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About the Walter Reed Army Institute of Research

The Walter Reed Army Institute of Research (WRAIR) consists of nine scientific divisions each representing a scientific discipline, six support divisions, four detachments in the United States and four Overseas laboratories. The Institute specializes in medical research in biochemistry, immunology, experimental therapeutics, military medicine, neuropsychiatry, experimental pathology, blood products, preventive medicine, retrovirology [HIV], vaccines and their delivery systems, communicable diseases, biological and chemical threats, and combat dentistry and surgery. The staff is roughly 50% military and 50% civilian, equally divided between scientific and support personnel. Important organizational components of the WRAIR are the special field activities in Thailand, Brazil, Kenya, and Germany. Research and support functions at the overseas labs are closely coordinated with efforts at the main facility in Washington, DC.

The mission of WRAIR is to counter threats from three sources: biologically active substances, high energy and trauma, and stress and performance. The historic emphasis at WRAIR is research against naturally occurring infectious agents encountered in military training or operations. The threat of "biologically active substances" encompasses naturally occurring infectious diseases, toxins, and commonly used chemicals. In addition, there is significant research to counter physical (environmental) threats and psychological disease in training and in combat operations.

WRAIR primarily works at the applied research and pre-development level, but the institute is also intimately involved in product development with the United States Army Medical Material Development Agency (USAMMDA), Ft. Detrick, MD. By chairing and serving on scientific steering committees, WRAIR scientists provide the technical guidance required for rational development of technical base initiatives. In addition, many products are developed and tested at the WRAIR Special Field Activity Laboratories.

WRAIR's efforts are not limited to research: WRAIR (pronounced "rare") was originally founded in 1893 as the US Army Medical School. It continues to be a center of learning through the military preventive medicine residency, a military medical research fellowship program, and short courses in tropical medicine, veterinary medicine and other subjects. Many of our post-doctoral fellowships bring outstanding young scientists to the Institute for up to two years at a time.

The vertical integration which marks WRAIR's structure has been present from the beginning. Just as Major Walter Reed did his outstanding work on Yellow Fever as a member of the first faculty, the Institute today still has the capability of identifying a threat, determining its cause, designing an answer, testing it under actual field conditions, and teaching others to use the results.

Some Major Accomplishments

1898: Reed-Vaughn-Shakespeare Typhoid Board established mechanism of transmission.

1900: Yellow Fever Board, in Cuba, proved mosquito transmission of Yellow Fever.

1910: Maj. C.R. Darnall developed the use of chlorine to purify drinking water.

1918: Maj. R.L. Kahn devised what became the standard serologic test for syphilis.

1925: Col. Calvin H. Goddard began work which led to the science of comparative ballistics.

1933: Atabrine was introduced as a substitute for quinine in combatting malaria.

1940-45: Work by Cpt. D.B. Kendrick led to the first system of blood banking, storage and use.

1957: Drs. Hilleman and Buescher isolated Asian flu virus strain used to make first vaccine.

1962: Drs. Parkman, Artenstein and Buescher isolated the Rubella virus, leading to a vaccine.

1979: WRAIR psychologists played a major role in developing the Army's new manning system.

1982: WRAIR immunologists began work to develop the world's first promising malaria vaccine.

1990: Maj. Robert DeFraites, Maj. Jose Sanchez, and LTC Charles Hoke conduct a major vaccine field trial with a Japanese encephalitis virus vaccine. This was the last hurdle prior to licensure of a commercial product.

1995: A hepatitis A vaccine is licensed. WRAIR scientists did much of the preliminary research on this vaccine strain and a pivotal field trial in Thailand.

KEY TO CITATIONS

J Journal

C Chapter

B Book

R Report

A Abstract

Listing of Journal Articles/Chapters/Reports

1. Adler, A.; Vaitkus, M.; Martin, J. "Combat Exposure and Post Traumatic Stress Symptomatology Among U.S. Soldiers Deployed to the Gulf War." Mil Psychol. 1996; 8(1): 1-14
   Note: **(J)**
   post traumatic stress disorder/combat/stress/Gulf War.

2. Agin, T.; Cantey, J.; Boedeker, E.; Wolf, M. "Characterization of the *eaeA* Gene from Rabbit Enteropathogenic *Escherichia coli* Strain RDEC-1 and Comparison to Other *eaeA* Genes from Bacteria That Cause Attaching-Effacing Lesions." FEMS Microbiol Lett. 1996 Nov; 144(2-3): 249-258
   Note: **(J)**
   ADA317993
   Escherichia coli strain RDEC-1/*eaeA* gene/Intimin/attaching-effacing lesion.

3. Alexander, W.; Hartman, A.; Oaks, E.; Venkatesan, M. "Construction and Characterization of *virG (icsA)*-Deleted *Escherichia coli* K12-*Shigella flexneri* Hybrid Vaccine Strains." Vaccine. 1996 Aug; 14(11): 1053-1061
   Note: **(J)**
   ADA315360
   Shigella/vaccines/*virG* deletion.

4. Altschuler, B.; Oliver, W.; Altschuler, M. "Rapid 3-D Video/Laser Sensing and Digital Archiving With Immediate On-Scene Feedback for 3-D Crime Scene/Mass Disaster Data Collection and Reconstruction." SPIE - Proceedings Reprint. 1996; 2645: 32-38
   Note: **(J)**
   ADA306256
   robot vision/robotics/virtual reality/lasers.

