G., Palucka, A.K., Blanco, J.P., Chalouni, C., **Pascual, V.**, Banchereau, J. Plasmacytoid dendritic cells induce plasma cell differentiation through interferon alpha and interleukin 6. *Immunity*, 2003, 19: 225-234.
 42. Stichweh, D., Punaro, M., and **Pascual, V.** Dramatic Improvement of Pyoderma Gangrenosum with Infliximab in a child with PAPA syndrome. *Ped. Dermatol.* In Press.
 43. Zheng, N-Y., Wilson, K., Wang, X., Boston, A., Kolar, G., Jackson, S.M., Liu, Y-J., **Pascual, V.**, Capra, J.D., and P.C. Wilson. Human Immunoglobulin selection associated with class switch and

- possible tolerogenic origins for Cd class-switched B cells. *J. Clin. Invest.*, 2004;113(8):1188-201.
44. Chaussabel, D., Allman, W., Mejias, A., Chung, W., Bennett, L., Ramilo, O., **Pascual, V.**, Palucka, A.K., and Banchereau, J. Analysis of significance patterns identifies ubiquitous and disease-specific gene-expression signatures in patient peripheral blood leukocytes. *Ann NY Acad Sci.* 2005 Dec;1062:146-54.
 45. Palucka, A.K., Blanck, J.P., Bennett, L., Pascual, V., and J. Banchereau. Cross-regulation of TNF and IFN- α in autoimmune diseases. *Proc Natl Acad Sci U S A.* 2005, 102(9):3372-7
 46. Yurasov, S., Wardemann, H., Hammersen, J., Tsuiji, M., Meffre, E., **Pascual, V.**, Nussenzweig, M.C. Defective B Cell Tolerance Checkpoints in Systemic Lupus Erythematosus. *J Exp Med*, 2005 Mar 7; 201(5):703-11
 47. **Pascual, V.**, Allantaz, F., Arce, E., Punaro, M., and Banchereau, J. (2005). Role of interleukin-1 (IL-1) in the pathogenesis of systemic onset juvenile idiopathic arthritis and clinical response to IL-1 blockade. *J Exp Med* 201 :1479-86.
 48. Stichweh DS, Punaro M, **Pascual V.** Dramatic Improvement of Pyoderma Gangrenosum with Infliximab in a Patient with PAPA Syndrome. *Pediatr Dermatol.* 2005 May-Jun;22 (3):262-5.
 49. Languren, M., Becerril, B., Cabral, A.R., Fernandez-Altuna, L.E., **Pascual, V.**, Hernandez-Ramirez, D.F., Cabiedes, J. Characterization of monoclonal anti-beta2-glycoprotein-I and anti-prothrombin antibody fragments generated by phage display from a patient with primary antiphospholipid syndrome. *J Autoimmun.* 2006 Feb;26:57-65.
 50. Bennett, L., Stichweh, D., Patel, P., Allantaz, F., Barnboym, E., Quiceno, A., Cush, J., Punaro, M., Wittkowski, K.M., Banchereau, J., **Pascual, V.**, and Chaussabel, D. Multivariate analysis of blood transcriptional modules permits treatment-independent assessment of SLE disease activity. Submitted.
 51. Chaussabel, D., Shen, J., Glaser, C., Allman, W., Mejias, A., Allantaz, F., Kaizer, E., Randall, H., Chung, W., Lorgeoux, R-P., Bennett, L., Fay., J., White, P., Klintmalm, G., Ramilo, O., **Pascual, V.**, Palucka, K., And Banchereau, J.. Modular-level analysis of microarray transcriptional profiles. Submitted.
 52. Allantaz, F., Chaussabel, D., Stichweh, D., Punaro, M., Bennett, L., Allman, W., Mejias, A., Ardura, M., Chung, W., Wise, C., Palucka, K., Ramilo, O., Banchereau J., and **Pascual, V.** Diagnosis of Systemic Onset Juvenile Idiopathic Arthritis through Blood Leukocyte Microarray Analysis. Submitted

CHAPTERS AND REVIEWS

1. **Pascual V**, Capra JD. Human heavy chain genes and autoimmunity. In: *Idiotypic Networks in Biology and Medicine*. ADME Osterhaus and FGCM Uytdehaag, Eds. Elsevier Science Publishers BV, pp 27-35, 1990.
2. Van der Heijden R, Bunschoten H, **Pascual V**, Uytdehaag FGCM, Capra JD, Osterhaus ADME. Molecular characteristics of a human anti-idiotypic B cell clone. In: *Idiotypic Networks in Biology and Medicine*. ADME Osterhaus and FGCM Uytdehaag, Eds. Elsevier Science Publishers

BV, pp 87-93, 1990.

