

Curriculum Vitae
Anne Searls De Groot M.D.

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Languages

English
French: Bilingual and Fluent
Spanish (Medical)
Italian (Conversational)

Education

B.A., Smith College, Northampton, Massachusetts 1974-1978
M.D., Pritzker School of Medicine, University of Chicago 1979-1983

Post-Graduate Training

Residency in Internal Medicine 1983-1986
Department of Internal Medicine
Tufts New England Medical Center, Boston MA

Fellowship in Parasitology and Vaccine Research 1986-1989
National Research Service Award Fellow, National Institutes of Health
Malaria Section, Laboratory of Parasitic Diseases, NIAID (Russell Howard, Michael Good)
Metabolism Branch, NCI, National Institutes of Health (Jay A. Berzofsky)

Fellowship in Infectious Disease 1989-1992
Division of Geographic Medicine and Infectious Disease,
Tufts New England Medical Center, Boston MA

Graduate and Post-Graduate Honors/Awards

Kraft Nutrition Fellow: Research on newborn nutrition in Zaire and South Africa 1983
National Research Service Award for malaria and HIV immunology research 1986-1989
NFID Eli Lilly Award for TB immunology research 1991-1992
Visiting Scholar Award, TMRC, RITM, Manila, the Philippines 1995
Woman in Science of the Year, Women and Infants Hospital Auxiliary Committee 2002
Esquire "Best and the Brightest 2003" (Science and Industry) 2003
Unsung Heroes of HIV Rhode Island HIV Prevention Planning Committee 2004
Rhode Island Woman Physician of the Year, 2006 2006
Dr. Al Fisher Red Ribbon Award, Medicine, AIDS Project Rhode Island 2007
YWCA "Woman of Achievement Award" (Health Care) 2008

Bio

Educated at Smith College (BA, 1978), Pritzker School of Medicine / University of Chicago (MD, 1983), Internal Medicine (New England Medical Center, 1986); additional training in immunoinformatics and vaccinology with Russell Howard and Jay Berzofsky (NIH, Laboratory for Parasitic Diseases and National Cancer Institute, 1986-89), followed by clinical training in infectious disease at NEMC (1989-92). Board certified Internal Medicine (1986) and Infectious Disease (1992). Joined Brown University Medical School, and opened the TB/HIV Research Laboratory in 1992. Licensed EpiMatrix vaccine design technology from her laboratory at Brown and established EpiVax with Bill Martin, 1998. Will direct the activities of the Institute for Immunology and Informatics at University of Rhode Island, beginning October, 2008.

Recipient of a NFID-Eli Lilly Award, two RI Foundation awards and a Commercial Innovation Award (Slater Biomedical Foundation), given "Genius Award" in Science and Technology by Esquire Magazine (2003) and honored by the RI Tech Collective (2006) for work on the GAIA HIV vaccine. Awarded "RI Woman Physician of the Year" in 2006, received the Alvan Fisher Award for Medical Advocacy from AIDS project Rhode Island in December 2007 and the "Woman of Achievement Award, 2008" from the YWCA for her work relating to Access to Care in Providence and West Africa. Has published 57 original papers and 53 chapters and reviews.

Professional Licenses and Board Certification

Internal Medicine	1987
Infectious Disease	1992
American Academy of HIV Medicine AAHIVM	2002

Academic Appointments

Clinical Instructor, Department of Medicine Division of Geographic Medicine and Infectious Diseases	1989-1991
Special Scientific Staff, Department of Medicine Division of Geographic Medicine and Infectious Diseases Tufts New England Medical Center	01/92-06/92
Assistant Professor of Medicine and Community Health Division of Biology and Medicine Joint appointment in the Department of Medicine and the Department of Community Health, Brown University School of Medicine	07/92-12/00
Assistant Professor of Community Health (Research) Vincent Mor, Ph.D. Chairman Division of Biology and Medicine Brown University School of Medicine	01/01- 06/02
Associate Professor of Community Health (Research) Vincent Mor, Ph.D. Chairman Division of Biology and Medicine Brown University School of Medicine	07/02-12/05
Adjunct Associate Professor of Medicine	01/06-03/08

Division of Biology and Medicine
Brown University School of Medicine

Adjunct Associate Professor of Pediatrics Michael Friedman. Chairman (Pediatrics) Division of Biology and Medicine Brown University School of Medicine	March 08-
Professor, Biotechnology (Research) College of Environmental and Life Sciences Jeff Seemann, Ph.D., Dean University of Rhode Island	Sept 1, 2008
Director, Institute for Immunology and Informatics University of Rhode Island Biotechnology Program	Sept 1, 2008

Hospital Appointments

Assistant Director, HIV/AIDS Unit, Lemuel Shattuck Hospital	07/92-06/93
Director, Dual Infection (HIV/TB) Clinic, Lemuel Shattuck Hospital	05/93-01/94
Medical Staff, Geographic Medicine, Miriam Hospital, RI	07/92-present
Medical Staff, Infectious Diseases, (HIV clinic) Memorial Hospital of RI	07/97-06/01
Medical Staff, Rhode Island State TB Clinic (Roger Williams Hospital)	10/93-07/01
TB Clinic Staff/ Miriam Hospital Rise Clinic (TB Clinic)	07/01-present
Staff, HIV in Prisons Program, Yale University (York Institution for Women)	08/96-11/04
Rhode Island Free Clinic (Volunteer MD)	01/03-07/07
Clinica Esperanza (Free Clinic in Olneyville, Rhode Island) (Volunteer)	07/07-present

Other Appointments (Previous)

Director, I.D. (HIV) Clinic for Female Inmates, Massachusetts Correctional Institution at Framingham (under the MA Department of Public Health and the Shattuck Hospital)	05/92- 01/96
Yale HIV in Prison Program York Correctional Facility HIV Clinic Staff	01/96-11/04

Other Appointments (Current)

Founder and CEO, EpiVax Inc. EpiVax is a small (16 employees) Bioinformatics company that holds the exclusive license to the EpiMatrix technology. The company is located at 146 Clifford Street, in Providence. Clients include vaccine companies (Wyeth, Chiron), pharmaceutical companies (Lilly, Genentech, Amgen), other biotechnology companies (Beckman Coulter Immunomics, Sequella Inc., Genentech) and academic groups (CDC, Forsythe Institute, and the TB/HIV Research Lab). (See http://www.EpiVax.com).	5/98-present
Founder and Co-Chief editor, Infectious Diseases in Corrections Report (IDCR) Formerly known as HIV Education/Prison Project Report (HEPP Report)	7/98-7/2008

Monthly update on the management of Infectious Diseases (Hepatitis and HIV) specifically geared to address the needs of correctional health providers in prison settings. Yearly Budget \$250,000. 12 Employees and Contributors (Full and Part time). Circulation: >20,000 by facsimile and email. Website <http://www.HIVcorrections.org>

Founder and Scientific Director / **GAIA Vaccine Foundation** 5/01-present

GAIA (Global Alliance to Immunize against AIDS) is a non-profit (501C-3) organization that supports the development of a "Globally relevant, globally accessible" AIDS vaccine. EpiVax and Brown U. (Brown University Research Foundation) have agreed in principle to license the HIV vaccine that is currently being developed by the TB/HIV Research Lab in collaboration with EpiVax to GAIA. GAIA is seeking to fund further development of the vaccine through studies to be carried out in developing countries such as Mali, in West Africa. The GAIA Vaccine Foundation efforts are directed by the GAIA Board of Directors (See <http://www.GAIAvaccine.org>).

Founding member and Interim Medical Director, **Clinica Esperanza/ Hope Clinic.** 07/07- present

Clinica Esperanza/Hope Clinic is a community initiative-free clinic that will offer free, high quality medical care and preventive health services to adults and children living in Rhode Island who do not have health insurance or cannot afford to purchase health care. Located in the Olneyville neighborhood of Providence, Clinica Esperanza patients will receive care from an all-volunteer staff of highly trained and qualified physicians, nurse practitioners, nurses, medical assistants, medical students and interpreters. Local community members will volunteer as administrative support staff.

Editor

Founder and Chief Editor Infectious Diseases in Corrections Report (IDCR)	7/98-7/2008
Editor, AIDS Reader; Guest Editor (Prison series)	2000-2008
Guest Editor, Rhode Island Journal of Medicine (Clinical Trials series)	Dec. 2000
Editor, Emerging Infectious Diseases	2001-present
Invited Editor for issue of Methods (Academic Press)	2004
Co-editor (with L. Moise) of Vaccination issue for Medicine and Health Rhode Island	Oct. 2007

Hospital Committees

Quality Assurance, Lemuel Shattuck Hospital	1991-1992
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University Committees

People's Health Colloquium, Working group on the Social and Community Contexts of Health Care; Brown University School of Medicine	1992-1993
Foreign Research Fellowship Committee, Brown U. Medical School	1996-1997
Fogarty ARTP, International Health Institute, Senior Executive Committee	1996-1998
URI Center for Biotechnology and Life Sciences Development Committee	2008-present

Other Committees

Expert Panel, Health Status of Soon-to-be-released Inmates Project	1999
National Commission on Correctional Health Care	
Advisory Panel, World Health Organization TB Programme	1998-2000
National AIDS Minority Council (NMAC) Prison Advisory Panel	2000-2004

HRSA Advisory Panel on Medical Case Management and Support Services to Individuals with HIV Disease Being Released from Federal or State Prisons	2002
Vice President, Immunomics Society	2003-present
Rhode Island Technology Council BioGroup Steering Committee	2004- present
Advisor to Public Health Watch HIV/AIDS Project, Open Society Institute	
Assessment of the United States response to its domestic HIV/AIDS epidemic	2005-2006
UN Millennium Village Project Medical Advisor (Peter Hotez, Sonia Sachs)	2006-present
Friends of the Clinic (Free Clinical Care in Rhode Island)/Clinica Esperanza	July '07-present
Entrepreneurship "Hot Team" Providence Chamber of Commerce	Summer 2008
Co-Leader (with Barrett Bready) of Mayor Cicilline's Biotech Jewelry District Initiative	2007-present

Boards

Rhode Island Free Clinic Medical Advisory Board	2004-2007
Clinica Esperanza/Hope Clinic Medical Advisory Board	2007-present

Membership in Societies

Massachusetts Medical Society	current
Massachusetts Infectious Diseases Society	previous
Rhode Island Medical Society	current
Rhode Island Medical Women's Association	current
Wayland Collegium (Brown University)	current
International Immunomics Society	current
American Association of HIV Medicine	current

Research Publications (>110 total publications)

1. Quakyi IA, Otoo LN, Pombo D, Sugars LY, Menon A, A.S. DeGroot, Johnson AH, Alling D, Miller LH, and Good MF, **Differential nonresponsiveness in humans of candidate *Plasmodium falciparum* vaccine antigens**, *Am. J. Trop. Med. Hyg.*, 1989, Vol. 41, Issue 2, pp. 125-134.
2. A.S. De Groot, Johnson AH, Maloy WL, Quakyi IA, Riley EM, Menon A, Banks S M, Berzofsky JA, and Good MF, **Human T cell recognition of polymorphic epitopes from malaria circumsporozoite protein**, *J. Immunol.*, 1989, Vol.142, No.11, pp. 4000-4005.
3. Good MF, Kumar S, A.S. De Groot, Weiss WR, Quakyi IA, Dontfraid F, Smith FE, Cochran M, Berzofsky JA, Miller LH, **Evidence implicating MHC genes in the immunological nonresponsiveness to the plasmodium falciparum CS protein**, *Bulletin of the World Health Organization*, 68 Supplement: pp. 80-84, 1990.
4. A.S. De Groot, Hosmalin CM, Hughes A, Barnd SH, Hendrix D, Houghten CW, Shearer GM, Berzofsky JA, **Human Immunodeficiency Virus Reverse Transcriptase T Helper Epitopes Identified in Mice and Humans: Correlation with a Cytotoxic T Cell Epitope**, *J. Infectious Disease* 1991, Vol.164, pp.1058-1065.
5. A.S. De Groot, Scheib RG, McGowan K, Schmid CP, Lieberman J, Wyler DJ, **T-cell responses to *Mycobacterium tuberculosis* antigens in the HIV-infected host**. *Vaccines* 93, Cold Spring Harbor Press, Cold Spring Harbor, NY, pp. 251-257.
6. Meister GE, Roberts CGP, Berzofsky JA, A.S. De Groot, **Two novel T cell epitope prediction algorithms based on MHC-binding motifs; comparison of predicted and published epitopes from *Mycobacterium tuberculosis* and HIV protein sequences**, *Vaccine* 1995, Vol. 13, No. 6, pp. 581-591.
7. A.S. De Groot, Jesdale BM, Meister GE, Muni N, Roberts CGP, **Prediction of T Cell Epitopes for**

- HIV vaccine development by computer-driven algorithm**, in *HIV Molecular Immunology Database 1995*, Bette Korber, Gerald Meyers eds., Los Alamos National Laboratories, New Mexico, pp. iv17-iv28.
8. Stevens J, Zierler S, Dean D, Goodman AK, Chalfen EM, A.S. De Groot, **Prevalence of prior sexual abuse and HIV risk-taking behaviors in incarcerated women in Massachusetts**, *J. Correctional Health Care*, 1995, Vol. 2, Issue 2, pp. 137-149.
 9. Stevens J, Zierler S, Cram V, Dean D, Mayer KH, A.S. De Groot, **Risks for HIV infection in incarcerated women**, *J. Women's Health*, 1995, Vol. 4, No. 5, pp. 569-577.
 10. A.S. De Groot, Carter EJ, Roberts CGP, Edelson BT, Jesdale BM, Meister GE, Houghten RA, Montoya J, Romulo RC, Berzofsky JA, and Ramirez BDLL, **A novel algorithm for the efficient identification of T cell epitopes: prediction and testing of candidate TB vaccine peptides in genetically diverse populations**, *Vaccines 96*, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, pp. 127-134.
 11. Roberts CGP, Meister GE, Jesdale BM, Lieberman J, Berzofsky JA, A.S. De Groot, **Prediction of HIV peptide epitopes by a novel algorithm**, *AIDS Research and Human Retroviruses*, 1996, Vol. 12, No. 7, pp. 593-610.
 12. De Groot AS, Jesdale BM, Szu E, Schafer JR, Chicz RM, Deocampo G. **An interactive Web site providing major histocompatibility ligand predictions: application to HIV research**. *AIDS Res Hum Retroviruses*. 1997 May 1; 13(7):529-31.
 13. Jesdale BM, Deocampo G, Meisell J, Mullen L, Beall J, Marinello M, A.S. De Groot, **Matrix-based prediction of MHC-binding peptides: the Epimatrix algorithm, reagent for HIV research**, *Vaccines 97*, pp. 57-64, Cold Spring Harbor Laboratory Press 1997.
 14. Nguyen, KB, Suri, PK, Shah, AM, Goldberg, M, De Groot, AS, and Knopf, PM. **Differential immune responses against a *Schistosoma mansoni* candidate vaccine antigen in three murine strains**. *Vaccines 97*, 1997, 213-217.
 15. Gampper, SNR, George JA, Carter EJ, Jesdale BM, Flanigan TP, Mayer KH, A.S. De Groot, **Co-infection with *M. tuberculosis* (Mtb) and HIV in high risk clinical care settings in Rhode Island**, *AIDS Care*, 1998, Vol. 10, No. 2, pp. 221-229.
 16. Santiago ML, Santiago EG, Hafalla JCR, Manalo, MA, Orantia, L, Cajima, MNB, Martin C, Cuaresma, C, Dominguez CE, Borromeo ME, A.S. De Groot, Flanigan TP, Carpenter CJ, Mayer KH, Ramirez B, **Molecular Epidemiology of HIV-1 Infection in the Philippines, 1985-1997: Transmission of Subtypes B and E and Potential Emergence of Subtypes C and F**, *J. AIDS and Hu Retrovirology*, 1998, Vol. 18, No. 3, pp. 260-269.
 17. Schafer JA, Jesdale BM, George JA, Koultab NM, A.S. De Groot, **Prediction of well-conserved HIV-1 ligands using a Matrix-based Algorithm, EpiMatrix**, *Vaccine*, 1998, Vol. 16, No. 19, pp. 1880-1884.
 18. Fink MJ, Goodman, AK, Hight E, Miller- Mack E, A.S. De Groot, **Critical prevention, critical care: gynecological and obstetrical aspects of comprehensive HIV prevention and treatment among incarcerated women**. *J. Correctional Health Care*, 1998, Vol. 5, Issue 2, pp.201-223.
 19. A.S. De Groot, Leibel SR, Zierler S, **A Standard of HIV care for incarcerated women: Northeastern United States' Experiences**. *J. Correctional Health Care*, 1998, Vol. 5, Issue 2, pp. 139-177.
 20. Xia Jin, DF Nixon, CGP Roberts, Nixon DF, J Safrit, LQ Zhang, YX Huang, N Bhardwaj, B Jesdale, A.S. De Groot, RA Koup, **Identification of subdominant cytotoxic T lymphocyte epitopes encoded by autologous HIV type 1 sequences, using dendritic cell stimulation and computer-driven algorithm**. *AIDS Res Hu Retroviruses* Vol 16, No.1, pp. 67-76, January 2000.
 21. A.S. De Groot, Bick, J, Thomas, D, Stubblefield, E, **HIV Clinical Trials in Correctional Settings: Right or Retrogression?** *AIDS Reader*. 2001; 11(1):34-40.
 22. Bond KB, Sriwanthana B, Hodge TW, De Groot AS, Mastro TD, Young NL, Promadej N, Altman JD, Limpakarnjanarat K, McNicholl JM. **An HLA-directed molecular and bioinformatics approach identifies new HLA-A11 HIV-1 subtype E cytotoxic T lymphocyte epitopes in HIV-1 infected Thais**. *AIDS Research and Human Retroviruses* 2001; 17(8):703-18.
 23. A.S. De Groot, H. Sbai, C. Saint-Aubin, W. Martin, A. Bosma, G. Skowron, K. H. Mayer **Designing HIV-1 vaccines to reflect viral diversity and the global context of HIV/AIDS**.