5. Alving, B.; Carter, A. "Newer Antithrombotic Agents: Potential for Clinical Use in Venous and Arterial Thrombosis." J Thromb Thrombolysis. 1996; 2(4): 285-288
   Note: **(J)**
   anticoagulants/antithrombotics/thrombosis.

6. Alving, B.; Weinstein, M.; Finlayson, J.; Fratantoni, J. "Further Information on the Fibrin Sealant Conference." Transfusion. 1996 Sep; 36(9): 845-846
Note: **(J)**
fibrin sealant.

7. Alving, C.; Swartz, G.; Wassef, N.; Ribas, J. "Immunization with Cholesterol-Rich Liposomes Induces Anti-Cholesterol Antibodies and Reduces Diet-Induced Hypercholesterolemia and Plaque Formation." J Lab Clin Med. 1996 Jan; 127(1): 40-49
Note: **(J)**
ADA307424
anti-cholesterol/antibodies/liposomes.

8. Alving, C.; Wassef, N.; Potter, M. "Antibodies to Cholesterol: Biological Implications of Antibodies to Lipids." Curr Top Microbiol Immunol. 1996; 210: 181-186
Note: **(J)**
antibodies/cholesterol/lipids.

9. Alving, C.; Wassef, N.; Richards, R. "Use of Adjuvants for Enhancement of Antibody Responses." Weir's Handbook of Experimental Immunology. 1996; 3: 87.1-10
Note: **(C)**
adjuvants/experimental immunology.

10. Amitai, G.; Moorad, D.; Adani, R.; Doctor, B. "Inhibition of Acetylcholinesterase and Butyrylcholinesterase by Chlorpyrifos-Oxon." Medical Defense Bioscience Review - Proceedings. 1996; 1: 85-95
Note: **(J)**
acetylcholinesterase/butyrylcholinesterase/Gulf War syndrome/chloropyrifos.

11. Anderson, R.; Schwartlander, B.; McCutchan, F.; Hu, D. "Implications of Genetic Variability in HIV for Epidemiology and Public Health." Lancet. 1996 Jun; 347:
Note: **(J)**
HIV/public health.

12. Anderson, S.; Saviolakis, G.; Bauman, R.; Chu, K. "Effects of Chronic Stress on Food Acquisition, Plasma Hormones, and the Estrous Cycle of Female Rats." Physiol Behav. 1996 Jul; 60(1): 325-329
Note: **(J)**
ADA313132
stress/chronic stress/female rats/estrous cycle.

13. Argyros, G.; Roach, J.; Hurwitz, K.; Eliasson, A. "Eucapnic Voluntary Hyperventilation as a Bronchoprovocation Technique: Development of a Standardized Dosing Schedule in Asthmatics." Chest. 1996 Jun; 109(6): 1520-1524
Note: **(J)**
hyperventilation/asthma.

14. Artenstein, A.; Hegerich, P.; Beyrer, C.; Rungruengthanakit, K. "Sequences and Phylogenetic Analysis of the nef Gene From Thai Subjects Harboring Subtype E HIV-1." Aids Res Hum Retroviruses. 1996 Apr; 12(6): 557-560
Note: **(J)**
genetic polymorphism/gene evolution/nef gene.

15. Artenstein, A.; Ohl, C.; VanCott, T.; Hegerich, P. "Transmission of HIV-1 Subtype E in the United States." JAMA. 1996 Jul; 276(2): 99-100
Note: **(J)**
HIV-1.

16. Atwa, M.; Smallridge, R.; Burch, H.; Gist, I. "Immunoglobulins From Graves Disease Patients Stimulate Phospholipase-A (2) and Phospholipase-C Systems in FRTL-5 and Human Thyroid Cells." Eur J Endocrinol. 1996 Sep; 135(3): 322-327
Note: **(J)**
immunoglobulins/Graves disease.

17. Avery, M.; Fan, P.; Karle, J.; Bonk, J. "Structure Activity Relationships of the Antimalarial Agent Artemisinin. 3. Total Synthesis of (+)-13-Carbaartemisinin and Related Tetracyclic and Tricyclic Structures." J Med Chem. 1996 Apr; 39(9): 1885-1897
Note: **(J)**
antimalarial agents/artemisinin.

18. Avery, M.; Mehrotra, S.; Bonk, J.; Vroman, J. "Structure Activity Relationships of the Antimalarial Agent Artemisinin. 4. Effect of Substitution at C-3." J Med Chem. 1996 Jul; 39(15): 2900-2906
Note: **(J)**
artemisinin/antimalarial agents.

19. Avery, M.; Mehrotra, S.; Johnson, T.; Bonk, J. "Structure Activity Relationships of the Antimalarial Agent Artemisinin. 5. Analogs of 10-Deoxoartemisinin Substituted at C-3 and C-9." J Med Chem. 1996 Oct; 39(21): 4149-4155
Note: **(J)**
antimalarial agents/artemisinin.

20. Avis, I.; Jett, M.; Boyle, T.; Vos, M. "Growth Control of Lung Cancer by Interruption of 5-Lipoxygenase Mediated Growth Factor Signaling." J Clin Invest. 1996 Feb; 97(3): 806-813
Note: **(J)**
lipoxygenase pathway/lung cancer/apoptosis/growth inhibition.

21. Baimai, V.; Kijchalao, U.; Rattanarithikul, R. "Metaphase Karyotypes of *Anopheles* of Thailand and Southeast Asia: V. The Myzomyia Series, Subgenus *Cellia* (Diptera: Culicidae)." J Am Mosq Control Assoc. 1996 Mar; 12(1): 97-105
Note: **(J)**
metaphase karyotypes/*Anopheles*/Myzomyia Series.