3. **Pascual V**, Capra JD. Human immunoglobulin heavy chain variable region genes: organization, polymorphism, and expression. *Advances in Immunology*, 49: 1-74, 1991.
4. Victor, K., Andris, J., **Pascual, V.**, Capra, J. D. Some cautionary notes on interpreting immunoglobulin variable gene segment restriction in autoimmune disease. In: *Systemic autoimmunity*. P. E. Bigazzi and M. Reichlin eds. Marcel Dekker publisher, pp 1-12. 1991.
5. Stevenson, F., Spellerberg, M., Jefferies, L., Goldman, J., Hamblin, T., **Pascual, V.**, Capra, J. D., L. Silberstein. Monoclonal gammopathies and autoimmunity. In "*Monoclonal gammopathies III*". J. Radl and B. van Camp eds. pp 33-39, 1991.
6. **Pascual V**, Capra JD. B-cell superantigens? *Current Biology*, 1:315-317, 1992.
7. **Pascual V**, Widhopf G, Capra JD. The human V_H repertoire: a restricted set of V_H genes may be the target of immune regulation. *Int. Rev. Immunol.*, 8:147-157, 1992.
8. **Pascual V**, Capra JD. V_H4-21, a human V_H gene overrepresented in the autoimmune repertoire. *Arth. Rheum.*, 35:11-18, 1992.
9. Bona, C.A., Kelsoe, G., **Pascual, V.**, Capra, J. D. Expression and pairing of VH and VL families in murine and human self-reactive antibodies. In "*The Molecular Pathology of Autoimmune Diseases*", (eds. C. Bona, K. A. Siminovitch, M. Zanetti and A. N. Theophilopoulos). Harwood Academic Publ. New York, pp.65-83, 1993.
10. Randen, I., Thompson, K., **Pascual, V.**, Victor, K., Beale, D., Coadwell, J., Forre, O., Capra, J. D., and J. B. Natvig. Rheumatoid factor genes from patients with rheumatoid arthritis are diverse and show evidence of antigen driven response. *Immunol. Rev.* 128:49-71, 1992.
11. **Pascual, V.**, and J. D. Capra. Immunoglobulin heavy chain variable region gene usage in human autoimmune diseases. In *Inhibitors to Coagulation Factors*. L. M. Aledort et al. Eds. Plenum Press, 386:133-140, 1995.
12. **Pascual, V.**, and J. D. Capra. Tolerance to factor VIII inhibitors in hemophilia A patients: a French Twist. *J. Clin. Invest.*, 97:1-2, 1996.
13. Potter, K., Capra, J.D., and **V. Pascual**. Variable region genes of human autoantibodies to red blood cells. In "*Human B cell superantigens*". M. Zouali Ed. Landes Bioscience Publishers. pp. 225-243, 1996.
14. Potter, K., Li, Y., **Pascual, V.**, and J. D. Capra. Staphylococcal proyein A binding to VH3 encoded immunoglobulins. *Intern. Rev. Immunol.* 14:291-308, 1997.
15. **Pascual, V.**, Wilson, P., and J. D. Capra. Biased VH4 gene segment repertoire in the human tonsil. In "*Chem Immunol.*". Ferrarini M., Caligaris-Carpio, F. (eds): Human B cell subpopulations. Basel, Karger. Vol 67, pp 45-67, 1997.
16. **Pascual, V.**, Liu, Y.-J., and J. Banchereau. Normal B cell subpopulations and their malignant counterparts. *Bailliere's Clinical Hematology*, 10(3): 525-538, 1997.

17. Wilson PC, Liu YJ, Banchereau J, Capra JD, and **Pascual V**. Insertions and deletions contribute to diversify the human Immunoglobulin repertoire. *Immunol Rev.* Apr; 162: 143-151, 1998.
18. Palucka, A.K., Banchereau, J., Blanco, P., and **Pascual, V**. The interplay of dendritic cell subsets in systemic lupus erythematosus. *Immunology and Cell Biol.* 2002 Oct;80(5):484-8, 2000.
19. Banchereau J, Pacesny S, Blanco P, Bennett L, **Pascual V**, Fay J, Palucka AK. Dendritic Cells: Controllers of the Immune System and a New Promise for Immunotherapy. *Ann N Y Acad Sci.* 987:180-182, 2003
20. **Pascual, V.**, Banchereau, J., and Palucka, K. The central role of dendritic cells and Interferon alpha in SLE. *Current Opinion in Rheumatology.* 15:548-556, 2003
21. Banchereau, J., **Pascual, V.**, Palucka, A.K. Autoimmunity through cytokine-induced dendritic cell activation. *Immunity*, 2004;20:539-50
22. Stichweh, D., Arce, E., and **Pascual, V**. Update on Pediatric SLE. *Current Opinion in Rheumatology*, 16(5):577-87, 2004.
23. Jegou G, **Pascual V**, Palucka AK, Banchereau J. Dendritic cells control B cell growth and differentiation. *Curr Dir Autoimmun.*8:124-39, 2005.
24. Palucka AK, Laupeze B, Asford C, Saito H, Jegou G, Fay J, Pacesny S, **Pascual V**, Banchereau J. Immunotherapy via dendritic cells. *Adv Exp Med Biol.* 560:105-14, 2005.
25. Stichweh, D., and **Pascual, V**. Autoimmune mechanisms in children with SLE. *Current Rheumatology Reports.* 2005. 6: 421-426, 2005.
26. **Pascual, V.**, Palucka, K., and Banchereau, J. Role of innate immunity cytokines in systemic lupus and systemic onset arthritis. In "The Innate Immune System: Strategies for Disease Control". Taniguchi, Akira and Nakayama eds. *International Congress Series 1285*. Elsevier. p. 50-54, 2005.
27. Stichweh, D., **Pascual, V.**, and Banchereau, J. Recent advances in Therapeutic Strategies for SLE. *Strategies and Drug Discovery Today*. In Press.