- AIDScience* 1(2) June 22, 2001.
24. A.S. De Groot, Andrew Bosma, N. Chinai, J. Frost, Bill M. Jesdale, Michael A. Gonzalez, W. Martin, Caitlin Saint-Aubin. **From genome to vaccine: *In silico* predictions, *ex vivo* verification.** *Vaccine* 2001 Aug 14; 19(31):4385-95.
 25. A.S. De Groot, Saint Aubin, CS, Rayner, J, Martin, W. **Rapid Determination of HLA B*07-ligands from the West Nile Virus genome.** *Emerging Infectious Diseases*, Vol. 7, No. 4, July–August 2001: 706-713.
 26. H. Sbai, A. Mehta, A.S. De Groot. **Use of T cell epitopes for vaccine development.** *Current Drug Targets - Infectious Disorders*, 2001, 1, 283-293.
 27. A.S. De Groot, H. Sbai, C. Saint Aubin, J.A. McMurry, William Martin: **Immuno-informatics: Mining the genome for Vaccine Components.** *Immunology and Cell Biology*. Immunology and Cell Biology (2002) 80, 255–269.
 28. A.S. De Groot, J. Rayner, W. Martin. **Modeling the immunogenicity of therapeutic proteins using T cell epitope mapping.** In: *Immunogenicity of Therapeutic Biological Products. Developments in Biologicals.* Fred Brown, Anthony Mire Suis, editors. Basel, Karger, 2003. Vol 112:71-80.
 29. W. Martin, A. Bosma, H. Sbai and A.S. De Groot. **The use of bioinformatics for identifying class I restricted T cell epitopes.** *Methods* (Epitope Mapping Issue). Bill Kwok, editor, *Methods* 29 (2003) 289–298.
 30. A.S. De Groot, Vishvanath Nene, Nagendra R. Hedge, S. Srikumaran, James Rayner and William Martin. **T Cell Epitope Identification for Bovine Vaccines: An Epitope Mapping Method for BoLA A-11.** *International Journal for Parasitology* (Thematic Issue on Vaccines, David Brake Editor, (Vol 33/5-6 pp 641-653). 2003.
 31. Lopes AR, Jaye A, Dorrell L, Sabally S, Alabi A, Jones NA, Flower DR, De Groot AS, Newton P, Lascar RM, Williams I, Whittle H, Bertoletti A, Borrow P, Maini MK. **Greater CD8+ TCR heterogeneity and functional flexibility in HIV-2 compared to HIV-1 infection.** *J Immunol.* 2003 Jul 1; 171(1):307-16.
 32. A.S. De Groot, Hakima Sbai, Bill Jesdale, W. Martin, C. Saint Aubin, H. Sbai, A. Bosma, Judy Lieberman, G.A. Skowron, Fadi Mansourati, Ken Mayer. **Mapping Cross-clade HIV-1 Vaccine Epitopes Using a Bioinformatics Approach.** *Vaccine* 21 (2003) 4486–4504.
<http://www.sciencedirect.com/science/journal/0264410X>.
 33. Dong Y, Demaria S, Sun X, Santori FR, Jesdale BM, De Groot AS, Rom WN, Bushkin Y. **HLA-A2-restricted CD8+-cytotoxic-T-cell responses to novel epitopes in Mycobacterium tuberculosis superoxide dismutase, alanine dehydrogenase, and glutamine synthetase.** *Infect Immun.* 2004 Apr; 72(4):2412-5.
 34. De Groot AS, Bishop EA, Khan B, Lally M, Marcon L, Franco J, Mayer KH, Carpenter CC, Martin W. **Engineering immunogenic consensus T helper epitopes for a cross-clade HIV vaccine.** *Methods.* 2004 Dec; 34(4):476-87 *Bioinformatics in Vaccine Design.*
 35. McMurry, J, Sbai H, Gennaro ML, Carter EJ, Martin W, De Groot AS. **Analyzing Mycobacterium tuberculosis proteomes for candidate vaccine epitopes.** *Tuberculosis* (Edinb). 2005; 85(1-2):95-105.
 36. De Groot AS, Marcon L, Bishop EA, Rivera D, Kutzler M, Weiner DB, Martin W. **HIV vaccine development by computer assisted design: the GAIA vaccine.** *Vaccine.* 2005 Mar 18; 23 [7-18]:2136-48.
 37. De Groot AS, McMurry J, Marcon L, Franco J, Rivera D, Kutzler M, Weiner D, Martin B. **Developing an epitope-driven tuberculosis (TB) vaccine.** *Vaccine.* 2005 Mar 18; 23(17-18):2121-31.
 38. Otero M, Calarota SA, Dai A, De Groot AS, Boyer JD, Weiner DB. **Efficacy of novel plasmid DNA encoding vaccinia antigens in improving current smallpox vaccination strategy.** *Vaccine.* 2005 Aug 30.
 39. De Groot A.S., P.M. Knopf, Bill Martin. **De-immunization of therapeutic proteins by T cell epitope modification.** Mire-Sluis, A. Ed. *State of the Art Analytical Methods for the Characterization of Biological Products and Assessment of Comparability.* Dev. Biol. Basel, Karger, 2005. Vol 122. pp 137-160.

40. Inaba H, Martin W, De Groot AS, Qin S, De Groot LJ. **Thyrotropin receptor epitopes and their relation to histocompatibility leukocyte antigen-DR molecules in Graves' disease.** J Clin Endocrinol Metab. 2006 Jun;91(6):2286-94. Epub 2006 Apr 4.
41. Koita, OA, D. Dabitaou, I. Mahamadou, M. Tall, A. S. Dao, A. Tounkara, H. Guiteye, C. Noumsi, O. Thiero, M. Kone, D. Rivera, J. A. McMurry, W. Martin, De Groot AS. **Confirmation of Immunogenic Consensus Sequence HIV-1 T-cell Epitopes in Bamako, Mali and Providence, Rhode Island.** Human Vaccines 2006 June; 2(3), 119-128.
42. McMurry JA, S. Kimball, J. Lee, D. Rivera, W. Martin, D.B. Weiner, M. Kutzler, D.R. Sherman, H. Kornfeld, De Groot AS. **Epitope-Driven TB Vaccine Development : A streamlined approach using immunoinformatics, ELISpot assays, and HLA transgenic mice.** Current Molecular Medicine, Curr Mol Med. 2007 Jun;7(4):351-68.
43. McMurry JA, Gregory SH, Moise L, Rivera D, Buus S, De Groot AS. **Diversity of Francisella tularensis Schu4 antigens recognized by T lymphocytes after natural infections in humans: Identification of candidate epitopes for inclusion in a rationally designed tularemia vaccine.** Vaccine. 2007 Apr 20;25(16):3179-91.
44. De Groot AS, Goldberg M, Moise L, Martin W. **Evolutionary deimmunization: An ancillary mechanism for self-tolerance.** Cell Immunol. 2007 Apr 17; Epub. Cellular Immunology. Volume 244, Issue 2, December 2006, Pages 148-153. <http://dx.doi.org/10.1016/j.cellimm.2007.02.006>
45. Koren E, De Groot AS, Jawa V, Beck KD, Boone T, Rivera D, Li L, Mytych D, Koscec M, Weeraratne D, Swanson S, Martin W. **Clinical validation of the "in silico" prediction of immunogenicity of a human recombinant therapeutic protein.** Clin Immunol. 2007 Jul;124(1):26-32.
46. Original Paper. De Groot AS, L. Moise, W. Martin, F. Guirakhoo, and T. Monath. **Analysis of ChimeriVax Japanese Encephalitis(JE) virus Sequence for T cell epitopes and comparison to circulating wild type JE Virus strains.** Nov. 2007. Vaccine 25 (2007) 8077–8084.
47. Original Paper. Moise L, McMurry JA, Pappo J, Lee DS, Moss SF, Martin WD, **De Groot AS. Identification of genome-derived vaccine candidates conserved between human and mouse-adapted strains of H. pylori.** Hum Vaccines. 2007 Dec 8;4(3)
48. Original Paper. Knopf PM, Rivera DS, Hai SH, McMurry J, Martin W, **De Groot AS. Novel function of complement C3d as an autologous helper T-cell target.** Immunol Cell Biol. **2008** Mar;86(3):221-5.
49. Original Paper. A S. De Groot. Daniel S. Rivera, J. A. McMurry, S. Buus, W. Martin, **Identification of Immunogenic HLA-B7 "Achilles' heel" Epitopes Within Highly Conserved Regions of HIV.** Vaccine, **2008**, 26, 3059—3071.
50. Liso A, Colau D, Benmaamar R, De Groot A, Martin W, Benedetti R, Specchia G, Martelli MP, Coulie P, Falini B. **Nucleophosmin leukaemic mutants contain C-terminus peptides that bind HLA class I molecules..** Leukemia, **2008**, Feb;22(2):424-6.
51. Original Paper. De Groot A.S., L. Moise, J.A. McMurry, Erik Wambre, Laurence Van Overvelt, Philippe Moingeon, W. Scott, W. Martin, **Activation of Natural Regulatory T cells by IgG Fc-derived Peptide "Tregitopes".** Blood, **2008**, 112: 3303.
52. Leonard Moise, Julie A. McMurry, Soren Buus, Sharon Frey, William D. Martin and Anne S. De Groot. **In Silico-Accelerated Identification of Conserved and Immunogenic Variola/Vaccinia T-Cell Epitopes**, Submitted to Vaccine (David Weiner, special editor), Accepted for publication, December, 2008.

Chapters and Review Publications (57)

1. Chapter. Raybourne, RB. Hermann, E, Kellner, H, De Groot, A.S., Huang, F, Williams, K.M., Roth, G., Yu, D.T.Y. **The role of peptides in the recognition of HLA-B27 by cytotoxic T cells and by antibodies, with special emphasis on arthritis patients**, Chapter 11 in *HLA-B27 in the Development of Spondyloarthropathies*. Carlos Lopez Larrea. R. G. Landes Bioscience, Austin Texas USA.1997.
2. Proceedings. Flanigan TP, Vigilante K, Burzinsky J, Bubly G, Kim J, Cu-Uvin S, DeCiantis ML,