22. Baimai, V.; Kijchalao, U.; Rattanarithikul, R. "Metaphase Karyotypes of *Anopheles* of Thailand and Southeast Asia. VI. The Pyretophorus and the Neomyzomyia Series, Subgenus *Cellia* (Diptera: Culicidae)." J Am Mosq Control Assoc. 1996 Dec; 12(4): 669-675
Note: **(J)**
ADA323462
metaphase karyotypes/*Anopheles*/heterochromatin.

23. Bangs, M.; Rusmiarto, S.; Anthony, R.; Wirtz, R. "Malaria Transmission by *Anopheles punctulatus* in the Highlands of Irian-Jaya, Indonesia." Ann Trop Med Parasitol. 1996 Feb; 90(1): 29-38
Note: **(J)**
malaria/*Anopheles punctulatus*/Indonesia.

24. Barthold, S.; Desouza, M.; Feng, S. "Serum Mediated Resolution of Lyme Arthritis in Mice." Lab Invest. 1996 Jan; 74(1): 57-67
Note: **(J)**
lyme diseases/immune serum treatment.

25. Bartone, P. "American IFOR Experience: Psychological Stressors in the Early Deployment Period." Intl Applied Military Psychology Symposium - Proceedings. 1996 May; 87-97
Note: **(J)**
ADA315249
implementation force/IFOR/peacekeeping/Bosnia.

26. Bartone, P. "Family Notification and Survivor Assistance: Thinking the Unthinkable." War: Veterans, Families, Communities, and Nations. 1996; 315-350
Note: **(C)**
family notification/survivor assistance/Gulf War/Persian Gulf.

27. Bartone, P.; Adler, A. "A Model of Psychological Issues in Peacekeeping Operations." Research Report - USAMRU-Europe. 1996 Mar; (23): 2
Note: **(R)**
ADA315243
peacekeeping.

28. Bauman, R.; Raslear, T.; Hursh, S.; Shurtleff, D. "Substitution and Caloric Regulation in a Closed Economy." J Exp Anal Behav. 1996 Mar; 65(2): 401-422
Note: **(J)**
feeding/caloric regulation/diet.

29. Berman, J. "Treatment of New World Cutaneous and Mucosal Leishmaniases." Clin Dermatol. 1996 Sep-Oct; 14(5): 519-522
Note: **(J)**
antiprotozoal agents/leishmaniasis.

30. Bhattacharjee, A.; Cross, A.; Opal, S.; Warren, H. "New Trends in *Escherichia coli* O111:B4 J5 Mutant (R_cChemotype) Vaccine Development for Use in Gram-Negative Bacillary Sepsis." Novel Therapeutic Strategies in the Treatment of Sepsis. 1996; Chapter 1: 1-11
Note: **(C)**
ADA303402
gram-negative bacteremia/sepsis/*Escherichia coli*/neutropenic rat.

31. Bhattacharjee, A.; Karle, J. "Molecular Electronic Properties of a Series of 4-Quinolinecarbinolamines Define Antimalarial Activity Profile." J Med Chem. 1996 Nov; 39(23): 4622-4629
Note: **(J)**
ADA323165
molecular modeling/antimalarials/mefloquine/computational chemistry.

32. Bhattacharjee, A.; Opal, S.; Taylor, R.; Naso, R. "A Noncovalent Complex Vaccine Prepared with Detoxified *Escherichia coli* J5 (R_c Chemotype) Lipopolysaccharide and *Neisseria meningitidis* Group B Outer Membrane Protein Produces Protective Antibodies Against Gram-Negative Bacteremia." J Infect Dis. 1996 May; 173(5): 1157-1163
Note: **(J)**
ADA309456
gram-negative bacteremia/*Escherichia coli*/non-covalent complex vaccine/lipopolysaccharide.

33. Birx, D.; VanCott, T.; Michael, N.; McNeil, J. "Summary of Track A: Basic Science." AIDS, Supplement. 1996; 10(3): S85-S106
Note: **(J)**
HIV-1/T lymphocyte/pathogenesis.

34. Biswas, R.; Nelson, E.; Lewindon, P.; Lyon, D. "Molecular Epidemiology of *Escherichia coli* Diarrhea in Children in Hong Kong." J Clin Microbiol. 1996; 34(12): 3233-3234
Note: **(J)**
molecular epidemiology/*Escherichia coli*/children/Hong Kong.

35. Bobkov, A.; Cheingsong-Popov, R.; Salminen, M.; McCutchan, F. "Complex Mosaic Structure of the Partial Envelope Sequence from a Gambian HIV Type 1 Isolate." AIDS Res Hum Retroviruses. 1996; 12(2): 169-171
Note: **(J)**
HIV-1/genetic subtypes.

36. Britt, T. "Responsibility, Morale, and Commitment During Military Operations." Research Report - USAMRU-Europe. 1996 Apr;
Note: **(J)**
ADA313143
job performance/deployment/triangle model of responsibility.

37. Britt, T. "Using the Triangle Model of Responsibility to Understand Psychological Ambiguities in Peacekeeping Operations." WRAIR/TR-96-0001. 1996;
Note: **(R)**
ADA300952
peacekeeping/commitment/psychological ambiguities/triangle model of responsibility.

38. Britt, T.; Adler, A.; Moore, M.; Bartone, P. "Soldier Beliefs About Peacekeeping Operations as Predictors of Depression, Morale, and Responsibility." WRAIR/TR-96-0006. 1996;
Note: **(R)**
ADA313510
peacekeeping/soldiers/morale/depression.

