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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. B.; Golembe, E. H. "The Impact of Optempo on Soldiers and Families." WRAIR-TR-99-008 1998; Mar; (25):1-2
Notes: **(R)**
A365394
USAREUR/deployment load/optempo/Bosnia.
2. Aldous, W. K.; Martin, R. K.; Kyle, D. E. "Stage Specific Detection and Inhibition Studies of *Plasmodium Falciparum* Telomerase." Mol Biochem Parasitol 1998; Sep; 95(2):281-285
Notes: **(J)**
erythrocytes/*Plasmodium falciparum*/telomerase/polymerase chain reaction.
3. Alvarez, A.; Alarcon, R.; Opazo, C.; Campos, E. O.; Munoz, F. J.; Calderon, F. H.; Dajas, F.; Gentry, M. K.; Doctor, B. P.; deMello, F. G.; Inestrosa, N. C. "Stable Complexes Involving Acetylcholinesterase and Amyloid-Beta Peptide change the Biochemical Properties of the Enzyme and Increase the Neurotoxicity of Alzheimer's Fibrils." J Neurosci 1998; May; 18(9):3213-3223
Notes: **(J)**
A354156.
acetylcholinesterase/amylod-beta peptide/neurotoxicity/Alzheimer's disease.
4. Alving, B. M.; Krishnamurti, C. "Recent Developments and Future Perspectives for Preserved Platelets and Platelet Substitutes." In: Blood Substitutes: Present and Future 1998; 359-372
Notes: **(C)**
blood substitutes/platelets/transfusion.
5. Alving, C. R. "Theoretical Basis for Development of Liposomes as Carriers of Vaccines." In: Medical Applications of Liposomes 1998; Ch2.7:145-163
Notes: **(C)**
A354193.
liposomes/vaccines/cytotoxic T lymphocytes.

6. Amitai, G.; Moorad, D.; Adani, R.; Doctor, B. P.
"Inhibition of Acetylcholinesterase and
Butyrylcholinesterase by Chlorpyrifos-Oxon."
Biochem Pharmacol 1998; Aug;56(3):293-299
Notes: (J)
A354155.
acetylcholinesterase/butyrylcholinesterase/
chlorpyrifos-oxon/insecticide/paraoxon.
7. Anderson, S. L.; Oloo, A. J.; Gordon, D. M.; Ragama, O B.;
Aleman, G. M.; Berman, J. D.; Tang, D. B.; Dunne, M.
W.; Shanks, G. D. "Successful Double-Blinded,
Randomized, Placebo-Controlled Field Trial of
Azithromycin and Doxycycline as Prophylaxis for
Malaria in Western Kenya." Clin Infect Dis 1998;
Jan;26(1):146-150
Notes: (J)
malaria/double-blinded/azithromycin/doxycycline/Kenya.
8. Armstrong, K. L.; Cooper, M. F.; Williams, M. T.; Elsayed,
N. M. "Vitamin E and Lipoic Acid, but not Vitamin C
Improve Blood Oxygenation after High-Energy Impulse
Noise (BLAST) Exposure." Biochem Biophys Res Commun
1998; Dec;253(1);114-118
Notes: (J)
A361917.
high energy impulse noise/blast overpressure/
hemoglobin oxygenation/injury biomarkers.
9. Aronson, N. E.; Wortmann, G. W.; Johnson, S. C.; Jackson,
J. E.; Gasser, R. A. Jr.; Magill, A. J.; Endy, T. P.;
Coyne, P. E.; Grogl, M.; Benson, P. M.; Beard, J. S.;
Tally, J. D.; Gabel, J. M.; Kreutzer, R. D.; Oster,
C. N. "Safety and Efficacy of Intravenous Sodium
Stibogluconate in the Treatment of Leishmaniasis:
Recent U.S. Military Experience." Clin Infect Dis
1998; Dec;27:1457-1464
Notes: (J)
Leishmaniasis/sodium stibogluconate[SSG]/infections.