- Normandy L, Snead M, A.S. De Groot, DeBuono BA, **Medical Care of HIV-Infected Prisoners: The Rhode Island Experience**, in *AIDS Clinical Research and Care: Meeting the Challenges of an Epidemic in Flux*, PRIM&R Conference Proceedings Oct 29-30, 1992.
3. Report. Flanigan TP, Bury-Maynard D, Vigilante K, Burzinsky J, Bubly G, Kim J, Rich JD, Zierler S, DeCiantis DL, Normandy L, Snead M, A.S. De Groot, Loberti P, DeBuono BA, **The Rhode Island Prison Release Program**, in *Progress and Challenges in Linking Incarcerated Individuals with HIV/AIDS to Community Services*, Health Resources and Services Administration Bureau of Health Resources Development Office of Science and Epidemiology, June 1995.
 4. Article. A.S. De Groot, Meister GE, Roberts CGP, Edelson BT, Ramirez B, Berzofsky JA, **Algorithms for Mycobacterial Vaccine Development**, Proceedings of the International symposium on Bovine TB in Animals and Human Beings, USDA/NIAID, NIH, 1995.
 5. Chapter. A.S. De Groot, Meister GE, Cornette JL, Margalit H, DeLisi C, and Berzofsky JA; **Computer Prediction of T Cell Epitopes**, in *New Generation Vaccines*, 2nd edition, Myron M. Levine, Graeme C. Woodrow, James B. Kaper, Gary S. Cobon, eds., Marcel Dekker Inc. NYC, NY, 1996.
 6. Review. A.S. De Groot, Hammett TM, Scheib RG, **Barriers to Care of HIV-Infected inmates: a public health concern**, *AIDS Reader*, 1996, May / June, pp. 78-87.
 7. Review. A.S. De Groot, **HIV infection among incarcerated women: Epidemic behind bars**. *AIDS Reader*, 2000; 10:287-295.
 8. Review of Proceedings. A.S. De Groot, Leibel SR, **Reports from the New England Regional Symposium on HIV Infection among incarcerated women**. *J. Correctional Health Care*, 1998, Vol. 5, Issue 2, pp. 125-127.
 9. Chapter. A.S. De Groot and Debi Cuccinelli, **Put her in a cage: Childhood sexual abuse, incarceration, and HIV infection**, chapter in *The Gender Politics of HIV in Women: Perspectives on the Pandemic in the United States* J. Manlowe and N. Goldstein, ed., New York University Press, 1997.
 10. Chapter. A.S. De Groot, Jesdale BM, Berzofsky JA, Prediction and determination of MHC ligands and T Cell Epitopes, Chapter 3, Immunology Methods, SHE Kaufmann, ed, Methods in Microbiology, Vol 25, p 79-106, Academic Press, NY 1998.
 11. Review. A.S. De Groot, Leibel SR, **The need for Compassionate Care: HIV Infection Among Incarcerated Women**, *Medicine and Health*, RI, Vol 81. No. 6, p 209-211, 1998.
 12. Review. A.S. De Groot, Stevens J, Pratt L, Leibel SR, Zierler S, **Setting the Standard for Care: HIV Risk Exposures and Clinical Manifestations of HIV in Incarcerated Massachusetts Women**, *New England Journal of Criminal and Civil Confinement*, Vol 24, pp 353-378, July 1998.
 13. Book Review. De Groot, A. **Legacy of light for women living with HIV in prison** (review of *Breaking the Walls of Silence* by members of the ACE Program of Bedford Hills). *Lancet*, March 27 1999. 353. pp 1107, March 1999.
 14. Editorial. A.S. De Groot and Rothman FG, **In Silico Predictions; in Vivo Veritas** (News and Views), *Nature Biotechnology* Vol 17, No. 6, pp. 533-34, June 1999.
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 38. A.S. De Groot, George JA, Gonzalez M, Chinai N, **Genome to T Cell: Epitope-Driven Vaccine Design**, Abstract and oral presentation, Microbial Genomes Conference, Chantilly, VA, 01/99.
 39. A.S. De Groot, George J, Gonzalez M, Jin X, Bond K, Koup R, McNicholl J, **Prospective Identification of MHC Ligands and CTL Epitopes from HIV Proteins using Bioinformatics**, Abstract number 43, Poster and oral presentation at the 6th conference on Retroviruses and Opportunistic Infections, Chicago, IL, 01/99.
 40. A.S. De Groot, Gonzalez M, Chinai N, Barnea JD, **From Genome to T Cell: Searching for Agretopes**, poster and abstract, Second Annual Vaccine meeting (ASM, NIAID, NFID), Washington DC 1999.
 41. A. Breu, M. Gonzalez' I. Brichkov, R. Whalen, H. Sbai, A.S. De Groot. **Use of the plasmid pRc/CMV-HBs(S) as a vector for an epitope-based DNA vaccine against Mycobacterium tuberculosis**. Molecular Approaches to Vaccines Meeting, Cold Spring Harbor Laboratory, 12/99. Poster presentation.
 42. N. Chinai, Assan Jaye, A. Bosma, Hilton Whittle, A.S. De Groot. **Successful identification of novel HIV-2 epitopes and a single "cross-reactive" HIV-1/HIV-2 CTL epitope using a bioinformatics approach**. Molecular Approaches to Vaccines Meeting, Cold Spring Harbor Laboratory, 12/99. Poster presentation.
 43. M. Gonzalez, J. Frost, A. Bosma, J. R. Schafer, R. Whalen, H. Sbai, G.A. Skowron, A.S. De Groot' **Developing a "World Clade" HIV Vaccine using a Bioinformatics Approach**. Molecular Approaches to Vaccines Meeting, Cold Spring Harbor Laboratory, 12/99. Oral and Poster presentation.
 44. De Groot A.S., M. Gonzalez, J. Frost, A. Bosma, J. R. Schafer, G. Skowron, W. Martin. **Designing and Assessing HIV Vaccines for Cross-Clade Immunogenicity using Bio-informatics** Abstract number 589, Poster at the 6th conference on Retroviruses and Opportunistic Infections, Chicago, IL, 01/99.
 45. N. M. Chinai, Michael B. Gonzalez, A. Bosma, J. A. George, R. C. Bollinger, A.S. De Groot. **Towards developing an HIV 1 vaccine for India: Computer driven prediction and analysis of CTL epitopes**. Molecular approaches to Vaccine Design. Cold Spring Harbor Laboratory, Cold Spring Harbor New York. 12/99.
 46. A. Breu, M. Gonzalez' Igor Brichkov, J. George, R. Whalen, H. Sbai' Anne S. De Groot. **Use of the plasmid prc/CMV-HBS(S) as a vector for an epitope-based vaccine against Mycobacterium**

- tuberculosis.** Molecular approaches to Vaccine Design. Cold Spring Harbor Laboratory, Cold Spring Harbor New York. 12/99.
47. A.S. De Groot, J. George, M. Gonzalez, X Jin, K Bond, R Koup, J McNicholl. **Prospective Identification of MHC Ligands and CTL Epitopes from HIV Proteins using Bioinformatics** 7th Conference on Retroviruses and Opportunistic infections, San Francisco, 01/00, Poster.
 48. S. Demaria, X Sun, BM Jesdale, A.S. De Groot, C Steinzig, WN Rom, and Y Bushkin, **HLA A2 Restricted, CD8 Dependent Cytotoxic T cell response to mycobacterial superoxide dismutase.** Microbial Pathogenesis and Host Response, Cold Spring Harbor, NY, 2000.
 49. A.S. De Groot, J. McMurry, H. Sbai, and W. Martin. **From Genome to T Cell: Epitope-Driven TB Vaccine Design.** Molecular and Cellular Aspects of Tuberculosis Research in the Post-Genome Era. (Keystone Symposia) 01/01 (Abstract 262)
 50. A.S. De Groot, J. Frost, M. Gonzalez, C. Saint-Aubin, H. Sbai, G. Skowron, and W. Martin. **"World Clade" Vaccine Design: Selection and Confirmation of Conserved HIV-1 CTL Epitopes Using a Bioinformatics Approach.** 8th Conference on Retroviruses and Opportunistic infections, Chicago, 02/01, Poster 195
 51. P. Hansasuta, S. Buranapraditkul, J. Sanruk, T. Rostron, P. Phanuphak, K. Ruxrungtham, J. McNicholl, Kyle Bond, De Groot A.S., and S. Rowland-Jones. **Cross-Clade CTL in Thai HIV-Infected Subjects.** 8th Conference on Retroviruses and Opportunistic infections, Chicago, 02/01, Poster 164
 52. Neel K. Shah, Michael J.B. Gonzalez, A. Bosma, Kenneth H. Mayer, A.S. De Groot. **Cross-Clade Conservation of HIV-1 CTL Epitopes in the Aidsvax[®] and Aventis CP205[™] Vaccines.** NFID Fourth Annual Conference on Vaccines, Arlington VA 2001. Oral presentation S17.
 53. De Groot A.S., Caitlin Saint-Aubin, J. Rayner, W. Martin **Rapid Determination of candidate HLA B*07- restricted CTL epitopes from the West Nile Virus NY99 genome.** NFID Fourth Annual Conference on Vaccines, Arlington VA 2001. Oral presentation Poster presentation P17.
 54. N. Chinai, Assan Jaye, A. Bosma, Hilton Whittle, A.S. De Groot. **Defining novel immunogenic HIV-2 peptides using a bioinformatics approach.** Keystone meeting HIV Vaccines. 04/01.
 55. H. Sbai, J.A. McMurry, Bill Martin, J. Rayner, J. Frost, Anne DeGroot. **Computational methods for mapping T cell epitopes: A streamlined approach to vaccine design.** FOCIS Annual Meeting, Boston, 05/01.
 56. H. Sbai, N. Chinai, J. Frost, A. Bosma, G.A. Skowron, W. Martin, De Groot A.S.. **Designing an HIV world clade vaccine using bioinformatics-based approach,** Second International Conference on Vaccine Development and Immunotherapy in HIV, San Juan, 05/01.
 57. H. Sbai, J. Frost, C. Saint-Aubin, J.A. McMurry, A. Girvin, Bill Martin, A. Bosma, J. Rayner, Anne DeGroot. **Computational methods for mapping T cell epitopes in the TB proteome: A streamlined approach to vaccine design.** U.S.-Japan Joint Tuberculosis/Leprosy Conference, New Orleans, 07/01.
 58. A.S. De Groot, R.G. Scheib, K. McGowan, D. Doughty, A. Bosma, W. Martin. **Building Vaccines from Immunogenic Consensus Sequences.** Oral Presentation S29: The National Foundation for Infectious Diseases: Fifth Annual Conference on Vaccine Research, 05/02, Baltimore, Maryland
 59. A.S. De Groot, A. Bosma, C. Saint Aubin, H. Sbai, W. Martin **New Uses for Licensed Vaccines: Evaluation of the Japanese Encephalitis Virus Vaccine and the NY99 West Nile Virus Genomes for Cross-reactive T Cell Epitopes.** Oral presentation S35: The National Foundation for Infectious Diseases: Fifth Annual Conference on Vaccine Research, 05/02, Baltimore, Maryland
 60. Z. Peacock, W.F. King, L. Barnes, W. Martin, **A S. De Groot,** M.A. Taubman, and D.J. Smith, Immunogenicity of Peptides Derived from S. mutans GBP-B. International Association of Dental Researchers (IADR) /2002, SanDiego abstract_219. June 2002.
 61. A.S. DeGroot, H. Sbai, A McMurry, ML Gennaro, EJ Carter, W. Martin. **Analyzing Mycobacterium Tuberculosis Proteomes for Candidate TB Vaccine Epitopes.** Oral presentation S36: The National Foundation for Infectious Diseases: Fifth Annual Conference on Vaccine Research, Baltimore, Maryland 05/02.
 62. J. I. Franco, L. Marcon, H. Sbai, S. Foti, D. Rivera, A. Bosma, B. Martin, De Groot A.S. **Prototype Multi-Epitope DNA Vaccine Design for HIV.** Poster: The National Foundation for Infectious Diseases: Sixth Annual Conference on Vaccine Research, 05/03.

63. De Groot A.S. J. A. McMurry, W. Martin. **Analyzing Mycobacterium tuberculosis proteomes for candidate TB vaccine epitopes.** The National Foundation for Infectious Diseases: Sixth Annual Conference on Vaccine Research, 05/03.
64. X. D. Guo, W. Martin; A. D. Groot, M. L. Gennaro¹ **Use of Bioinformatics and Molecular Biology for Mycobacterium tuberculosis Antigen.** Keystone Symposium. 01/03.
65. De Groot A.S., H. Sbai, J. A. McMurry, M. L. Gennaro, E. J. Carter, W. Martin. **Analyzing the Mycobacterium tuberculosis proteomes for candidate TB vaccine epitopes.** 4th World TB Congress, Marriot Hotel, 06/02. Washington DC.
66. A.S. De Groot, H. Sbai, E. A. Bishop, S. Foti, J. Franco, M. Lally, D. B. Weiner, K. H. Mayer, C. C. J. Carpenter, W. Martin. **Developing an Immunogenic Consensus Sequence T cell Epitopes for the GAIA Cross-Clade HIV Vaccine** (Poster 15) Sixth Annual Conference on Vaccine Research/NFID National Foundation for Infectious Diseases, 05/03 Arlington, Virginia.
67. R. Doctors, H. Sbai, B. Martin, A.S. De Groot. **Using Computational methods and in vitro testing to identify novel epitopes in Epstein Barr Virus.** Cold Spring Harbor Laboratory Microbial Pathogenesis & Host Response, 09/03.
68. J.I. Franco, H. Sbai, B. Khan, B. Martin, M. Stellar, A.S. De Groot. **Towards Developing an Epitope-Based HPV Vaccine.** Poster Presentation. Microbial Pathogenesis and Host Response. Cold Spring Harbor, 09/03.
69. De Groot A.S., J. A. McMurry, H. Sbai, M. L. Gennaro, E. J. Carter, W. Martin, David Sherman. **Epitope-Driven TB DNA Vaccines: An Immunoinformatics Approach** TB Vaccine 2003. Montreal, Canada. 09/03.
70. Judith Franco HIV Epitope Delivery: **Prototype Multi-epitope DNA Vaccine Design.** Oral Presentation Undergraduate International Research Conference on Global Public Health. CDC. 05/03 <http://www.sit.edu/publichealth/>
71. Sangeeta Tripathi **Knowledge, Attitudes, Practice survey of an HIV Vaccine in Bamako Mali.** Oral Presentation. Undergraduate International Research Conference on Global Public Health. CDC. 05/03. <http://www.sit.edu/publichealth/>
72. S. Foti, De Groot A.S., W. B. Martin, J. E. Crowe, M. T. Rock. **Prediction and Confirmation of Novel Smallpox Ligands Based on Conserved T cell Epitopes from the Vaccinia and Variola Genomes.** The National Foundation for Infectious Diseases: Eighth Annual Conference on Vaccine Research, 05/04.
73. A.S. De Groot, H. Sbai, E.A. Bishop, S. Foti, J. Franco, M. Lally³, D. B. Weiner, K.H. Mayer, C.C.J. Carpenter, W. Martin. **Developing a Immunogenic Consensus Sequence T cell Epitopes for the GAIA Cross-Clade HIV Vaccine.** The National Foundation for Infectious Diseases: Eight Annual Conference on Vaccine Research, 05/04.
74. A Tounkara, S Dao, H Guiteye, C Noumsi, D Dabitaio, E A Bishop, W Martin, A S De Groot **Bamako, Mali: confirmation of immunogenic consensus sequence T cell Epitopes for the GAIA Cross-Clade HIV Vaccine** Abstract no. ThPeA6996 The XV International AIDS Conference, 2004.
75. A S DeGroot, EA Bishop, S Foti, J Franco, W Martin, M Lally, C C J Carpenter, K H Mayer **Providence, USA: Confirmation of immunogenic consensus sequence T cell Epitopes for the GAIA cross-clade HIV vaccine** Abstract no. ThPeA6995 The XV International AIDS Conference, 2004.
76. S. Foti, W. Martin, L. Marcon A.S. De Groot **In silico and in vitro evaluation of cross-conserved T cell epitopes for Japanese encephalitis virus and West Nile virus.** Accepted, (Poster P4) Fourth World Congress on Vaccines and Immunization, Tskukuba Science City /Tokyo, Japan, 09-10/04.
77. S. Foti, W. Martin, L. Marcon A.S. De Groot **T-cell epitopes conserved between variola and vaccinia: Prediction and confirmation.** (Poster P5) Fourth World Congress on Vaccines and Immunization, Tskukuba Science City /Tokyo, Japan, 09-10/04.
78. R. Doctors, S. Foti S. Kimball¹, B. Martin A.S. De Groot. **Computational methods and in vitro testing to identify novel epitopes for a therapeutic EBV vaccine.** (Poster P6) Fourth World Congress on Vaccines and Immunization, Tskukuba Science City /Tokyo, Japan, 09-10/04.
79. Martin W, Marcon L, Rivera D, Kutzler M, Bishop EA, O.A. Koita, Weiner DB, De Groot A.S. **T-helper Multiepitope HIV-1 Vaccine Constructs Engineered by Computer-Assisted Selection**