39. Britt, T.; Boneicki, K.; Vescio, T.; Biernat, M. "Intergroup Anxiety: A Person X Situation Approach." Personality and Social Psychology Bulletin. 1996; 22: 1177-1188
Note: **(C)**
intergroup anxiety/person X.

40. Britton, P.; Whitton, P.; Fowler, L.; Bowery, N. "Tetanus Toxin Induced Effects on Extracellular Amino Acid Levels in Rat Hippocampus: An *In vivo* Microdialysis Study." J Neurochem. 1996; 67(1): 324-329
Note: **(J)**
neurotransmission/metabolism/neurodegeneration/gamma-aminobutyric acid.

41. Brown, A.; Brundage, J.; Tomlinson, J.; Burke, D. "The U.S. Army HIV Testing Program: The First Decade." Mil Med. 1996 Feb; 161(2): 117-122
Note: **(J)**
ADA304687
HIV serodiagnosis/epidemiological monitoring/military medicine.

42. Brown, A.; Newby, J.; Ray, K.; Jackson, J. "Prevention and Treatment of HIV Infections in Minorities in the U.S. Military: A Review of Military Research." Mil Med. 1996 Feb; 161(2): 123-127
Note: **(J)**
ADA304685
HIV/acquired immunodeficiency syndrome/minorities/military medicine.

43. Brown, A.; Robb, M.; McCutchan, F. "Polymerase Chain Reaction for Diagnosis of HIV Infection." Ann Int Med. 1996 May; 126(9): 739-740
Note: **(J)**
HIV/polymerase chain reaction.

44. Brown, A.; Vahey, M.; Zhou, S.; Chung, R. "Relationship Between Immune Complex Dissociated P24 Antigen and Human Immunodeficiency Virus Type-1 RNA Titers in Plasma - Reply." J Infect Dis . 1996 Jun; 173(6): 1523-1524
Note: **(J)**
antigen/HIV-1.

45. Brundage, J.; Gunzenhauser, J.; Longfield, J.; Rubertone, M. "Epidemiology and Control of Acute Respiratory Diseases With Emphasis on Group A Beta Hemolytic Streptococcus: A Decade of US Army Experience." Pediatrics. 1996 ; 97: 964-970
Note: **(J)**
epidemiology/respiratory diseases/group A beta hemolitic streptococcus.

46. Burghaus, P.; Wellde, B.; Hall, T.; Richards, R. "Immunization of *Aotus nancymai* with Recombinant C-Terminus of *Plasmodium falciparum* Merozoite Surface Protein-1 in Liposomes and Alum Adjuvant." Infect Immun. 1996 Sep; 64(9): 3614-3619
Note: **(J)**
Plasmodium falciparum.

47. Burke, D. "Joseph Alexandre Auzias Turenne, Louis Pasteur, and Early Concepts of Virulence, Attenuation, and Vaccination." Perspect Biol Med. 1996 Winter; 39(2): 171-186
Note: **(J)**
bacterial vaccines/viral vaccines/vaccines/syphilis.

48. Burke, D.; McCutchan, F. "Global Distribution of Human Immunodeficiency Virus-1 Clades." AIDS: Etiology, Diagnosis, Treatment and Prevention. 1996; Chapter 7: 119-125
Note: **(C)**
HIV-1/clades.

49. Callahan, H.; Kelley, C.; Pereira, T.; Grogl, M. "Microtubule Inhibitors: Structure Activity Analyses Suggest Rational Models to Identify Potentially Active Compounds." Antimicrob Agents Chemother. 1996 Apr; 40(4): 947-952
Note: **(J)**
antiprotozoal agents/herbicides/trifluralin/parasites.

50. Callahan, H.; Portal, I.; Bensinger, S.; Grogl, M. "Leishmania Spp - Temperature Sensitivity of Promastigotes In Vitro as a Model for Tropism In Vivo." Exp Parasitol. 1996 Dec; 84(3): 400-409
Note: **(J)**
leishmania/kinetoplastida/tropism.

51. Carr, J.; Salminen, M.; Koch, C.; Gotte, D. "Full Length Sequence and Mosaic Structure of a Human Immunodeficiency Virus Type-1 Isolate from Thailand." J Virol. 1996 Sep; 70(9): 5935-5943
Note: **(J)**
HIV-1.

52. Carter, A.; Laird, J. "Experimental Results With Endovascular Irradiation Via a Radioactive Stent." Int J Radiat Oncol Biol Phys. 1996 Nov; 36(4): 797-803
Note: **(J)**
stents/restenosis/endovascular irradiation.

53. Carter, A.; Laird, J.; Bailey, L.; Hoopes, T. "Effects of Endovascular Radiation From a Beta-Particle Emitting Stent in a Porcine Coronary Restenosis Model - A Dose-Response Study." Circulation. 1996 Nov; 94(10): 2364-2368
Note: **(J)**
coronary disease/radiotherapy/stents.

54. Carter, A.; Laird, J.; Kufs, W.; Bailey, L. "Coronary Stenting With a Novel Stainless Steel Balloon-Expandable Stent: Determinants of Neointimal Formation and Changes in Arterial Geometry After Placement in an Atherosclerotic Model." J Am Coll Cadiol. 1996; 27(5): 1270-1277
Note: **(J)**
atherosclerosis/stents/balloon dilation.