10. Aursukdij, B.; Wilairatana, P.; Vannaphan, S.; Walsh, D. S.; Gordeux, V. R.; Looareesuwan, S. "Pulmonary Edema in Cerebral Malaria Patients in Thailand." Southeast Asian J Trop Med Public Health 1998; 29(3):541-545
Notes: (J)
malaria/lungs/brain/Thailand.
11. Bannerman, D. D.; Fitzpatrick, M. J.; Anderson, D. Y.; Bhattacharjee, A. K.; Novitsky, T. J.; Hasday, J. D.; Cross, A. S.; Goldblum, S. E. "Endotoxin-Neutralizing Protein Protects against Endotoxin Induced Endothelial Barrier Dysfunction." Infect Immun 1998; Apr;66(4):1400-1407
Notes: (J)
actins/endothelium/tyrosine.
12. Bansal, J.; He, J. K.; Yarbough, P. O.; Sen, S.; Constantine, N. T.; Sen, D. "Hepatitis E Virus Infection in Eastern India." Am J Trop Med Hyg 1998; Aug;59(2):258-260
Notes: (J)
Hepatitis E/India.
13. Bartone, P. T.; Adler, A. B.; Vaitkus, M. A. "Dimensions of Psychological Stress in Peacekeeping Operations." Mil Med 1998; 163(9): 587-593
Notes: (J)
stress/international assistance/U.S. Army.
14. Bauer, J. J.; Connelly, R. R.; Sesterhenn, I. A.; Deausen, J.; Srivastava, S.; McLeod, D. G.; Moul, J. W. "Biostatistical Modeling using Traditional Preoperative and Pathological Prognostic Variables in the Selection of Men at High Risk for Disease Recurrence after Radical Prostatectomy for Prostate Cancer." J Urol 1998; Mar;159(3):929-933
Notes: (J)
prostatic neoplasms/prostatectomy.
15. Bauer, J. J.; Srivastava, S.; Connelly, R. R.; Sesterhenn, I. A.; Preston, D. M.; McLeod, D. G.; Moul, J. W. "Significance of Familial History of Prostate Cancer to Traditional Prognostic Variables, Genetic Biomarkers, and Recurrence after Radical Prostatectomy." Urology 1998; Jun;51(6):970-976
Notes: (J)
prostate cancer/prognostic/prostatectomy.

16. Bauman, R. A.; Widholm, J. J.; Ghosh, S.; Kant, G. J.
"Sustained Stress Disrupts the Performance and
Acquisition of Delayed Alternation in Rats."
Physiol Behav 1998; Jun;64(4):507-512
Notes: (J)
conditioning/stress/avoidance learning.
17. Belkiad, Y.; Kamhawi, S.; Modi, G.; Valenzuela, J.;
Noben-Trauth, N.; Rowton, E. D.; Ribeiro, J.; Sacks,
D. L. "Development of a Natural Model of
Cutaneous Leishmaniasis: Powerful Effects of Vector
Saliva and Saliva Preexposure on the Long-Term
Outcome of Leishmania Major Infection in the mouse
ear Dermis." J Exp Med 1998; Nov;188(10):1941-1953
Notes: (J)
Leishmaniasis major/cutaneous Leishmaniasis/dermis/
cell extracts.
18. Berman, J. D. "Chemotherapy of Leishmaniasis Recent
Advances in the Treatment of Visceral Disease."
Curr Opin Infect Dis 1998; 11(6):707-710
Notes: (J)
Leishmaniasis/amphotericin B lipid complex/
visceral disease.
19. Berman, J. D.; Badaro, R.; Thakur, C. P.; Wasunna, M. K.;
Behbehani, K.; Davidson, R.; Kuzoe, F.; Pang, L.;
Weerasuriya, K.; Bryceson, A. D. "Efficacy and Safety
of Liposomal Amphotericin B [AmBisome] for Visceral
Leishmaniasis in Endemic Developing Countries."
Bull World Health Organ 1998; 76(1):25-32
Notes: (J)
Leishmaniasis/amphotericin B/Brazil.
20. Berry, N.; Chakrabarti, A. K.; Gur, R.; Mathur, M. D.;
Vaughn, D. W. "Serological Investigation of a Febrile
Outbreak in Delhi, India, using a Rapid
Immunochromatographic Test - Author's Reply."
J Clin Microbiol 1998; Sep;36(9):2795-2796
Notes: (J)
antibodies/dengue/India.