- and Design elicit broad T cell responses in vivo in the presence of IL-15**; Poster Abstract AIDS Vaccine 2005, 09/05, Montreal, Canada.
80. D Rivera, C Boren, E.A. Bishop, W. Martin, M. Lally, KA Mayer, A.S. De Groot, **Mapping and confirming highly conserved HLA B7-restricted epitopes for the GAIA vaccine**. Poster Abstract AIDS Vaccine 2005; 09/05, Montreal, Canada
 81. J.A. McMurry, O.A. Koita, D. Dabita, I. Mahamadou, M. Tall, A.S. Dao, A. Tounkara, W. Martin, A.S. De Groot. **Confirmation of Immunogenic Consensus Sequence T cell Epitopes for the GAIA Cross-Clade HIV Vaccine In Bamako, Mali**. Poster Abstract AIDS Vaccine 2005, 09/05, Montreal, Canada.
 82. E.A. Bishop, L. Marcon, W. Martin, OA Koita, M. Lally, KA Mayer, A.S. De Groot. **Cross-presentation of Confirmed A3 supertype T cell Epitopes selected for the GAIA Cross-Clade HIV Vaccine**. Poster Abstract AIDS Vaccine 2005, 09/05, Montreal, Canada.
 83. Marcon L, Martin W, Bishop EA, Rivera D, Lally, M, Kutzler M, Weiner DB, Mayer, KH, De Groot A.S. **Expanded T cell response repertoire achieved by a HLA A2 multi-epitope cross-clade HIV vaccine in the presence of IL-15**. Poster Abstract. AIDS Vaccine 2005. 09/05, Montreal, Canada.
 84. De Groot, AS, Kone, M, Koita, OA, Marcon, L, Martin, W, McMurry, JA, Rivera, D, Bishop, E, Lally, M, Mayer, KA, Kutzler, M, Weiner DB. **GAIA HIV Vaccine Development: Optimization of the Immunogens in Pre Clinical Studies**. Oral Abstract, AIDS Vaccine 2005 (poster). 09/05, Montreal, Canada
 85. J Beckerman, N Vu, N Keita, M Koné, A De Groot, M Lally, K Mayer. **Potential Barriers to an HIV Vaccine Trial in Bamako Mali**. Poster Abstract, AIDS Vaccine 2005. 09/05, Montreal, Canada.
 86. Paul Mark Knopf, Sarah Kimball, William Martin, Anne DeGroot. **Class II HLA-binding peptides in C3d: possible role as co-signal 2 in B-cell help**. American Association of Immunologists, Boston 2006
 87. C Cohen, M Kone, A LaFauce, N Vu, M Lally, K Mayer, N Keita, A De Groot. **Knowledge, Attitudes, and Practices study in marketplaces of Bamako, Mali to inform the design of HIV vaccine trials**. Paper Number: 231.00. AIDS Vaccine 2006, Amsterdam, 08/06.
 88. AS De Groot, M. Goldberg, D Rivera, JA McMurry, L Moise, M Kone, OA Koita, L Marcon, M Kutzler, M Lally, KH Mayer, DB Weiner, WD Martin. **2006 progress update on the GAIA HIV Vaccine: Broad coverage by HLA alleles and Geographic Location, Optimization of HIV Immunogens in Pre Clinical Studies**. Paper Number: 438.00. AIDS Vaccine 2006, Amsterdam, 08/06.
 89. L Marcon, L Moise, D Rivera, M Lally, M Kutzler, JA McMurry, WD Martin, DB Weiner, AS De Groot. **Elicitation of robust T cell responses in HLA DRB1*0101 transgenic mice by MHC class II compartment-targeted and untargeted HIV T helper multiepitope molecular constructs**. Paper Number: 441.00. AIDS Vaccine 2006, Amsterdam, 08/06.
 90. Sueker J.J, Bernard K, Colton E., Paris J., Wohl D., De Groot A.S. **Provider perspectives about the standard of HIV care in correctional settings and comparison to the community standard of care: How do we measure up?** World AIDS Conference. Toronto, 2006.
 91. C Cohen, M Koné, A LaFauce, N Vu, M Lally, K Mayer, N Keita, AS De Groot. **Knowledge, Attitudes, and Practices study in marketplaces of Bamako, Mali to inform the design of HIV vaccine trials**. World AIDS Conference. Toronto, 2006.
 92. AS De Groot, M. Goldberg, D Rivera, JA McMurry, L Moise, M Kone, OA Koita, L Marcon, M Kutzler, M Lally, KH Mayer, DB Weiner, WD Martin. **2006 progress update on the GAIA HIV Vaccine: Broad coverage by HLA alleles and Geographic Location, Optimization of HIV Immunogens in Pre Clinical Studies**. Paper Number: 438.00. AIDS Vaccine 2006, Amsterdam, August 2
 93. Marcon L, L Moise, D Rivera, M Lally, M Kutzler, JA McMurry, WD Martin, DB Weiner, AS De Groot. **Elicitation of robust T cell responses in HLA DRB1*0101 transgenic mice by MHC class II compartment-targeted and untargeted HIV T helper multiepitope molecular constructs**. Paper Number: 441.00. AIDS Vaccine 2006, Amsterdam.
 94. Sueker J.J, Bernard K, Colton E., Paris J., Wohl D., De Groot A.S. **Provider perspectives about the standard of HIV care in correctional settings and comparison to the community standard of care: How do we measure up?** World AIDS Conference. Toronto, 2006.

95. C Cohen, M Koné, A LaFauce, N Vu , M Lally, K Mayer, N Keita, AS De Groot. **Knowledge, Attitudes, and Practices study in marketplaces of Bamako, Mali to inform the design of HIV vaccine trials.** World AIDS Conference. Toronto, 2006.
96. Daniel Rivera, Christine Malboeuf, Julie McMurry, Leonard Moise, Bill Martin, Annie De Groot. **High Throughput validation of predicted T-cell epitopes conserved between Variola and Vaccinia: Development of a novel immunome based Smallpox vaccine.** Abstract Number: 241561. Poster presentation at the 6th Annual Meeting of the Federation of Clinical Immunology Societies (FOCIS 2006), June 1-5 in San Francisco, Calif.
97. Kimball SL, Rivera DS, Rodriguez C, McMurry JA, Martin W, and De Groot AS. **High Throughput validation of predicted T-cell epitopes in F. Tularensis: The development of a novel T-cell epitope based Tularemia vaccine.** Abstract Number: 241551. Poster presentation at the 6th Annual Meeting of the Federation of Clinical Immunology Societies (FOCIS 2006), June 1-5 in San Francisco, Calif.
98. Rivera DS, Kimball SL, McMurry JA, Moise L, Martin W, Marcon L, and De Groot AS. **High Throughput validation of predicted T-cell epitopes conserved between Variola and Vaccinia: Development of a novel immunome based Smallpox vaccine,** 9th Annual Conference on Vaccine Research, National Foundation for Infectious Diseases.
99. Wright C, Malboeuf CM, Rodriguez C, Rivera DS, Finucane D, Lee J, McMurry JA, Moise L, Gregory S, Martin W, and De Groot AS. **High Throughput Validation of Predicted T-cell Epitopes in F. Tularensis: The Development of a Novel T-cell Epitope Based Tularemia Vaccine;** Poster Abstract, 32nd Annual New England Immunology Conference, October 2006, Woods Hole, MA, USA.
100. Moise L., Rivera DS, J.A. McMurry, W. Kim, D. Lee, J. Pappo, E. Sordillo, S. Moss, W.D. Martin, and A.S. De Groot. **Targeted PCR confirmation of vaccine components conserved between human and mouse-adapted strains of H. pylori.** American Gastro Association meeting, May 2007 Washington DC. L.Moise presented poster/oral abstract.
101. Moise L, Rivera DS, McMurry JA, Kim W, Lee D, Pappo J, Sordillo E, Moss S, Martin W, and De Groot AS. **Potential immunogenicity of predicted epitopes conserved between human and mouse-adapted strains of H. pylori.** 10th Annual Conference on Vaccine Research, NFID, 2007 Baltimore, MD.
102. Moise L, Rivera DS, Malboeuf CM, Rodriguez C, McMurry JA, Goldberg M, Martin W, Frey S, Buller M, and De Groot AS. **Further progress on the immunome-based DNA prime / Peptide boost smallpox vaccine: Results from in vivo immunogenicity assays.** L.Moise presented poster/oral abstract. 10th Annual Conference on Vaccine Research, NFID, 2007. Baltimore, MD.
103. Rivera DS, Malboeuf CM, Rodríguez C, Lee J, McMurry JA, Moise L, Gregory S, Martin W and De Groot AS. **Protective effect of an epitope driven vaccine against F. tularensis: Survival of aerosol-challenged mice. Oral presentation.** 10th Annual Conference on Vaccine Research, NFID, 2007. Baltimore, MD. L.Moise presented poster/oral abstract.
104. Coulibaly K, Koita OA, Rivera DS, Moise L, Martin WD, De Groot AS. **Updated results from ongoing work on the GAIA HIV Vaccine: Recognition of class I and II-restricted epitopes in Bamako, Mali and Providence, USA.** CROI meeting, January 2008, Boston MA.
105. De Groot A.S. **IgG Tregitopes and AITD-ASATI: Antigen Specific Tolerance Induction in Autoimmune Thyroid Disease,** Poster presentation Tregs and Th17 Cells in Autoimmunity March 25-26, 2008. Washington, DC. LJ De Groot presented poster at the meeting.
106. De Groot A.S. **Updated results from ongoing work on the GAIA HIV Vaccine: Broad Recognition of class I and II-restricted epitopes and in vivo studies,** Poster presentation, Eleventh Annual Conference on Vaccine Research, National Foundation for Infectious Diseases. Baltimore, May, 2008.
107. De Groot A.S. **Positive Prediction of Immunogenic Vaccine Candidate Epitopes and Progress on the Development of an IDV Vaccine for H. pylori,** Oral presentation and abstract, , Eleventh Annual Conference on Vaccine Research, National Foundation for Infectious Diseases, Baltimore, May 2008. L. Moise presented oral report and poster at the meeting.
108. Moise L, McMurry JA, W, Lee J, Buller M, Frey S Martin W, and De Groot AS. **Immunogenicity in vivo: Proof-of-concept study of an immunome-derived smallpox vaccine.** NFID Eleventh Annual Meeting on Vaccine Research. National Foundation for Infectious Diseases, 2008

- Baltimore, MD.
109. Yattasaye R, Tounkara K, Kone Y, Closson E, Perez Reyes A, De Groot A.S., **Hand of Hope (Here Bolo): A Peer Education Tool for Low Literacy Settings**. GAIA Mali, ASACOMSI, Millennium Villages Project, University of Bamako, GAIA Vaccine Foundation (USA). Poster and Abstract A-072-0179-00876 International AIDS Conference, Mexico City, **2008**.
 110. Tounkara, K., Kone Y, Closson E, Perez Reyes A, De Groot A.S. **Increased HIV and STI testing in Bamako, Mali using a push/pull intervention**. Poster CDC0368 accepted to the CD-ROM of the XVII International AIDS Conference, Mexico City, 3-8 August 2008.
 111. McMurry JA, Moise L, Rivera DS, Martin WD, Gregory SH, De Groot AS. **Development of a novel epitope-based vaccine that protects against lethal F tularensis LVS challenge**. Vaccine Technology, Portugal, **2008**.
 112. J.A. McMurry, L. Moise, W.D. Martin, S.H. Gregory, A.S. De Groot, **High Throughput validation of predicted T-cell epitopes in F. Tularensis: The development of a novel T-cell epitope-based Tularemia vaccine** Rhode Island Research Alliance Symposium on June 3, **2008** at the RI Convention Center.
 113. De Groot A.S., L Moise, J McMurry, B Wu, J Desrosiers, C Eil, W Martin, LJ De Groot. **IgG Tregitopes and AITD-ASATI: Antigen specific tolerance induction in Autoimmune Thyroid Disease**. Rhode Island Research Alliance Symposium on June 3, **2008** at the RI Convention Center.
 114. J. McMurry, L. Moise, W. Martin, De Groot A.S.. A call to humoral and cellular arms: A case for enlisting cognate T cell help to develop broad-spectrum vaccines against influenza. Sixth World Congress on Vaccines, Immunisation and Immunotherapy, 23-25 September **2008**: Milan, Italy.
 115. Anne S. De Groot, M.D, Leonard Moise, Yan Su, Julie A McMurry, William D Martin and David W. Scott. **IgG-Derived Tregitope Peptides Suppress T Cell Responses in Vitro and in Vivo**. Oral Presentation 677, 50th annual Meeting of the American Society for Hematology. December 6-10, **2008**. San Francisco, California.
 116. Leonard Moise, Ph.D, Jonathan Skupsky, Ryan Tassone, Julie A McMurry, William D Martin, Anne S. De Groot, and David W. Scott. **De-Immunezation of Human Factor VIII: Identification of Epitopes in the C2 Domain**. Poster 1030, 50th annual Meeting of the American Society for Hematology. December 6-10, **2008**. San Francisco, California.
 117. Shuo Li, Stefan Floess, Gaudieri Silvana, Andrew Lucas, Alf Hamann, Matt Ardito, Anne S. De Groot, William Martin, and Eric J. Gowans. **Role of Tregs: Insights for the design of improved Hepatitis C vaccine**. Poster 128. 2nd Global Vaccine Congress, Boston Massachusetts, Dec 7-9 **2008**.
 118. J. McMurry, K. Coulibaly, L. Moise, J. Desrosiers, R. Tassone, O. A. Koita, W. Martin, De Groot A.S.. **The GAIA HIV vaccine progress report: broad recognition of class i and ii-restricted epitopes and in vivo studies**. Poster 127. 2nd Global Vaccine Congress, Boston Massachusetts, Dec 7-9 **2008**.
 119. L. Moise, W.D. Martin, J. Desrosiers, R. Tassone, J.A. McMurry, S.H. Gregory, De Groot A.S.. **Rapid development and validation of a t-cell epitope-based Tularemia vaccine for F. Tularensis**. Poster 125. 2nd Global Vaccine Congress, Boston Massachusetts, Dec 7-9 **2008**.
 120. L. Moise, JA. McMurry, J. Lee, J. Desrosiers, R. Tassone, M. Buller, S. Frey, W. Martin, De Groot A.S.. **A Venn vaccine: selection and validation of vaccinia-variola-conserved epitopes**. Poster 126. 2nd Global Vaccine Congress, Boston Massachusetts, Dec 7-9 **2008**.
 121. M. Ardito, De Groot A.S., J.A. McMurry, L. Moise, W. Yang1, W.D. Martin. **EpiMatrix: Tool for Accelerated Epitope Selection and Vaccine Design**. Poster 133. 2nd Global Vaccine Congress, Boston Massachusetts, Dec 7-9 **2008**.
 122. Karamoko Tounkara, Yssouf Kone, Ben Aboubacar, Ousmane Koita, Sankare Moussa, Dolo Ibrahima, Siby Fanta, and Anne S. De Groot. **Knowledge, Attitudes, Practices and Willingness to Participate in HIV Vaccine trials among urban residents of Bamako, Mali, in West Africa**. Abstract accepted to Keystone HIV Vaccine conference, March 2009.
 123. De Groot A.S., W. Yang, L. Moise, J. A. McMurry, J. Desrosiers, W. Martin; **A Novel Compound for the Treatment of Allergy and Autoimmune Diseases** . Accepted Abstract, AAI, March 13-17, Washington, DC. 2009.
 124. TOUNKARA Karamoko, KONE Youssouf, KOTY Zoumana, ABOUBACAR Ben, WERWIE

- Timothy, DE GROOT Anne S. Patient adherence to HIV treatment and prevention in the Centre de Santé Communautaire de Sikoro, Bamako, Mali. Poster and Abstract 0294. 4th International Conference on HIV Treatment Adherence, Miami FLA, April 2009.
125. L Moise; H Veelken; W Yang; C Weber; J McMurry; W Martin; A De **Groot De-tolerization of anti-DEC-205 for HIV subunit vaccine delivery.** HIV Immunobiology: From Infection to Immune Control (X4) March 22 - March 27, 2009 Keystone Resort, Keystone, Colorado. Poster Number: 2095.
126. L Moise; J Desrosiers; W Martin; A De Groot; J McMurry; C Weber **Effective design of T-cell driven vaccines applied to the GAIA HIV vaccine: Advances in vaccine design based on current preclinical success** Prevention of HIV/AIDS (X3) Dates: March 22 - March 27, 2009 Keystone Resort, Keystone, Colorado, Poster Number: 2036.
127. Daniel J. Hui, Gary Pien, Etiena Basner-Tschakarjan, Federico Mingozi, Jonathan D. Finn, Bill Martin, **Anne S. De Groot**, Katherine A. High. Antigen-specific modulation of CTL responses triggered by AAV-capsid epitope presentation on transduced hepatocytes. American Society of Gene Therapy.
128. F D'Addio, O Boenisch, T Watanabe, **A De Groot**, M H Sayegh and N Najafian. Immunomodulatory functions of a novel IgG Fc-derived Peptides, Tregitopes, in alloimmunity Transplantation Research Center-Brigham & Women's Hospital and Children's Hospital, Boston and Epivax inc., Providence. Abstract accepted, Young Investigator Award (D'Addio) American Transplant Conference (ATC) 2009.