55. Cassol, S.; Weniger, B.; Babu, P.; Salminen, M. "Detection of HIV Type 1 Env Subtypes A, B, C, and E in Asia Using Dried Blood Spots: A New Surveillance Tool for Molecular Epidemiology." AIDS Res Hum Retroviruses. 1996; 12(15): 1435-1441
Note: **(J)**
HIV-1/blood/molecular epidemiology.

56. Chanbancherd, P.; Kasemsant, S.; Sukvit, S.; Kilinputsorn, R. "CD4+ and CD8+ T-Lymphocyte Enumeration by Fluorescent Bead Detection." Thai AIDS J. 1996; 8: 191-201
Note: **(J)**
T lymphocyte/CD4+/CD8+.

57. Chen, J.; Zhao, W.; Komisar, J.; Weng, C. "Characteristics of the Splenic T Cell Response to Staphylococcal Enterotoxin B in the Actinomycin D-Primed Mouse Model." Medical Defense Bioscience Review - Proceedings. 1996; 3: 1488-1492
Note: **(C)**
splenic T cell/staphylococcal enterotoxin B/actinomycin D.

58. Cheville, N.; Olsen, S.; Jensen, A.; Stevens, M. "Bacterial Persistence and Immunity in Goats Vaccinated with a Pure Deletion Mutant or the Parental 16m Strain of *Brucella melitensis*." Infect Immun. 1996 Jul; 64(7): 2431-2439
Note: **(J)**
Brucella melitensis/goats/vaccination.

59. Chiang, P.; Gordon, R.; Tal, J.; Zeng, G. "S-Adenosylmethionine and Methylation." FASEB J. 1996 Mar; 10(4): 471-480
Note: **(J)**
s-adenosylmethionine/DNA metabolism/methylation.

60. Chiang, P.; McCann, P.; Lane, J.; Pankaskie, M. "Anti-Human Immunodeficiency Virus (HIV-1) Activities of Inhibitors of Polyamine Pathways." J Biomed Sci. 1996; 3(2): 78-81
Note: **(J)**
polyamines/anti-HIV/HIV-1.

61. Chisick, M. "Expenditures on Family Dental Care by Active Duty Soldiers." Mil Med. 1996 Jan; 161(1): 22-26
Note: **(J)**
ADA304677
dental care/Army family members.

62. Clayson, E.; Snitbhan, R.; Ngamprochana, M.; Vaughn, D. "Evidence That the Hepatitis E Virus is a Zoonotic Virus: Detection of Natural Infections Among Swine, Rats and Chickens in an Area..." Enterically Transmitted Hepatitis Viruses. 1996; 329-335
Note: **(C)**
hepatitis viruses/infections.

63. Cohen, D.; Ashkenazi, S.; Green, M.; Lerman, Y. "Safety and Immunogenicity of Investigational Shigella Conjugate Vaccines in Israeli Volunteers." Infect Immun. 1996 Oct; 64(10): 4074-4077
Note: **(J)**
immunogenicity/shigella/vaccines.

64. Corwin, A.; Khiem, H.; Clayson, E.; Pham, K. "A Waterborne Outbreak of Hepatitis E Virus Transmission in Southwestern Vietnam." Am J Trop Med Hyg. 1996; 54(6): 559-562
Note: **(J)**
Vietnam/hepatitis E.

65. Cowan, D.; Jones, B.; Frykman, P.; Polly, D. "Lower Limb Morphology and Risk of Overuse Injury Among Male Infantry Trainees." Med Sci Sports Exerc. 1996 Aug; 28(8): 945-952
Note: (J)
overuse injuries/leg length discrepancy/valgus/varus.

66. Crawford, R.; Van De Verg, L.; Yuan, L.; Hadfield, T. "Deletion of *purE* Attenuates *Brucella melitensis* Infection in Mice." Infect Immun. 1996 Jun; 64(6): 2188-2192
Note: (J)
ADA310435
Brucella melitensis.

67. Custis, P.; Gagliano, D.; Zwick, H.; Schuschereba, S. "Macular Hole Surgery Following Accidental Laser Injury With a Military Range Finder." SPIE - Proceedings Reprint. 1996; 166-174
Note: (J)
lasers/laser accidents/macular hole.

68. Dalsgaard, A.; Bjergskov, T.; Jeppesen, V.; Jorgensen, L. "Prevalence and Characterization of Vibrio Cholerae Isolated From Shrimp Products Imported Into Denmark." J Food Protection. 1996; 59(7): 694-697
Note: (J)
Vibrio cholerae/food products/Denmark.

69. Dalsgaard, A.; Mortensen, H.; Molbak, K.; Dias, F. "Molecular Characterization of Vibrio Cholerae 01 Strains Isolated During Cholera Outbreaks in Guinea-Bissau." J Clin Microbiol. 1996; 34(5): 1189-1192
Note: (J)
Vibrio cholerae/cholera/Guinea-Bissau.

70. Dalsgaard, A.; Skov, M.; Serichantalergs, O.; Echeverria, P. "Comparison of Pulsed-Fiels Gel Electrophoresis and Ribotyping for Subtyping of Vibrio Cholerae 0139 Isolated in Thailand." Epidemiol Infect. 1996; 117: 51-58
Note: (J)
electrophoresis/ribotyping/Thailand/Vibrio cholerae.

71. Dannenberg, A.; McNeil, J.; Brundage, J.; Brockmeyer, R. "Suicide and HIV Infection - Mortality Follow-Up of 4147 HIV Seropositive Military Service Applicants." JAMA. 1996 Dec; 276(21): 1743-1746
Note: **(J)**
suicide/HIV.