21. Bettencourt, M. C.; Bauer, J. J.; Sesterhenn, I. A.; Connally, R. R.; Moul, J. W. "CD34 Immunohistochemical Assessment of Angiogenesis as a Prognostic Marker for Prostate Cancer Recurrence after Radial Prostatectomy." J Urol 1998; Aug;160(2):459-465
Notes: (J)
prostate cancer/angiogenesis/radial prostatectomy.
22. Beyrer, C.; VanCott, T. C.; Peng, N. K.; Artenstein, A.; Duriasamy, G.; Nagaratnam, M.; Saw, T. L.; Hegerich, P. A.; Loomis-Price, L. D.; Hallberg, P. L.; Ettore, C. A.; Nelson, K. E. "HIV Type 1 Subtypes in Malaysia, Determined with Serologic Assays: 1992-1996." AIDS Res Hum Retroviruses 1998; Dec;14(18):1687-1691
Notes: (J)
HIV-1/Amino acid sequence/molecular sequence data/Malaysia.
23. Bhattacharjee, A. K.; Karle, J. M. "Functional Correlation of Molecular Electronic Properties with Potency of Synthetic Carbinolamine Antimalarial Agents." Bioorg Med Chem 1998; Oct; 6(10):1927-33
Notes: (J)
antimalarials/phenanthrenes/pyridines/quinolines.
24. Bienvenu, R. V. "On-Site Psychological Screening in Bosnia." WRAIR-TR-99-010 1998; (27):1-2
Notes: (R)
A365395
USAREUR/joint medical surveillance screening/psychological screening/Bosnia.
25. Blair, P. J.; Riley, J. L.; Levine, B. L.; Lee, K. P.; Craighead, N.; Francomano, T.; Perfetto, S. J.; Gray, G. S.; Carreno, B. M.; June, C. H. "Cutting Edge: CTLA-4 Ligation Delivers a Unique Signal to Resting Human CD4 T Cells that Inhibits Interleukin-2 Secretion but Allows Bcl-X-L Induction." J Immunol 1998; Jan;160(1):12-15
Notes: (J)
antibodies/cell cycle/interleukin-2/T lymphocytes.

26. Bliese, P. D. "Group Size, ICC Values, and Group-Level Correlations: A Stimulation." Organizational Res Methods 1998; Oct;1(4):355-373
Notes: (J)
A365371.
ICC values/group size/group-level correlations.
27. Bliese, P. D.; Escolas, S. M.; Castro, C. A.; Christ, R. E. "Human Dimensions Assessment of the Task Force XXI Advanced Warfighter Experiment." WRAIR-TR-98-0002 1998; Jul:1-43
Notes: (R)
A349889
force modernization/mobilizing/work family conflict/readiness.
28. Braun, A. R.; Balkin, T. J.; Wesensten, N. J.; Gwadry, F.; Carson, R. E.; Varga, M.; Baldwin, P.; Belenky, G.; Herscovitch, P. "Dissociated Pattern of Activity in Visual Cortices and Their Projections During Human Rapid Eye Movement Sleep." Science 1998; Jan;279(5347):91-95
Notes: (J)
brain mapping/dreams/prefrontal cortex/sleep.
29. Brewer, T. G.; Genovese R. F.; Newman D. B.; Li Q. G.; "Factors Relating to Neurotoxicity of Artemisinin Antimalarial Drugs 'Listening to Arteether'." Med Trop 1998; 58(Supp3):22-27
Notes: (J)
antimalarials/brain diseases/sesquiterpenes.
30. Broadhurst, L. E.; Kelly, D. J.; Chan, C-T.; Smoak, B. L.; Brundage, J. F.; McClain, J. B.; Miller, R. N. "Laboratory Evaluation of a Dot-Blot Enzyme Immunoassay for Serologic Confirmation of Illness Due to *Rickettsia Conorii*." J Trop Med Hyg 1998; 59(6)
Notes: (J)
Rickettsia conorii/dipstick assay/enzyme immunoassay/South African tick typhus.

31. Brueckner, R. P.; Coster, T.; Wesche, D. L.; Shmuklarsky, M. J.; Schuster, B. G. "Prophylaxis of *Plasmodium falciparum* Infection in a Human Challenge Model with WR 238605, A New 8-Aminoquinoline Antimalarial." Antimicrob Agents Chemother 1998; May; 42(5):1293-1294
Notes: (J)
A348012.
Plasmodium falciparum/human/malaria.
32. Brueckner, R. P.; Lasseter, K. C.; Lin, E. T.; Schuster, B. G. "First-Time-In-Humans Safety and Pharmacokinetics of WR 238605, a New Antimalarial." Am J Trop Med Hyg 1998; May; 58(5):645-649
Notes: (J)
A348245.
malaria/chemotherapy/safety/pharmacokinetics.
33. Buchanan, K. C.; Burge, R. R.; Ruble, G. R. "Evaluation of Injectable Anesthetics for Major Surgical Procedures in Guinea Pigs." Contemp Top Lab Anim Sci 1998; Jul; 37(4):58-63
Notes: (J)
anesthetics/chemical actions/surgical procedures.
34. Calkins, M. D.; Kuzma, P. J.; Karan, S. M. "Understanding the Cardiac Transplant Patient and Anesthetic Management for Noncardiac Surgery." Am J Anesthesiol 1998; 25(1):25-30
Notes: (J)
A342079.
noncardiac surgery/cardiac transplant.
35. Campbell, S. J.; Ritzer, D. R.; Valentine, J. N.; Gifford, R. K. "Operation Joint Guard (SFOR) Bosnia: Assessment of Operational Stress and Adaptive Coping Mechanism of Soldiers." WRAIR-TR-99-003 1998; 1-67
Notes: (R)
A360892.
Operation Joint Guard/Peacekeeping/stress/Bosnia.
36. Campiani, G.; Kozikowski, A. P.; Wang, S. M.; Ming, L.; Nacci, V.; Saxena, A.; Doctor, B. P. "Synthesis and Anticholinesterase Activity of Huperzine A Analogues Containing Phenol and Catechol Replacements for the Pyridone Ring." Bioorg Med Chem Letters Jun; 8(11):1413-1418
Notes: (J)
huperzine A/phenol/catechol/pyridone ring.