Invited Presentations • Infectious Diseases, Immunopathogenesis, Vaccines

1. **Tuberculosis: Epidemiology and Treatment in the 1990's**, Pulmonary Rounds, St. John's Hospital, Lowell MA, 12/91.
2. **T Cell Responses to Mycobacterium tuberculosis in the HIV-infected Host**, Modern Approaches to New Vaccines, Cold Spring Harbor Laboratory, 09/92.
3. **Tuberculosis: Multi Drug Resistant Tuberculosis and Drug Therapy**, Pulmonary Rounds, St. John's Hospital, Lowell MA, 12/92.
4. **Multi Drug Resistant Tuberculosis**, Massachusetts Association of Physician's Assistants Annual Meeting, Falmouth, MA, 10/92.
5. **Immunopathogenesis of an Epidemic: TB and HIV infection**, Invited Speaker. Grand Rounds, Lemuel Shattuck Hospital, Boston MA, 01/93.
6. **Two Novel Computer Driven T Cell Epitope Prediction Algorithms for Vaccine Development** Invited Speaker. Brown University Immunology Seminar, Brown University, Providence, RI, 09/94.
7. **Algorithms for mycobacterial vaccine development**, Invited Speaker. International symposium on Bovine TB in Animals and Human Beings, USDA/NIAID, NIH, 05/95.
8. **A novel algorithm for the efficient identification of T cell epitopes: prediction and testing of candidate TB vaccine peptides in genetically diverse populations**, Invited Speaker. Cold Spring Harbor meeting on Vaccines for Infectious Diseases, 09/95.
9. **Computer Algorithms for Vaccine Development**, Invited Speaker. Biology and Technology Seminar: Boston University (Dr. Charles Delisi, host), Boston MA, 09/95.
10. **Computer Algorithms for TB Vaccine Development**, Invited Speaker. Public Health Research Institute (Dr. Marilla Gennaro, host), New York, 10/95.
11. **Evolution of HIV Quasi Species: Response to Immune Pressure?** Invited Speaker. Aaron Diamond AIDS Research Center (Dr. Rick Koup, host), New York City, NY 11/95.
12. **EpiMatrix algorithm, reagent for HIV vaccine research**, Invited Speaker. Molecular Approaches to Vaccines for Infectious Diseases, Cold Spring Harbor Laboratory, New York 09/96.
13. **Comstock Conference on Epidemiology and Control of TB: Vaccines & TB Control**, Invited Participant, Baltimore Maryland; organized by Phil Hopewell, UCSF: 06/96.
14. **Matrix based prediction of MHC binding peptides**, Division of AIDS Spring workshop on HIV Variability and Cellular Immune Recognition, Bethesda, Maryland, 04/96.

15. **Epitope prediction for HIV vaccine development**, Harvard AIDS Institute, HIV Vaccines for Developing Countries: Antigen Design, Boston, Massachusetts, 04/96.
16. **CTL workshop: Computer driven epitope prediction for HIV vaccine development, NCDVG conference on HIV Vaccine development**, Invited Speaker. CTL workshop. (Jim Bradac, DAIDS Program Officer). Bethesda, Maryland, 02/96.
17. **Computer Algorithms for Cancer Vaccine Development**, Invited Speaker. Wistar Institute (Dorothee Herlyn, host), Philadelphia, Pennsylvania, 01/96.
18. **Computer Algorithms for TB and HIV Vaccine Development**, Invited Speaker. Department of Immunology (Dr. David McMurray, host), Texas A & M University, College Station Texas, 01/96.
19. **Computer Algorithms for HIV Vaccine Development**, Invited Speaker. HIV Research Unit, (Drs. Brigitte Autran, Anne Hosmalin, hosts) Hôpital Pitié-Salpêtrière, Paris, France, 06/96.
20. **Computer algorithms for TB vaccine design**, Invited Speaker. Pasteur Institute (Dr. Brigitte Gicquel, host), Paris, France 09/97.
21. **Computer-driven Design of new HLA-based vaccines for HIV**, Invited Speaker. Partners AIDS Research Center (Dr. Bruce Walker, host), Massachusetts General Hospital, 02/97.
22. **Symposium on Immunogenicity of Recombinant Human Proteins. EpiMatrix: Prediction of MHC ligands**, Invited Speaker. Genentech (Dr. Gene Koren, host), South San Francisco, 03/97.
23. **Epitope Predictions for TB vaccine development**, Invited Speaker. Global Tuberculosis Programme for Vaccines and Immunization/Vaccine Research and Development conference, "Definition of Strategies for an optimal use of Information resulting from Mycobacterial genome sequencing" at the World Health Organization Headquarters (Dr. John Foulds, organizer), Geneva 09/97.
24. **TB and HIV vaccine development**, Invited Speaker. Infectious Disease Conference (Dr. Jennifer Daly, Host) TB/HIV vaccine development, Worcester MA, 03/98.
25. **From Genome to T Cell: Searching for Agretopes**, Invited Speaker. Microbial Genomes conference, sponsored by the Institute for Genomic Research (TIGR) (Dr. Clare Fraser, host), Chantilly VA, 01/99.
26. **HIV Vaccine Development** (speaker on panel, presenting poster, Dr. Doug Nixon, panel chair) 6th conference on Retroviruses and Opportunistic Infections, Chicago, Illinois, 02/99.
27. **Epitope Predictions and Vaccine Testing**, Invited Speaker. EEC committee on the Ethical and Legal Applications of Vaccines (ELAV, (R. Whalen, host), Paris, France. 01/99.
28. **Bio informatics approaches to Vaccine Development for TB and HIV**. Invited Speaker. DASTLR, Center for Disease Control and Prevention, Immunology, (Dr. Janet McNicholl, host), Atlanta Georgia, 02/99.
29. **Bio informatics approaches to Vaccine Development for HIV**, Invited Speaker. Emory Center for Vaccine Research, (for the CFAR program, Dr. Mark Feinberg, host), Atlanta, Georgia, 02/99.
30. **Scientific Working Group on TB**, Participant. World Health Organization. (Dr. Paul Nunn, organizer), 02/00 Geneva, Switzerland
31. **From Genome to T cell: *In silico* predictions, *in vivo* veritas**. Invited speaker. **Symposium on Genomics and Vaccinology**. National Foundation for Infectious Diseases annual Vaccine conference. 04-05/00. (Regina Rabinovich, M.D.)
32. **Informatics Approaches to Vaccine Design**. Invited Speaker. Vaccines and Immunotherapeutics in the Third Millennium CSIRO, Lorne Australia, 03/00
33. **From Genome to Vaccine: Bioinformatics and Vaccine Design**. Invited speaker, Emerging Technologies Seminar, Center for Biomedical Inventions and Department of Internal Medicine & Cardiology University of Texas-Southwestern Medical Center at Dallas, 10/00. (Dr. Irene Rombel and Stephen Johnston).
34. **Genomic Approaches for Identifying Vaccine Candidates – Bioinformatics and Predictive Algorithms**. Invited Speaker. Special meeting on Otitis Media: New Approaches for Analysis, Treatment and Prevention, 11/00 (Dr. Thomas M. Johnson, NIDCD and Dr. Lauren Bakeletz)
35. **Scanning the TB Genome for DNA Vaccine Epitopes**. Invited Speaker. Sequella TB Vaccine Conference, 11/00, at Brown University (Carol Nancy, Director, SGTBF)
36. **TB pathogenesis, Vaccination, and Treatment update**. Invited Speaker. Anesthesiology Rounds, Kent Hospital 11/00 (Steve St. Aubin, Nurse Anesthetist).

37. **Genomics and Vaccinomics.** Invited Speaker. (Dr. Brad Goodner). University of Richmond, VA, 12/00.
38. **Cross-Clade Conservation of HIV-1 CTL Epitopes in the AidsVax® and Aventis CP205™ Vaccines** National Foundation for Infectious Diseases annual Vaccine conference. 04-05/01.
39. **Epitope-Driven Vaccines for TB and HIV infection,** Invited Speaker. (Dr. Kay McGowan) Grand Rounds, Lemuel Shattuck Hospital, Boston MA, 07/01.
40. **Epitope-Driven HIV Vaccine Development.** Invited Speaker (Jim Bradac, Senior Program Officer). Division of AIDS. 06/01.
41. **From Genome to T cell: Bioinformatics and Vaccine Design.** Invited Speaker (Dr. Marcelo Sztein). Lecture at Center for Vaccine Development. (Myron M. Levine, M.D., D.T.P.H. Director). University of Maryland School of Medicine. 06/01.
42. **Computational Algorithms to Predict T cell Immunogenicity,** Conference on Immunogenicity of Therapeutic Biological Products, Lister Hill Auditorium, NIH, Bethesda MD 10-11/01
43. **TB Genome to Vaccine (Bringing a Genome Derived TB Vaccine to Phase I Trials).** Sequella Foundation Vaccine 2001 Conference, Renaissance Conference Center, 11/01, Montreal, Canada.
44. **Developing an Epitope-Driven Cross-Clade HIV Vaccine using Bioinformatics** (Dr. Ray Dolan) Harvard HIV Vaccine Trial Unit, Harvard Medical School, 11/01.
45. Plenary Speaker: **From Genome to T Cell: Epitope-Driven Vaccine Design** Australian Society for Immunology Canberra Australia, 12/01.
46. De Groot A.S., R.G. Scheib, K. McGowan, D. Doughty, A. Bosma, W. Martin. **Building Vaccines from Immunogenic Consensus Sequences.** Oral Presentation S29: The National Foundation for Infectious Diseases: Fifth Annual Conference on Vaccine Research, 05/02, Baltimore, Maryland.
47. De Groot A.S., A. Bosma, C. Saint Aubin, H. Sbai, W. Martin **New Uses for Licensed Vaccines: Evaluation of the Japanese Encephalitis Virus Vaccine and the NY99 West Nile Virus Genomes for Cross-reactive T Cell Epitopes.** Oral presentation S35: The National Foundation for Infectious Diseases: Fifth Annual Conference on Vaccine Research, 05/02, Baltimore, Maryland.
48. A.S. DeGroot, H. Sbai, A McMurry, ML Gennaro, EJ Carter, W. Martin. **Analyzing Mycobacterium Tuberculosis Proteomes for Candidate TB Vaccine Epitopes.** Oral presentation S36: The National Foundation for Infectious Diseases: Fifth Annual Conference on Vaccine Research, 05/02, Baltimore, Maryland.
49. **Epitope mapping and vaccine design tools.** Invited Speaker, Novartis Foundation Symposium No.254 Immuno-informatics: Bioinformatic strategies for better understanding of immune function. 10/02, London.
50. **Harnessing the 'Immunome',** Invited Speaker, Phacilitate Vaccine Forum. 11/ 2002, Swiss Hotel, Boston, MA.
51. **Medical Update on Opening Pandora's Box: Is there Hope after AIDS?** Invited lecturer (Marlene Cuititar), 2002 Rhode Island Medical Women's Association's Educational Session on 11/02.
52. **Adolescent STDs: The situation with HIV and update on the GAIA HIV Vaccine.** Pediatric Grand Rounds, Hasbro and Rhode Island Hospital. Pediatric Grand Rounds (Rosalind Vaz), 02/03.
53. **From genome to vaccine: epitope mapping and vaccine design tools.** Invited Speaker, Computational Molecular Biology Series. Brown University [Franco Preparata]. 03/03.
54. **TB Vaccines: How long do we need to wait?** Tuberculosis Education Day 2003, Miriam Hospital. 05/03.
55. **In Silico Prediction of Immunogenicity.** Invited speaker (Tony Mire Suis). State of the art Analytical Methods for the Characterization of Biological Products and Assessment of Comparability Natcher Building, National Institutes of Health Bethesda, Maryland. 06/03.
56. **The GAIA HIV Vaccine: Vaccine for the World.** HIV Vaccines: Design, Potency and Delivery. The Knowledge Foundation. Conference on HIV Vaccines. Royal Sonesta Hotel. Cambridge, MA USA 06/03.
57. **Rapid Vaccine Design for Emerging Infections; EpiVax-Brown University Collaborations on**

- SARS, WNV, Smallpox, WNV, TB and HIV.** Rhode Island Department of Public Health (Grey Hayes, Ph.D) 09/03.
58. **TB vaccine development: practical design and implementation.** Presentation of work by invitation. (Norren Meehan, host). World Vaccine Congress, Lyon, 09/03.
59. **From TB Genome to Vaccine.** TB Vaccines for the World- TBV 2003, Montreal Marriott Chateau Champlain, Montreal, Canada. Presentation of work by invitation (TBVW, host). 09/03.
60. **From Genome to Vaccine: Faster, Better Design of Vaccines and Therapeutic Products through Immunoinformatics** Fall Connecticut Nanotech Initiative Conference, University of Connecticut, Storrs. CT. 10/03.
61. **Immunomodulation: In silico prediction and in vitro confirmation.** Immunogenicity testing for Protein-based therapeutics. Back Bay Hilton, Boston MA. 11/03.
62. **From Genome to Vaccine, A story about Microsoft, Motifs, and Molecules.** Colloquium Series, Biology Department at Rhode Island College (Charles Owens, host). 11/03.
63. **Accelerating Vaccine Design: new in silico epitope mapping methods.** Animal Research Service (ARS) Immunology Research Workshop Bethesda MD. (Cyril Gay, Host). 12/03.
64. **From immunome to vaccine: the epitope-driven vaccine approach.** 1st International Immunoinformatics Symposium - Immunology meets Bioinformatics. RIKEN (The Institute of Physical and Chemical Research), Yokohama Institute, Genomic Sciences Center (GSC), Bioinformatics Group. Session on Computer-aided vaccine and adjuvant development. Yokohama, Japan (Scientific Advisory Committee). (Christian Shonbach, Host). 02/04.
65. **From immunome to vaccine: the epitope-driven vaccine approach.** Singapore Immunoinformatics Symposium. From databases to vaccines. Institute for Infocomm Research, Singapore. (Vladimir Brusic, Host). 03/04.
66. **The Economics of AIDS and HIV Vaccine Development.** International Affairs Committee, Providence Rhode Island. (Charles Andrews, Host). 03/04.
67. **HIV Vaccine for all Clades.** (In French) Rencontre des Specialistes VIH/SIDA a Bamako. GAIA Vaccine Foundation / Fondation Merieux 01/04.
68. **Genome-derived Vaccines.** Southern Center for Vaccine Development. University of Texas Medical Branch, Galveston, Texas, 03/04.
69. **From Genome to Vaccine.** University of Rhode Island. BRIN seminar. (Joan Peckham, Host) 04/04.
70. **New Immunoinformatics Approaches to Emerging Infectious Diseases.** Boston University, Bioinformatics program. 04/04. (Charles DeLisi, Host).
71. **AIDS Vaccines and Prevention.** Provoking Hope, A Brown University AIDS Symposium. 04/04.
72. **The AIDS Pandemic** – with Ira Magaziner (chairman of the Clinton Foundation AIDS Initiative), Sandra Nusinoff Lehrman, M.D., (director of the Therapeutics Research Program Division of AIDS, National Institutes of Health). Brown University 135th Commencement Forum. Sayles Hall, The College Green, 05/04.
73. **Elicitation of de novo T-cell responses in mice immunized with an multi HIV-1 epitope cross-clade DNA vaccine** L. Marcon, W. Martin, J.I. Franco, E.A. Bishop, D. Rivera, M. Lally, M. Kutzler, D.B. Weiner, K.H. Mayer, De Groot A.S., Brown Medical School, EpiVax Inc., University of Padua, University of Pennsylvania (Providence, USA; Padua, IT; Philadelphia, USA); AIDS Vaccine 2004, Lausanne, 08-09/04.
74. De Groot A.S.. **Immunogenic consensus sequence T cell epitopes for a cross-clade HIV vaccine.** (Oral Presentation, Thursday, September 30, 15:45 S1-7) Fourth World Congress on Vaccines and Immunization, Tskukuba Science City /Tokyo, Japan, 09-10/04.
75. De Groot A.S.. From tuberculosis immunome to vaccine: **The epitope-driven vaccine approach.** (Invited presentation S2-4. Friday, October 1, 15:00) Fourth World Congress on Vaccines and Immunization, Tskukuba Science City /Tokyo, Japan, 09-10/04.
76. J. I. Franco, H. Sbai, S. Foti, J. McMurry, K. Forsythe, M. Steller, B. Martin, A. S. DeGroot. **Developing an Epitope-Based HPV Vaccine.** (Invited presentation W4-6, Saturday, October 2, 15:40), Fourth World Congress on Vaccines and Immunization, Tskukuba Science City /Tokyo, Japan, 09-10/04.
77. Anne S. De Groot, Bill Martin, Luisa Marcon, Elizabeth Bishop, Shawn Foti, Judith Franco, Daniel