72. Das, R.; Vonderhaar, B. "Activation of RAF-1, MEK, and MAP Kinase in Prolactin Responsive Mammary Cells." Breast Cancer Research and Treatment. 1996; 40: 141-149
Note: **(J)**
breast cancer/prolactin/signal transduction.

73. Das, R.; Vonderhaar, B. "Involvement of SHC, GRB2, SOS, and RAS in Prolactin Signal Transduction in Mammary Epithelial Cells." Oncogene. 1996; 13: 1139-1145
Note: **(J)**
prolactin/breast cancer.

74. Dave, J.; Tortella, F.; Britton, P.; Rusakov, S. "Heat Shock Mediated Protection Against Glutamate Toxicity in Neuronal Cultures Derived From Different Regions of Rat Brain." Medical Defense Bioscience Review - Proceedings. 1996; 1: 457-464
Note: **(C)**
heat shock/glutamate toxicity/rat brain/chemical causality care.

75. Davis, T.; Wiesmann, W.; Kidwell, W.; Cannon, T. "Effect of Space Flight on Human Stem Cell Hematopoiesis: Suppression of Erythropoiesis and Myelopoiesis." J Leukoc Biol. 1996 Jul; 60(1): 69-76
Note: **(J)**
space flight/cell hematopoiesis/erythropoiesis/myelopoiesis.

76. DeFraites, R.; Wanat, E.; Norwood, A.; Williams, S. "Investigation of a Suspected Outbreak of an Unknown Disease Among Veterans of Operations Desert Shield/Storm." WRAIR/TR-96-0002. 1996;
Note: **(R)**
ADA301076
Desert Shield/Desert Storm/epidemiology/military medicine.

77. Ding, X.; Smallridge, R.; Galloway, R.; Kiang, J. "Increases in HSF1 Translocation and Synthesis in Human Epidermoid A-431 Cells: Role of Protein Kinase C and [Ca2$^+$]i." J Investig Med. 1996 Apr; 44(4): 144-153
Note: (J)
calcium/DNA binding proteins/protein kinase C/tumor cells.

78. Ding, X.; Smallridge, R.; Galloway, R.; Kiang, J. "Rapid Assay of HSF1 and HSF2 Gene Expression by RT PCR." Mol Cell Biochem. 1996 May; 158(2): 189-192
Note: (J)
heat shock proteins/epithelia/reverse transcriptase polymerase chain reaction.

79. Ding, X.; Smallridge, R.; Galloway, R.; Kiang, J. "Transcriptional Regulation of Heat Shock Gene Expression by [Ca2+]I and Protein Kinase C." J Investig Med. 1996; 44: 144-153
Note: (J)
heat shock/protein kinase C.

80. Dohm, D.; Logan, T.; Libthicum, K.; Rossi, C. "Transmission of Crimean-Congo Hemorrhagic Fever by *Hyalomma impeltatum* (Acari: Isodidae) After Experimental Infection." J Med Entomol. 1996; 33: 848-851
Note: (J)
Crimean-Congo fever/*Hyalomma impeltatum*/infection.

81. Dong, Q.; Brucker-Davis, F.; Weintraub, B.; Smallridge, R. "Screening of Candidate Oncogenes in Human Thyrotroph Tumors - Absence of Activating Mutations of the G-Alpha(Q), G-Alpha(11), G-Alpha(S), or Thyrotropin Releasing Hormone Receptor Genes." J Clin Endocrinol Metab. 1996 Mar; 81(3): 1134-1140
Note: (J)
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Neisseria meningitidis/polysialytransferase gene.

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Note: **(J)**
ADA307429
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Note: **(J)**
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Phlebotomus duboscqi/gut antigen/fecundity/mortality.

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Note: (J)
ADA310440
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ADA304653
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Note: **(J)**
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Plasmodium falciparum/genotyping/polymerase chain reaction/drug resistance.

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Note: **(J)**
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Note: **(J)**
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Note: **(J)**
ADA304682
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Note: **(J)**
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Note: **(J)**
pheochromocytoma/prodynorphin gene/dynorphin.

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Note: **(J)**
crystal structure/nitrogen heterocycle/bicyclic compound.

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Note: **(J)**
ADA319316
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Note: **(J)**
ADA313114
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Note: **(J)**
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Note: **(J)**
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Note: **(J)**
cell signaling/heat shock/protein expression.

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Note: **(J)**
heat shock/protein expression.

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Note: **(J)**
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Note: **(J)**
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Note: **(J)**
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Note: **(J)**
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Note: **(J)**
epitope/*Plasmodium falciparum*/leukocytes/platelets.

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Note: **(J)**
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Note: **(C)**
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Note: (J)
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Note: (J)
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Note: (J)
ADA313637
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Proteus mirabilis/invasion/internalization.

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ADA304640
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Note: **(J)**
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Note: **(J)**
ADA323461
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ADA309528
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Note: **(J)**
ADA319399
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Note: **(J)**
ADA318000
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Note: **(J)**
ADA309499
malaria/*Anopheles*/*Plasmodium falciparum*/*Plasmodium vivax*.

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Anopheles/Thailand.

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Note: (J)
HIV-1/T lymphocyte/V3 loop/epitope.

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Note: (J)
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cytokine/monocytes/gravidae/HIV-1.

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Note: (J)
ADA323476
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Note: (J)
HIV-1/envelope protein.

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laser irradiation/vision loss/functional deficits.

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Note: **(J)**
ADA323459
microsatelllites/*Anopheles maculatus*/malaria/polymorphisms.

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Note: **(A)**
factor-V leiden/venous thromboembolism.

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Note: **(A)**
HIV-1/Thailand.

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Note: **(A)**
antioxidant mechanism/nitric oxide/erythroleukemia cells.

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Note: **(A)**
tourniquet test/screening/dengue virus.

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Note: **(A)**
hypoxia/cerebral edema/acute mountain sickness.

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Note: **(A)**
apoptosis/vero cells/dengue virus.

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Note: **(A)**
apoptosis/vero cells/dengue virus.

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Note: **(A)**
vaccine/dengue 2 S16803.

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Note: **(A)**
HIV-1/Thailand.

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Note: **(A)**
parasites/antimalarial drugs.

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Note: **(A)**
neutrophil/endothelial cell/nitric oxide.

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Note: **(A)**
nitric oxide/endothelial cell injury.

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Note: **(A)**
corticolibrin superfamily/calcium.

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Note: **(A)**
heat shock proteins/intracellular free calcium.

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Note: **(A)**
HIV/low expression level.

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Note: **(A)**
adjuvants/HIV antibodies/HIV envelope protein.

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Note: **(A)**
HIV-1/risk factors/Thailand.

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Note: **(A)**
Plasmodium falciparum/antimalarial drugs/Kenya.

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Note: **(A)**
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Note: **(A)**
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Note: **(A)**
systemic lupus erythematosus/P53 gene mutation/immune system.

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Note: **(A)**
myeloperoxidase.

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Note: **(A)**
systemic lupus erythematosus/homeostasis.

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Note: **(A)**
T cells/systemic lupus erythematosus/tumor necrosis factor-Alpha.

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Note: **(A)**
plasma levels/argatroban/thrombin time.

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Note: **(A)**
azithromycin/doxycycline.

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Note: **(A)**
malaria/antibodies.

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Note: **(A)**
antibodies/*Plasmodium falciparum*.

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Note: **(A)**
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Note: **(A)**
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Note: **(A)**
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Note: **(A)**
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Note: **(A)**
malaria/cytochrome P450.

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Note: **(A)**
malaria/arteether.

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Note: **(A)**
HIV seropositivity/military personnel.

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Note: **(A)**
antimalarial drugs/WR238605.

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Note: **(A)**
arteether/sesame oil/cremophor.

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Note: **(A)**
HIV-1/Baltic States.

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Note: **(A)**
Plasmodium berghei/*Plasmodium falciparum*/malaria.

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Note: **(A)**
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Note: **(A)**
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Note: **(A)**
tissue adhesives.

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Note: **(A)**
malaria/Thailand/vegetation cover.

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Note: **(A)**
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Note: **(A)**
antibodies/hepatitis E/HEV infections.

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Note: **(A)**
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Note: **(A)**
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Note: **(A)**
acute defeat/territory marking/post traumatic stress disorder/swim mobility.

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Note: **(A)**
ocular hazards/laser.

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Note: **(A)**
terfenadine/antihistamines/antiallergic drugs/diphenhydramine.

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Note: **(A)**
Plasmodium falciparum/Plasmodium yoelii/Plasmodium berghei/malaria.

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Note: **(A)**
manometric measurements/hemoglobin.

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Note: **(A)**
menigococcal sepsis/NPCR/urine.

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Note: **(A)**
guanine/nitrogen mustard adduct.

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Note: **(A)**
HIV/epidemiology/Thailand.

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Note: **(A)**
PCR testing/*Plasmodium falciparum*/SPF66 vaccine.

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Note: **(A)**
immunoglobulin A/immunoglobulin G/humoral immunity.

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Note: **(A)**
HIV-1.

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Note: **(A)**
HIV-1/genomes.

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Note: **(A)**
hematin/tumor necrosis factor-Alpha/IL8.

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Note: **(A)**
HEME activation/MNL.

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Note: **(A)**
HIV-1/AIDS vaccines/international cooperation.

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Note: **(A)**
RDEC-1/proteosomes/rabbit.

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Note: **(A)**
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Note: **(A)**
HIV-1/AIDS vaccines/cloning.

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Note: **(A)**
HIV-1/viral RNA/pulmonary infection/mycobacterium tuberculosis.

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Note: **(A)**
HIV 1/pulmonary tuberculosis/viral RNA load.

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Note: **(A)**
HIV-1/peripheral blood lymphocyte/potential gene therapy/CD4+ T cell.

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Note: **(A)**
nitric oxide/*Plasmodium falciparum*/malaria/visceral leishmaniasis.

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Note: **(A)**
serum nitrate/malaria/Kenya.

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Note: **(A)**
viruses/hepatitis E/blood cells.

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Note: **(A)**
interferon/*Toxoplasma gondii*.

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Note: **(A)**
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Note: **(A)**
amino acid/staphylococcal enterotoxin B.

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Note: **(A)**
HIV-1/viral load.

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Note: **(A)**
Escherichia coli/diarrhea.

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Note: **(A)**
Shigella flexneri/IpaD protein/monoclonal antibodies.

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Note: **(A)**
Citrobacter freundii/proteus mirabilis/strophanthin/cadaverine.

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Note: **(A)**
Escherichia coli/J5LPS/gram negative sepsis.

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Note: **(A)**
sequestrin/*Plasmodium falciparum*/field samples.

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Note: **(A)**
antimalarial drugs/*Plasmodium falciparum*/PLDH method.

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Note: **(A)**
malaria/red blood cells.

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Note: **(A)**
T cells/antigens/IL-12/*Plasmodium falciparum*.