- Rivera, Gandhi Drak and Paul Knopf. **From Immunome to Vaccine: the Epitope-Driven Vaccine Approach**, [Invited Presentation S1-6]. Fourth World Congress on Vaccines and Immunization, Tskukuba Science City /Tokyo, Japan, 09-10/04.
78. **From Immunome to Vaccine**. Statistical and Applied Mathematical Sciences Institute, Opening Workshop of the SAMSI Program Genomes To Global Health: Computational Biology Of Infectious Disease. Invited presentation (Host Tom Kepler, Duke University Medical Center. 09/04.
79. **TB Vaccine Development Update**. 9th Annual Meeting of the North American Region of the International Union Against Tuberculosis and Lung Disease to be held in Vancouver, British Columbia, Canada on 02/05. Vancouver IUALTb. (Hosts Jane Carter, Lee Reichman) 02/05.
80. **T epitope Revelations: Antigen Discovery (Vaccines) and De-Immunization (Therapeutics)** Salk Institute, San Diego, 03/05. Hosts Tony Hunter and David Roth.
81. **What's New? From Genomics to Vaccine Design; From Immunome to Vaccine.2nd** International Immunomics Symposium. Boston University, 03/05.
82. **Deimmunization - the DeFT (T cell epitope mapping) approach**. FDA-CDER, HFD-122, 03/05 (Amy Rosenberg, Director, Division of Therapeutic Proteins, CDER, host).
83. **FDA Science Forum** (04/05). Interactive Round Table Discussion Immunology: "Host-Product Interactions and Immune Responses" Moderator: Amy Rosenberg, Director, Division of Therapeutic Proteins, CDER. Topic: **"What can Therapeutics learn from Vaccines"**
84. Cohen, B. Pelsue, A. Lafaunce, M. Koné, P. Symonds, M. Lally, K. Mayer, N. Keita, De Groot A.S., **Survey of Knowledge, attitudes and practices related to HIV and HIV Vaccines in Urban Markets, Bamako Mali**. Oral presentation at the 3^{ème} Journees VIH/SIDA de Bamako, 2006, 01/07. Bamako Mali.
85. J Beckerman, N Vu, N Keita, M. Koné, M. Lally, K. Mayer, A .S. De Groot, **Potential Barriers to an HIV Vaccine Trial in Bamako Mali**. Oral presentation at the 3^{ème} Journees VIH/ SIDA de Bamako, 2006, 01/07. Bamako Mali.
86. O. Koita,, S. Dao, A. Tounkara, M. Koné, W. Martin, K. Mayer, M. Lally, J. McMurry, L. Marcon, De Groot A.S., **Update on the GAIA HIV Vaccine 01/06**. Oral presentation at the 3^{ème} Journees VIH/ SIDA de Bamako, 2006, 01/07. Bamako Mali.
87. De Groot. CBER Brown Bag Seminar – **Update on De-immunization Studies (DeFT)**. FDA-CDER, HFD-122, 01/06. (Amy Rosenberg, Director, Division of Therapeutic Proteins, CDER, host).
88. A. De Groot. **"Vaccine Development from Soup to Nuts - the GAIA HIV Vaccine Case Study,"** 04/06, Brown Medical School Infectious Disease Division Lecture Series.
89. Plenary talk –**"Sugar or Splice: New approaches to solve the Immunogenicity Problem"** Cell Culture Engineering X – Whistler Resort, Vancouver CA. 04/06. Invited by Konstantin Konstantinov, Bayer Inc.
90. **Cancer Grand Rounds "Immunoengineering of Cancer Vaccines and Therapeutics - Recent developments."** Alan Rosmarin, MD, Host. Rhode Island Hospital (Lifespan Hospitals, Brown University).
91. Invited Presentation. Annie De Groot, L. Moise, D. Rivera, J. McMurry, M. Goldberg, W. Martin. **Applied Epitope Mapping: Progress report on Epitope-driven BioDefense Vaccine Development for Smallpox and Tularemia**, International Immunomics Society Meeting, Budapest, 10/06.
92. Invited Presentation to University of Rhode Island Department of Cellular and Molecular Biology January 22 2007; **Upregulating and Downregulating Immunity from the T cell Perspective**. Jan 22, 2007 (Dr. Jay Sperry, Chair of CMB, URI).
93. Invited Presentation – Nature Biotechnology Winter Symposium, organized by the University of Miami, **Moving Computer Driven Vaccine Design in silico to in vivo**. Nature Biotechnology Miami January 28, 2007.
94. Organizer and Panelist, **Cutting Edge: Screening and Reengineering Biological Therapeutics** Track: Drug Discovery and Development, Bio 2007. Boston, June, 2007.
95. Invited Talk, **De-immunization of protein therapeutics**. Crossroad of Biotechnology 12th edition at the Biotechnology Research Institute of the National Research Council (NRC-BRI), June 13, 14 2007.

96. **De Groot AS.** CBER Brown Bag Seminar - **Update on De-immunization Studies (DeFT). January 2006 and March 2007**; hosted by Amy Rosenberg, Director, Division of Therapeutic Proteins. CDER, FDA-CDER, HFD-122. Baltimore, MD.
97. **De Groot AS. De-Immunization of Protein Therapeutics.** Crossroad of Biotechnology, Montreal, Canada. June 13, 14, 2007. Hosted by Biotechnology Research Institute, NRC/CNRC, Canada.
98. **De Groot AS. New Approaches to Immunogenicity: Screening, Reengineering and Modulation.** Antibodies Europe. 7-8 November 2007. Intercontinental Hotel, Vienna Austria.
99. **De Groot AS.** Invited Speaker. **Moving Computer Driven Vaccine Design From In Silico to In Vivo.** January 30, 2008; Nature Biotechnology Winter Symposium. Miami, FL.
100. De Groot, A.S. **A Novel Model of IVIG Immunosuppression: Activation of Natural Regulatory T cells by IgG-Derived Peptides**, Oral Presentation and poster, Keystone Symposium Tolerance in Transplantation and Autoimmunity (A8), Organizer(s): Jeffrey A. Bluestone, Abul K. Abbas, Laurence A. Turka and Diane J. Mathis, Keystone Resort, Keystone, Colorado, January 29 - February 3, 2008.
101. De Groot, A.S. Voices from the Vanguard Lecture Series, 2008: **HIV Vaccines: Time for a New Vision**, University of Georgia Atlanta. Grady College, University of Georgia. Host Professor Patricia Thomas, Knight Chair in Health and Medical Journalism at UGA's Grady College of Journalism and Mass Communication. April 15, 2008.
102. De Groot, A.S. **Rational design and regulatory issues of immunotherapeutic vaccines**, Vaccine and Immunotherapy Technologies, Sir Mark Oliphant Conference. Invited Presentation at the Australian Academy of Sciences, 4/8/08. Gus Nossal, Ian Fraser, Ian Ramshaw, Hosts. Canberra, Australia, April, 2008.
103. De Groot A.S. **Epitope-based Immunome-derived Vaccines: A Strategy for Improved Design and Safety**, Invited oral Presentation Eleventh Annual Conference on Vaccine Research, National Foundation for Infectious Diseases. Baltimore May **2008**.
104. De Groot A.S., **Epitope Driven GAIA HIV Vaccine Development**, Invited oral presentation, Vaccine Technology II. Barry Buckland, Host. Portugal, June, **2008**.
105. De Groot, A.S. Inflammation Research Association's 15th International Conference. 21-24 September, Chantilly, VA,
106. De Groot A.S., **The GAIA Vaccine Progress Report: Broad Recognition of Class I and II-Restricted Epitopes and in vivo Studies**. Invited oral presentation at the Vaccine Development conference, 2008, Pittsburgh, PA, September, **2008**.
107. De Groot A.S., **Computer-Driven Vaccine Design: From Concept to Reality**. Invited oral presentation, Vaccine Development 2008, Pittsburgh, PA, September, **2008**.
108. De Groot A.S. **Designing Personalized Vaccines for the 21st Century**. Invited oral Presentation. Sixth World Congress On Vaccines, Immunization and Immunotherapy. Milan, September, 2008.
109. De Groot A.S., **Relevance of T cell epitopes, effector T cells and regulatory T cells to the development of immunogenicity, and the accuracy of T cell epitope analysis for immunogenicity screening**. EpiVax, Inc. EMEA, London, UK October 29, 2008. Invited Presentation to the EMEA (European Medicines Agency). Christian Schneider (Host).
110. Anne S. De Groot, M.D, Leonard Moise, Yan Su, Julie A McMurry, William D Martin and David W. Scott. IgG-Derived Tregitope Peptides Suppress T Cell Responses in Vitro and in Vivo. Oral Presentation 677 selected from abstracts, 50th annual Meeting of the American Society for Hematology. December 6-10, 2008. San Francisco, California.
111. Anne S. De Groot, M.D.. **Immunogenicity Problems: A Paradigm Shift?** 19th annual Antibody Engineering: Immunotherapeutics for the 21st Century. December 7-11, 2008 - Sheraton San Diego Hotel and Marina - San Diego, California. Invited Speaker.
112. A.S. De Groot. **Immunoinformatics: How to design more effective vaccines and therapeutic proteins**. Regulatory Scientific Research Seminar Series, Centre for Biologics Research, Health Canada.
113. Anne De Groot, M.D. NOVA Southeastern University, David Thomas M.D. J.D. Host. sProtecting Our Next Generation. Immunology of Vaccines

Invited Presentations (Epidemiology/HIV/Women/Prison)

1. **Condoms and HIV Transmission**, Member of Panel, Falmouth, Massachusetts Public School Board Panel 07/92.
2. **Battering and the Cycle of Violence**; speaker on the panel "Locked up and Locked out; Women in Prison," Criminal Justice Institute conference, Harvard Law School. 12/93.
3. **Sexual Abuse and HIV Risk Taking among Incarcerated Women** HIV infection in Women, 1st National Meeting in Washington DC, 02/95; Women's Health Conference, Women & Infants Hospital, 09/94, Providence RI.
4. **HIV in Incarcerated Women**: HIV Update, and Rhode Island Hospital Nursing Update, 03/94, and New England HIV in Prisons Conference, Wesleyan College, 05/94.
5. **Sexual Abuse and HIV Risk Taking among Incarcerated Women** Invited Speaker. Women's Health Conference, Women & Infants Hospital, Providence RI, 09/94.
6. **HIV in Prisons**: Breakout group leader at the conference HIV Update: Current State of the Art, Brown University AIDS program conference, Butler Hospital, Providence, Rhode Island, 01/94.
7. **Risks for HIV infection among Incarcerated Women**, Invited Speaker. Yale AIDS Colloquium Series (YACS, Dr. Rick Altice, host) New Haven CT, 10/95.
8. **TB in Prisons workshop leader**, Invited Speaker. New England HIV in Prisons Conference (and conference co-organizer)Springfield MA, 10/95.
9. **HIV infection in Incarcerated Women: Priorities for Research**, Invited Speaker. Clinical AIDS Research; PRIM&R, Boston MA, 11/95.
10. **The Framingham model and Health Services for HIV seropositive women**, Invited Speaker. National Correctional Health Care conference, Washington DC, 11/95.
11. **Reducing the risk of tuberculosis transmission in the prison setting through the use of environmental controls (HEPA filters and UV lights)**, Invited Speaker. National Correctional Health Care conference, Washington DC, 11/95.
12. **HIV infection in Women**, Invited Speaker. Harvard AIDS Institute, Changing Times, Changing Strategies, AIDS in New England, 04/95.
13. **Sexual Abuse and HIV Risk Taking among Incarcerated Women**, Invited Speaker. HIV infection in Women, 1st National Meeting in Washington DC, 02/95.
14. **Sexual Abuse and HIV Risk Taking among Incarcerated Women**, National Drug Abuse Treatment Association conference, Newport RI, 11/95.
15. **Prisons: Inside/Out** Departments of Legal Studies, Political Science, and Women's Studies, UMass Amherst. Invited speaker, panel on Economics of Prison and Sentencing Issues, 03/96.
16. **Second Generation HIV/AIDS behind Bars** Invited speaker on panel with members of NORA, CDC, Federal Bureau of Prisons. NCCHC conference, Nashville Tennessee, 10/96.
17. **Sexual abuse and HIV Risk taking**, Invited Speaker. Suffolk County Jail, Massachusetts DPH HIV Case Managers meeting 01/96 and Planned Parenthood open seminar, Boston, MA, 04/96.
18. **1996 Prevention Summit, HIV Prevention Planning Co-Chairs Meeting**, CDC, Bethesda, Maryland, Panel, invited speaker: Effective Interventions to prevent HIV in Correctional Facilities, Atlanta, GA, 05/96.
19. **HIV and incarcerated women: Risks, Models of Care**, Invited Speaker. APHA panel on Prisons and Jails (Socialist Caucus) APHA meeting, New York City, 11/96.
20. **Closed Roundtable on HIV/Prison**, Invited Speaker. **Corrections Responds to HIV disease among Incarcerated Women**, Correctional HIV Consortium Winter Update, San Pedro, California, 01/97.
21. **Intensive workshop on HIV Behind Bars: Providing Education, Advocacy, Care and Services (Intensive workshop #1)** Invited Speaker. 9th Annual AIDS Update Conference, San Francisco, California, 03/97.
22. **Care and Treatment in Prisons and Jails (Panel #406)**, Invited Speaker. 9th Annual AIDS Update Conference, San Francisco, California, 03/97.

23. **State of the Art Workshop, Living with HIV behind prison walls: perspectives from a patient and her physician**, Invited Speaker. Women and HIV infection Conference, Los Angeles, California, 10/97.
24. **HIV infection among incarcerated women: Clinical Care**, Invited Speaker. New England School of Law, Symposium on the Treatment of Women Prisoners Boston, MA, 01/98.
25. **HIV infection among incarcerated women**, Invited Speaker. New England Medical Center series for HIV infected Women (sponsored by AIDS Action and the New England Medical Center) **Gender Politics of HIV/AIDS in Women** Boston, MA 06/98.
26. **What's different about Women living with HIV in Corrections**, Invited Speaker. (AIDS track talk on HIV infection among incarcerated women), National Commission on Correctional Health Care (National Meeting, 11/98).
27. **HIV Management in the Prison Setting: An Update**, Invited Speaker. NJ AIDS Education and Training Center and Correctional Medical Service, Newark, New Jersey, 12/98.
28. **Management of the HIV infected inmate**, Invited Speaker. Delaware AIDS Council Annual Meeting, Wilmington Delaware, 11/98.
29. **Management of HIV in Correctional Facilities** to HIV providers on site
 - South Carolina Women's Facility, Columbia, South Carolina
 - Central Florida Receiving Facility, Orlando Florida, 08/98, 11/98, 06/99, 02/01.
 - Delaware Department of Corrections, at the Delaware AIDS Council, 11/98.
30. Policy Action Network Briefing at the US Senate, Russell Office Building for Senate Staffers: **Breaking the Wall of Silence: Women, HIV/AIDS, and the Prison System**, Invited Speaker. 02/99.
31. **Prisoner Research** Invited Speaker. CCG Scientific Agenda Subcommittee conference call. Jeff Taylor, Chair CCG Scientific Agenda Subcommittee ACTG 04/00.
32. **HIV infection in Incarcerated Women** Invited Speaker. (CME lecture to physicians and health care practitioners attending HIV Update Course). University of Texas Medical Branch (Galveston Texas). 10/00, 08/01, 10/01.
33. **HIV Behind Bars** Director, CME accredited course for Correctional HIV providers, 06/01, organized by Montefiore Medical Center.
34. **HIV Management of Incarcerated Women**, Invited Speaker, Federal Bureau of Prisons Annual Nursing Conference, Raleigh, N.C., 04/02.
35. Organizer and Plenary Speaker, **Real Life Examples: Managing Infectious Disease in Corrections**. NCCHC annual conference, HEPP Preconference Symposium, 10/02.
36. **Post Exposure Prophylaxis of HIV infection**. HIV Minifellowship. University of Texas Medical Branch (David Paar, Host). Galveston, TX. 02/03.
37. Organizer and Plenary Speaker, **"Texas MiniFellowship" for Correctional HIV Providers**, 09/03. Providence, Rhode Island,
38. Organizer and Plenary Speaker, **Infectious and Transmissible Diseases in Correctional Settings**. NCCHC 10/03. Austin Texas. HEPP Report pre-conference symposium.
39. TB in Corrections. Prevention and Treatment of Infectious Disease in Corrections. **What Corrections-Based Staff Need to Know**. 12/03. (RIDOC and RI Brotherhood of Correctional Officers)
40. Emerging Issues in the Management of HIV Disease in Women (Rush U. Medical Center): The **Forgotten Many: HIV –seropositive Women in Prison, IDU and Adolescents**. Lecture and preparation of a monograph. 01/04. (Kim Smith MD, Rush UMC, host).
41. Incarcerated Women and HIV. Half-day seminar (3 lectures). **Women and HIV Overview, Mother to Child Transmission Prevention, and HIV: African Realities**. UTMB Galveston, 03/04. (David Paar, MD, host).
42. Incarcerated Women and HIV. **Women and HIV Overview, Mother to Child Transmission Prevention**. UTMB Galveston, 06/05. (David Paar, MD, host).
43. Incarcerated Women and HIV. **Women and HIV Overview**. UTMB Galveston, 06/06. (David Paar, MD, host).
44. Incarcerated Women and HIV. **HIV in Women Conference; Texas-Okla. AETC** Dallas, 04/08.

Grants: Principal Investigator (NIH and Foundation grants for research)**Total NIH funding to date: >\$13 Million Cumulative Directs and Indirects.**

Recently awarded		
7R01AI050528-04 JUVENILE DIABETES RES. FOUNDATION	PI: De Groot A.S. INDUSTRY GRANT PROGRAM.	09/21/07 – 10/1/2008 Direct Costs \$351,000;
<i>Title: ANTIGEN-SPECIFIC TOLERANCE INDUCTION (ASATI) FOR THE TREATMENT AND PREVENTION OF T1D</i> The goal of this project is to develop a treatment for juvenile diabetes..		
1R43DK081261-01 NIH/NIAID	PI: De Groot A.S.	04/01/2008 – 3/31/2010
<i>Title: T1D Tolerance Induction with Natural Treg Epitopes</i> The major goal of this project is to develop therapeutic to treat and prevent Type 1 diabetes		
Ongoing:		
7R01AI050528-04 NIAID	PI: De Groot A.S.	(no cost extn) 5/01/2002 - 4/30/2008
<i>Title: Epitope Driven HIV Vaccine Development</i> The goal of this project is to develop a vaccine of highly immunogenic conserved HIV epitopes.		
5R43AI058376-02 NIH/NIAID (SBIR Phase I)	PI: De Groot A.S.	(no cost extn) 05/26/2005 - 05/31/2008
<i>Title: Novel Smallpox Vaccine Derived from VV/VAR Immunome</i> The goal of this project is to develop a novel and safer smallpox vaccine derived from immunogenic T cell epitopes conserved in both VV and Var proteomes.		
5R43AI065036-02 NIH/NIAID (SBIR Phase I)	PI: De Groot A.S.	(no cost extn) 05/26/2005 - 05/31/2008
<i>Title: A Genome-Derived, Epitope-Driven H. Pylori Vaccine</i> The goal of this project is to develop safe and effective <i>H pylori</i> vaccine derived from conserved immunogenic epitopes.		
1R21NS054781-01A1 NINDS	PI: De Groot A.S.	3/1/2007 - 1/31/2009
<i>Title: Development of De-Immunized Botulinum Neurotoxin Type A for Dystonia</i> The goal of this project is to develop safe and effective De-immunized botulinum neurotoxin Type A for patients diagnosed with Dystonia.		
1R43HL088834-01 NHLBI	PI: De Groot A.S.	5/01/2007 – 4/30/2009
<i>Title: Epitope-driven deimmunization of Factor VIII</i> The goal of this project is to modify the constituent epitopes of FVIII so that it is a less immunogenic and more effective therapy.		
1R43AI075830-01 NIAID	PI: De Groot A.S.	9/01/2007 – 8/31/2009
<i>Title: Optimization of a Multivalent Tuberculosis Vaccine</i> The goal of this project is to develop safe and effective epitope based vaccine for TB.		
Pending Applications:		
1R43HL091694-01 NIH/NIAID	PI: De Groot A.S.	12/1/2007 – 11/30/2009
<i>Title: FVIII-ASATI: A new approach to inducing adaptive tolerance to FVIII</i> The goal of this SBIR Phase I application is to evaluate whether “antigen-specific adaptive tolerance induction” (ASATI),		

a novel approach to immunotherapy, can be applied to FVIII.		
1R43AI077263-01	PI: De Groot A.S.	12/1/2007 – 11/30/2009
NIH/NIAID <i>Title: HDM-ASATI: Method for Inducing Adaptive Tolerance to HDM Allergen with Tregitopes</i> The goal of this application is to demonstrate the utility and efficacy of antigen-specific adaptive tolerance induction (ASATI) to environmental allergens using natural regulatory T cell epitopes.		
1R21AI078355-01	PI: L Moise	04/01/2008 – 3/31/2010
NIH/NIAID <i>Title: Novel function of complement C3d as a helper T cell target</i> The goal of this R21 application is to evaluate whether the complement component C3d provides T help to B cells that recognize polysaccharide antigens.		
1R21AI078380-01	PI: L Moise	04/01/2008 – 3/31/2010
NIH/NIAID <i>Title: A Non-Tolerogenic Anti-DEC-205 Vaccine Platform</i> The major goal of this project is to develop an improved vaccine platform for targeted antigen delivery to dendritic cells using a novel non-tolerogenic anti-DEC-205 antibody.		

Previous Grants (Chronological)

01/01/92-06/30/92. **Reactivation Tuberculosis in HIV Infection**

NIH: K08 AI 01068.

Total Direct Costs \$68,000, Indirect Costs \$40,500.

PI: De Groot (Brown University)

1/1/93-12/31/93 Rhode Island Foundation (title not available)

Rhode Island Foundation RIF 4238.

Total Direct Costs \$4,822 (no indirects).

PI: De Groot (Brown University)

07/01/92-06/30/94 **Natural and predicted antigens for TB immunotherapy**

NIH: R01 AI 35271

Total Direct Costs Year 1 (continuation of K-08) Direct Costs \$174,813, Year 2 \$171,904; Indirects Year 1, \$40,366, Year 2 \$43,676.

PI: De Groot (New England Medical Center and Brown University)

7/1/93-6/30/94 **Heiser Program for Research in Leprosy and Tuberculosis**

Heiser Foundation.

Total Direct Costs \$16,659; Indirect Costs \$3,332.

PI: De Groot (Brown University)

1/1/94-12/31/94 Rhode Island Foundation (title not available)

Rhode Island Foundation RIF 3192

Total Direct Costs \$4,840 (no indirects).

Gabriel Meister PI, De Groot Co-investigator (Brown University)

9/01/95-7/01/95 **Recognition of putative TB vaccine epitopes by sub Saharan Africans**

NIH: R03 TW00552-03 S1USAID Supplement.

Total Direct Costs \$ 20,000; Indirect Costs \$0.
PI: De Groot (Brown University)

8/21/97-5/31/99 **Sequencing the Mtb Genome**; Supplement EpiMatrix analysis of Mtb Genome
NIH: R01 AI 40125
Total Direct Costs \$82,694; Indirect Costs \$41,381.
PI: De Groot (Brown University)

10/1/98-6/30/99 **Epitope-based Vaccines and Therapeutics, accelerating design and delivery Rhode Island Center for Cellular Medicine** Phase I grant.
Total Direct Costs to TBHRL: \$75,000; Indirect Costs \$24,894
PI: De Groot, M. Gonzalez Co-investigator at TBHRL(Brown University)

10/01/95-09/30/99 **TB peptide epitope project, MRC Laboratories, The Gambia**
NIH: R03 TW00552
Total Direct Costs \$68,000; Indirect Costs \$40,500.
PI: De Groot (Brown University)

0/1/99-03/1/00 **Epitope-driven HIV vaccine targeting dendritic cells**
NIH: SBIR Phase 1 R43 AI 46212. Subcontract to Brown.
Total Direct Costs to TBHRL: \$29,684; Indirect Costs \$16,920
PI: De Groot, Dr. M. Gonzalez Co-investigator at TBHRL (Brown University)

03/01/00-12/31/00. CFAR Pilot Project. **Validation of candidate HIV vaccine T cell epitopes**
NIH: CFAR Pilot Project
Total Direct Costs \$13,005. 30,000; Indirect Costs 7,500
PI: De Groot, Dr. M. Gonzalez Co-investigator at TBHRL (Brown University)

10/01/99-09/30/01 **A Cross-Clade Approach to HIV Vaccine Development**
NIH: R21 AI 45416
Total Direct Costs \$446,047; Indirect Costs \$147,383
PI: De Groot (Brown University)

07/01/01-12/30/01 **Diagnostic Reagents for Emerging Infectious Diseases**
NIH/NIAID: **SBIR** Phase I to EpiVax
TBHRL Total Direct Costs \$40,000; Indirect Costs \$22,000 (total grant \$100,000)
PI: De Groot (Brown University) (Formerly PI at EpiVax; current PI at EpiVax is Bill Martin)

4/1/98-03/31/02 **HIV-1/HIV-2 Epitope project, The Gambia, West Africa**
NIH: R03 TW00973
Total Direct Costs \$70,569; Indirect Costs \$41,431.
PI: De Groot (Brown University)

7/0/97-06/30/02 **HIV Evolution and Cellular Immune Response**
NIH: R01 AI 40888
Total Direct Costs \$899,249; Indirect Costs \$283,029.
PI: De Groot (Brown University)

12/30/01-08/30/02 Epitope-driven HPV Vaccine Targeting Dendritic Cells

PI: De Groot (Brown University) (PI at EpiVax is Bill Martin)

NIH/NCI: **SBIR** Phase I to EpiVax

TBHRL Total Direct Costs \$67,382; Indirect Costs \$32,708 (total grant to TBHRL \$100,090)

03/01/99-04/30/03. Immunoregulatory Defects in Hemophilia

NIH: R01 HL 042257

Year Two Total Direct Costs \$13,416; Indirect Costs \$8,049

PI: John Sullivan, UMass Worcester, De Groot, subcontractor (Brown University)

03/01/04-03/01/05 Collaborative for Vaccine Research and Design (CVRD)

PI De Groot (Brown)

Office of the Vice President of Research, Brown University

Research seed Funding (\$75,000).

05/01/03 – 08/01/03 GAIA Vaccine Project –Bamako, Mali West Africa

PI Marcon (Brown) / Koita (FAST, Bamako Mali)

Campbell Foundation (to A. De Groot at GAIA Vaccine Foundation)

Total Direct and Indirect Costs \$75,000.

3/1/00-03/1/03 Bringing Epitope Driven Vaccines into Phase I Trials

Sequella Global TB Foundation **SGTBF Core Scientist Award**

PI: De Groot (EpiVax)

Total Direct Costs \$900,000 to EpiVax

TBHRL Subcontract: Total Direct Costs: \$300,000 (expected/3 years); Indirect \$150,000.

Other Grants (Co-investigator or subcontract)

1993-1994 TB Cure Rate at a Public Hospital in Massachusetts

(mentor for Massachusetts Nursing Association Award/ Nellie Castillo R.N.) (New England Medical Center)

1992-1993 CPCRA Study of TB prophylaxis for HIV-seropositive patients

(TB/PPD+, 004) (subcontractor to Boston Department of Health and Hospitals/CDC) (NEMC)

1998-2002 CD8⁺ T-Cell Response in Resistance to Tuberculosis

PI Dr. Yuri Bushkin, Public Health Research Institute, NYC, NY (Brown University)

Patents

- 1) Brown University Research Foundation reference 1994-14; **"HIV Vaccine Candidate Peptides"** This application claims an HIV vaccine and includes 672 peptide sequences. Filed as a provisional July 10, 1998 (60/092,346) and as a full utility application July 9, 1999 (09/351,036). Most recent action was a response to USPTO on July 10, 2001. No foreign filings. Inventors are Meister, Roberts, Berzofsky and DeGroot.
- 2) Brown University Research Foundation reference 1998-22; **"Human T Cell Response to MHC-Binding Motif Clusters"** This application claims a TB vaccine and includes a list of 28 peptides. Filed as a provisional March 20, 2000 (60/190.834) and as a full utility application (09/813,333) March 20, 2001. Filed as PCT (foreign) application on March 20, 2001. Inventor is DeGroot.
- 3) Brown University Research Foundation reference 1998-34; **"A Regional HIV Vaccine for India"** Filed as a provisional application (60/115,145) on January 8, 1999. Combined with (1) above when utility application was filed.
- 4) Brown University Research Foundation reference 1999-09: **"A "World-clade" HIV-1 Vaccine"** Filed as a provisional application (60/130,677) on April 23, 1999. Combined with (1) above when utility application was filed.
- 5) Brown University Research Foundation reference 2000-32; **"Methods of Determining West Nile Virus Epitopes and Method of Using the Same"** Filed as provisional application (60/272,132) on 02/2001.
- 6) US. Government application Patent 02721225.7 2119 US0206314; Date of Filing 01 03 02 **Immunogenic HIV peptides for use as reagents and vaccines.** (Janet McNicoll, CDC).