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Note: **(A)**
salivary gland/electron microscopy.

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Note: **(A)**
pulmonary hypertension/blood substitutes.

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Note: **(A)**
race/dengue infection/military personnel.

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Note: **(A)**
lethal shock/staphylococcal enterotoxin B.

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Note: **(A)**
dengue virus/polymerase chain reaction.

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Note: **(A)**
liposomes/encapsulation/conalbumin.

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Note: **(A)**
PC12 cell acetylcholine/botulinum toxin A/arachidonic acid/mastoparan.

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Note: **(A)**
clot retraction/platelet activation.

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Note: **(A)**
blood cells/clot retraction/platelets/cryopreservation.

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Note: **(A)**
clot retraction/calcium.

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Note: **(A)**
HIV 1/risk taking behavior.

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Note: **(A)**
HIV infections/pregnancy.

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Note: **(A)**
Anopheles species/Thailand.

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WALTER REED ARMY INSTITUTE OF RESEARCH
U.S. Patent Applications by WRAIR Inventors

Application SN 08/590,973 filed 24 January 1996: "Novel Burst-Free Sustained Release Poly(Lactide/glycolide)"

Inventor(s): Ramasubbu Jeyanthi
John E. Van Hamont (LTC, MS, WRAIR, Division of Medicine)
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Robert H. Reid (COL, MC, WRAIR, Division of Medicine)
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Charles McQueen (COL, MC, WRAIR, Division of Medicine)
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Application SN 08/598,874 filed 9 February 1996 [as a CIP of SN 08/242,960 filed 16 May 1994, which is a CIP of SN 07/867,301 filed 10 April 1992, which is a CIP of SN 07/805,721 filed 21 November 1991(abandoned) which is a CIP of SN 07/690,485 filed 24 April 1991 (abandoned) which is a CIP of SN 07/521,945 filed 11 May, 1990 (abandoned), which is a CIP of SN 07/493,597 (abandoned) filed 15 March 1990, which is a CIP of SN 06/590,308 filed 16 March 1984]: "Vaccines Against Intracellular Pathogens Using Antigens Encapsulated Within Biodegradable-Biocompatible Microspheres"

Inventors: Paul R. Burnett (COL, DC, Division of Pathology)
John E. Van Hamont (LTC, MSC, WRAIR, Division of Medicine)
Robert H. Reid (COL, MC, WRAIR, Division of Medicine)
Jean A. Setterstrom (GM-15, WRAIR, Dental Research Detachment)
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Deborah Birx (LTC, MC, WRAIR, Division of Retrovirology)

Application SN 08/610,823 filed 7 March 1996: "Transportable Life Support System"

Inventors: William P. Wiesman (COL, MC, WRAIR, Division of Surgery)
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[SEE PATENT NO. 5,626,151 ISSUED 6 MAY 1997]

Application SN 08/675,895 filed 5 July 1996 [as a CIP of U.S. Patent Application SN 08/446,149 filed 22 May 1995]: "Sustained Release Non-Steroidal, Anti-Inflammatory and Lidocaine PLGA Microspheres"

Inventors: William M. Vaughan (Dental Research Detachment)
John E. Van Hamont (Division of Medicine)
Jean A. Setterstrom (Dental Research Detachment)

Application SN 08/698,896 filed 16 August 1996: "Hybrid Solvent Evaporation-Extraction Process for Producing PLGA Microspheres"

Inventors: ??

Application SN 08/711,961 filed 6 September 1996 [Refiling(?) of SN 08/523,855; "Continuing Data claimed by applicant" in PA 60/003,318 (09/06/95) and PA 60/018,035 (05/21/96)]: "Bacterial Delivery System"

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Application SN 08/736,236 filed 23 October 1996 [as a CIP to U.S. Patent Application SN 08/190,436 filed 2 February 1994]: "Use of Antibodies to Sialidase as Anti-infectious Agents and Anti-Inflammatory Agents"

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Application SN 08/738,922 filed 28 October 1996: "Simple Technique for Detecting and Differentiating Bacterial Pathogens"

Inventor: Huo-Shu H. Houng (GS-13, WRAIR, Dept. of Enteric Infections)

Application SN 08/749,164 filed 14 November 1996: "Liposomal Vaccine for Transcutaneous Immunization"

Inventors: Carl R. Alving (COL, MC, Division of Biochemistry, WRAIR)
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Application SN 08/749,592 filed 15 November 1996: "Vaccine Against Gram Negative Bacteria"

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Application SN 08/764,469 filed 2 July 1996: "Liposomes Including Sterols Having Thiol Moieties and Peptides or Proteins Including CTL Epitopes and Administration Thereof"

Inventors: J Madsen
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PROVISIONAL APPLICATIONS :

Provisional Application SN 60/010,679 filed 26 January 1996: "Use of Peptides in Tracking Disease and Developing Vaccines"

Inventor(s): Karl V. Sitz (Division of Retrovirology)
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[SEE APPLICATION SN 08/788,234 FILED 24 JANUARY 1997]

Provisional Application SN 60/014,807 filed 4 April 1996: "Quantitative Measurement of p53 Expression"[See Invention Disclosure WR 96/03A dated 18 January 1996]

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Provisional Application SN 60/018,035 filed 21 May 1996 as a CIP to Application SN 08/523,855 filed 6 September, 1995: "Bacterial Delivery System"

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[SEE APPLICATION SN 08/711,961 (6 SEPTEMBER 1996) AND PROVISIONAL APPLICATION 60/003,318 (6 SEPTEMBER 1995)]