University Teaching Roles

Undergraduate/Graduate Courses

Medical School	Pathology of Infectious Diseases	1997, 1999
Bio 160 Brown U.	Vaccines for Infectious Disease	with Professor Knopf Co-course leader Spring 1995, 1997, 1999, 2000, 2004, 2005, 2006
Biotechnology	Vaccine Development	For Prof. Lysaght/Hawrot 1998, 1999, 2001, 2002, 2003, 2004
Immunology (Bio 53)	HIV vaccine development	For Prof. Knopf Fall 1998-2002, For Prof. Yap, Fall 2003, 04, 05
Women's Health		HIV among women in prison For Prof. Lapan Fall 1997

FLASC Summer Fellowship

Wendee Gozansky, M.D. MPH Tufts University Class of 1995,	Epidemiology of Toxoplasma Reactivation In HIV seropositive patients
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Schwietzer Fellowship

Lisa A. Pratt, Class of 1997 M.D., MPH Tufts University

Discharge planning for HIV +
Incarcerated women

Brown University Undergraduate Senior Honors Thesis, Primary Mentor

Jessica Stevens	1994	HIV/Women Epidemiology Res.
Kimberly Fisher	1994	HIV Immunology Res.
Caroline Roberts	1994	HIV/Vaccines Immunology
Brian Edelson	1995	TB/Vaccines Immunology Howard Hughes Fellow
Tamar Renaud	1995	Prisons Epidemiology Howard Hughes Fellow
Stephanie Gampper	1996	TB/HIV Epidemiology Research Undergraduate Teaching and Research Award
Lieschen Quiroz	1996	TB/Vaccines (Philippines) Undergraduate Teaching and Research Award
Michelle Ferdinand	1996	HIV Epidemiology Research
Neal Muni	1996	Biotech Applications
James Robert Schafer	1997	HIV vaccine research Saihou Sabelleh HIV Res. Fellowship
Igor Brichkov	1998	TB vaccine research
Jean David Barnea	1998	HIV vaccine research (India)
Tony Breu	2000	TB vaccine research (summer)
Natasha Chinai	1998-2001	HIV vaccine research India/ HIV2) Summer Howard Hughes Fellow
Kara Chew	2000-2001	TB vaccine research UTRA 2000
Brian Tuch	2000-2001	HIV evolution, UTRA 2000
Andrew Girvin	2000-2001	DNA vaccines, UTRA 2000
Ankanksha Mehta	2001-2002	DNA vaccines UTRA 2001
David Heller	2001-2002	HIV evolution, UTRA 2001
Basim Khan	2001-2002	Dendritic Cells UTRA 2001
Nicole Pattamanuch	2002-2003	Dendritic Cells/HPV
Rebecca Doctors	2002-2003 UTRA 2004	EBV epitopes/UTRA 2002,
Shirley Chan	2003-2005	Testing a DNA based HPV vaccine. UTRA 2002,03
Sangeeta Tripathi	2003-2004	KAP related to Vaccines, Bamako, Mali
Delphine Huang	2004	MTCT in Bamako, Mali Barbara Anton Internship Grant. (Pembroke Center)

Sara Kimball	2004-2005	EBV epitope mapping
Shuyi Zhang	2004-2005	Listeria-vectored vaccines
Jessica Beckerman	2004-2005	KAP related to Vaccines, Bamako, Mali (Royce)
Caitlin Cohen, Brendan Pelsue, Alexa Lafaunce	2005-2006	KAP study in Bamako Markets Bamako, Mali (Royce)
Erica Trauba, Rebecca Fox, Alexandra Dick.	2005-2006	Oral History Project, Sikoro Women's Group, Bamako Mali
Kathleen Bernard	2005-2006	Standard of Care in Prisons Comparison to Community SOC Providence (IDCR) 2006
Madeline DiLorenzo (Brown 2008)		Smoke Fellowship Five Finger Peer Ed Program Bamako, Mali 2006
Bay Hudson (Harvard 2007)		Five Finger Peer Ed Program Bamako, Mali 2006
Erica Trauaba, Hong Troung, Megan Billman, Fiona Heckscher (Brown 2008)		HIV testing and Counseling Bamako, Mali 2006
Jared Meshekow and Victoria Albina (BU, 2008)		Electronic Medical Records (Labtracker Project) Sikoro Clinic, Bamako, Mali, 2006
Katie Fletcher (Mt Holyoke, 2007)		Immunoinformatics and Immunology Internship EpiVax, Inc. Providence, RI 2006
Tobias Cohen (Brown 2010)		Immunoinformatics, Heterologous Immunity
Sanjay Trehan (Brown 2010)		Immunoinformatics, Heterologous Immunity
Dr Luna Sharma (Pediatric ID Fellow)		Immunoinformatics, Regulatory T cells
Katie Harty (Brown 2009)		Business Development Intern

Foreign Study Fellowship, Brown University Independent Study, Primary Mentor

Krista Dong	PLME 2000	TB/Vaccines Immunology The Gambia, W. Africa, 1995
Tevis Howard	Class of 2007	Kenya – Malaria - 2006

Fogarty AIDS Research Training Program (International Health Institute) Trainees

Mario O. Santiago		U. Philippines 1995 HIV evolution/ EpiMer Algorithm
Julius Hafalla		U. Philippines 1995 TB vaccines; MHC PCR/ EpiMer
Winston Banya		MRC Research Labs 1998 HIV 2 vaccine development
Ousmane Toure	(Visiting Fellow from Tulane U)	AIDS Vax Conservation in Mali

Other Visiting Fellows

Constanze Weber, Ph.D. Candidate

University of Frieberg
Hendrik Veelkens, Sponsor
Dec205 Deimmunization project

Organizational responsibilities: panels and conferences

(NCCHC 1) 2nd Generation AIDS behind Bars, at the National Commission on Correctional Health Care Conference, San Antonio, Texas, Nov 9, 1997: Set agenda, invited speakers, hosted.

NE Regional Symposium on HIV infection among incarcerated women Brown AIDS Program/ NEAETC Providence RI, Nov 5, 1997. Course Director. Raised funding, set agenda, invited speakers, hosted, published proceedings.

Current Strategies for the Management and Prevention of HIV in Corrections, HEPP (HIV Education/ Prison Project) at the Brown AIDS Program /Yale HIV/Prison Program, New York City, NY October 20-21 1998: Course Director (with Dr. Rick Altice). Raised funding, set agenda, invited speakers, hosted.

HIV Treatment Update for Prisons and Jails, HEPP (HIV Education/ Prison Project) at the Brown AIDS Program/NEAETC, Cambridge, MA, March 11, 1998: Course Director. Raised funding, set agenda, invited speakers, hosted.

Clinical Trials in Correctional Settings, HEPP (HIV Education/ Prison Project) at the Brown AIDS Program, Yale HIV/Prison Program and Center for Interdisciplinary Research on AIDS, Course Director. October 12-14, 1999. Raised funding, set agenda, invited speakers, hosted.

(NCCHC 2) 2nd Generation AIDS behind Bars, at the National Commission on Correctional Health Care Conference, Fort Lauderdale, Florida, Nov 6 1999: Set agenda, invited speakers, hosted.

(NCCHC 3) HIV/AIDS behind Bars, at the National Commission on Correctional Health Care Conference, St. Louis, MO, Sept 7-9 2000: Set agenda, invited speakers, hosted.

TB Vaccine 2000. Sequella Global TB Foundation, November 3- 5, 2000. Set agenda, invited speakers, hosted.

(NCCHC 4) Bridging the Gap, at the National Commission on Correctional Health Care Conference, Albuquerque, New Mexico, Nov 10, 2001: Set agenda, invited speakers, hosted.

(NCCHC 5) Real Life Examples, Managing Infectious Diseases in Corrections, at the National Commission on Correctional Health Care Conference, Nashville Tennessee, October, 2002: Set agenda, invited speakers, hosted.

(NCCHC 6) Managing Infectious and Contagious Disease in the Correctional Setting. at the National Commission on Correctional Health Care Conference, sponsored by HEPP Report (Infectious Diseases in Corrections), Brown University AIDS Program. Austin, Texas, October 4, 2003. Set agenda, invited speakers, Hosted.

(NCCHC 7) at the National Commission on Correctional Health Care Conference, sponsored by HEPP Report (Infectious Diseases in Corrections), Brown University AIDS Program. New Orleans, October 2004. Set agenda, invited speakers, Hosted.

Rencontre des Specialistes VIH/SIDA a Bamako. GAIA Vaccine Foundation / Fondation Merieux Jan 7, 8 2004. Organization, Invitation, Hosting, and Support (GAIA VF).

Rencontre des Specialistes II. GAIA Vaccine Foundation / Fondation Merieux Jan 11,12 2005
Organization, Invitation, Hosting, and Support (GAIA VF).

2nd International IIMMS Symposium Sponsors: Brown University and Boston University. Held at Boston University, March 8,9,10 2005. Organization, Invitation, Hosting, and Support (IIMMS/CVRD)

1st Annual Vaccine Renaissance, Rhode Island. June 7,8, 2005. Sponsored by the Collaborative for Vaccine Development, Brown University and Tech Collective. Organization, Invitation, Hosting, and Support (CVRD)

(NCCHC 8) at the National Commission on Correctional Health Care Conference, sponsored by Infectious Diseases in Corrections. Denver, October 2005. Set agenda, invited speakers, Hosted.

3eme Journees de VIH Bamako. GAIA Vaccine Foundation / Esther/Solthis. Jan 16, 17, 18, 2006
Organization, Invitation, Hosting, and Major Financial Support (GAIA VF).

WCVII 2006 Montreal. New Vaccines and Immunotherapeutics. The Fourth World Congress on Vaccines, Immunisation, and Immunotherapy. Board of Scientific Advisors.

2nd Annual Vaccine Renaissance, Rhode Island. June 7-9, 2006. Sponsored by the Collaborative for Vaccine Development, Brown University and Tech Collective. Organization, Invitation, Hosting, and Support (CVRD).

WCVII 2007 Dubai. New Vaccines and Immunotherapeutics. The Fifth World Congress on Vaccines, Immunisation, and Immunotherapy. Board of Scientific Advisors.

(NCCHC 9) at the National Commission on Correctional Health Care Conference, sponsored by Infectious Diseases in Corrections. Atlanta, October 2006.

4eme Journees de VIH Bamako. GAIA Vaccine Foundation / Esther/Solthis. Jan 17, 18, 19, 2006
Organization, Invitation, Hosting, and Major Financial Support (GAIA VF).

WCVII 2008 ITALY. New Vaccines and Immunotherapeutics. The Sixth World Congress on Vaccines, Immunisation, and Immunotherapy. Board of Scientific Advisors.

Journal Reviews

Journal of Infectious Diseases	1994
Human Immunology	1995
AIDS	1995
Tubercle (International Union Against TB and Lung Disease)	1997
Nature Biotechnology	1999-2006
Bioinformatics	2000-2006
Proteins: Structure, Function and Genetics	2001
AIDS Reader	2001-present (Editor)
AIDS Education and Prevention	2001
Trends in Genetics	2002

Emerging Infectious Diseases	2002-present (Editor)
Trends in Immunology	2003
Immunogenetics	2005
Viral Immunology	2005
Medicine and Health Rhode Island (Editor Vaccine Issue)	2007
Lancet	1999- present
Vaccine	2000- present

NIH Study Sections

Special Review Committee for NIAID: National Cooperative Drug Discovery Group for the treatment of Opportunistic Infections and AIDS	June 1993 / March 1994
Review Committee, Program Project U19 AI 40972 (Heifits, PI)	1998-2000

Press Articles and Interviews

Clad Against All Clades: Can vaccinomics build a world HIV vaccine? *The Scientist* Interview by Tom Hollon, September 18, 2000

The Price of Punishment *National Public Radio* Interview by Jennifer Schmidt, WBUR Prison Series, (WBUR, Boston) interview on Hepatitis C in Prison. December 20, 2000.

The Zealot. *Inc. Magazine* Interview by Thea Singer. Start Up Issue, January 2001.

R.I. lab veers from convention in AIDS study. *Providence Journal.* Front Page Interview by Felice Freyer, May 18, 2001

Open Letter from a Prison Doctor. *Positively Aware Magazine* (story on HIV infected incarcerated women). July/August 2001.

Brown scientist at work on AIDS vaccine. *Providence Journal Providence, R.I.* May 14, 2002
Felice Freyer, May 14, 2002.

Interview "**Amazing Women**". WPRO, (FM Radio Talk Show) October 26, 2003. Deb Ruggiero, Host.

"Best and the Brightest 2003" (Science and Industry). *Esquire Magazine*, December 2003. "My AIDS Vaccine" as told to Rebecca Dorr.

"The Code Breaker". *Rhode Island Monthly Magazine.* Profile by Ellen Liberman. June 2004.

"Amazing women" *Women in Science.* March 23, 2005. PBSRI
Interviewed by Deb Ruggiero about President Summer's remarks on Women in Science.

Press Quotes and Brief Interviews

New Rules Offered For Inmate Medical Tests. *New York Times*. October 16, 1999

A panel member, Dr. Anne S. De Groot, said prisoners with AIDS must be given access to cutting-edge clinical tests but also protected from possible abuses. The panel recommended that prisons where research is done must have quality medical care already available, so inmates do not feel coerced into research programs simply to get proper care.

Published: October 16, 1999 **Computers Aid Vaccine Design**, *Science Magazine*, Featured interview in story by Michael Hagmann, *Science* 2000 October 6; 290: 80-82. (in News)

A Health Danger From a Needle Becomes a Scourge Behind Bars *New York Times*, Front Page. Featured interview in story by David Rohde. August 6th, 2001.

TB in prison. *TB Monitor*. Featured interview in story Alice Alexander. Fall 2000.

HIV Testing of State Prisoners Not Mandatory. Indianapolis Star (10.21.01) - Wednesday, October 24, 2001 Mike Ellis

Hepatitis C has higher incidence among inmates. Many prisons opting to withhold treatment. September 5, 2001 Associated Press

A Health Danger From a Needle Becomes a Scourge Behind Bars. *New York Times* (New York Report) August 6, 2001. David Rhode

Hepatitis C Spreads Mostly Unchecked in Prisons. Reuters. April 5 2001. Alan Elsner, National Correspondent.

HIV Testing of State Prisoners Not Mandatory. Indianapolis Star (10.21.01): Mike Ellis.

Alabama Prison at Center of Suit Over AIDS Policy. *New York Times* (National News Section). October 26, 2003. Adam Liptak.

Top For 2003 (Providence Monthly's third annual ten people you don't know now, but soon will). *Providence Monthly*, 2003.

Can HIV Care Click in the Clink? *Poz Magazine*. April 2004.

Mass Biotech News // Biotechnology publications – Press reports about **Smallpox, Tularemia** vaccines 2004-2007.

“EpiVax considers new business focus after discovery” Providence Business News Oct. 24, 2007.

Dr. Anne S. De Groot, CEO of EpiVax Inc. and director of the Brown University Warren Alpert Medical School's TB/HIV Research Laboratory, discusses her Providence-based biopharmaceutical company's latest discovery, which could lead to major breakthroughs in treating autoimmune disorders.

Full report online: www.pbn.com/stories/28019.html

URI names EpiVax founder to head Institute for Immunology & Informatics Posted Feb 12, 2009
<http://www.pbn.com/detail/40257.html>