37. Carr, J. K.; Salminen, M. O.; Albert, J.; Sanders-Buell, E.; Gotte, D.; Birx, D. L.; McCutchan, F. E. "Full Genome Sequences of HIV Type 1 Subtypes G and A/G Intersubtype Recombinants." Virology 1998; Jul;247(1):22-31
Notes: (J)
HIV-1/base sequence/genome.
38. Carroll, R. G.; Riley, J. L.; Levine, B. L.; Blair, P. J.; St. Louis, D. C.; June, C. H. "The Role of Co-Stimulation in Regulation of Chemokine Receptor Expression and HIV-1 Infection in Primary T Lymphocytes." Semin Immunology 1998; Jun;10(3):195-202
Notes: (J)
HIV/T lymphocytes/antigens/chemokines.
39. Casleton, B. C.; Salata, K.; Dasch, G. A.; Strickman, D.; Kelly, D. J. "Recovery and Viability of Orientia tsutsugamushi from Packed Red Cells and the Danger of Acquiring Scrub Typhus from Blood Transfusion." Transfusion 1998; Jul;38(7):680-689
Notes: (J)
Orientia tsutsugamushi/scrub typhus/blood transfusion
40. Castro, C. A. "The Impact of Deployment Length on Soldier Morale, Cohesion, and Mental Health." WRAIR-TR-99-009 1998; (26):1-2
Notes: (R)
USAREUR/Operation Joint Endeavor/deployment length/morale.
41. Chaicumpa, W.; Srimanote, P.; Sakolvaree, Y.; Kalampaheti, T.; Chongsa-Nguan, M.; Tapchaisri, P.; Eampokalap, B.; Moolasart, P.; Nair, G. B.; Echeverria, P. "Rapid Diagnosis Of Cholera Caused By Vibrio Cholerae 0139." J Clin Microbiol 1998; 36(12):3595-3600
Notes: (J)
vibrio cholera/ELISA assay/lipopolysaccharide/serotype 0139.

42. Chakrabarti, A. K.; Ray, P.; Broomfield, C. A.; Ray, R. "Purification and Characterization of Protease Activated by Sulfur Mustard in Normal Human Epidermal Keratinocytes." Biochem Pharmacol 1998; Aug;56(4):467-472
Notes: (J)
A354132.
sulfur mustard/protease/human epidermal keratinocytes /protease purification/laminin.
43. Chiang, P. K. "Biological Effects of Inhibitors of S-Adeno-sylhomocysteine Hydrolase." Pharmacol Ther 1998; Feb;77(2):115-134
Notes: (J)
enzymes/hydrolases/cell hypoxia.
44. Ching, W. M.; Wang, H.; Eamsila, C.; Kelly, D. J.; Dasch, G. A. "Expression and Refolding of Truncated Recombinant Major Outer Membrane Protein Antigen (r56) of Orientia tsutsugamushi and its use in Enzyme-Linked Immunosorbent Assays." Clin Diagn Lab Immunol 1998; Jul;5(4):519-526
Notes: (J)
Orientia tsutsugamushi/outer membrane/ protein antigen.
45. Clark, K. L.; Krauss, M. R.; Kelley, P. W.; Onaitis, J.; Li, Y. "1997 Accession Medical Standards Analysis Research Activity (AMSARA)." WRAIR-TR-98-0001 1998; Feb:1-65
Notes: (R)
Military standards/preventive medicine/ information sciences.
46. Clayson, E. T.; Vaughn, D. W.; Innis, B. L.; Shrestha, M. P.; Pandey, R.; Malla, D. B. "Association of Hepatitis E Virus with an Outbreak of Hepatitis at a Military Training Camp in Nepal." J Med Virol 1998; Mar;54(3):178-182
Notes: (J)
Hepatitis E virus/RT-PCR/Military training camp/ Nepal.

47. Clements-Mann, M. L.; Weinhold, K.; Matthews, T. J.; Graham, B. S.; Gorse, G. J.; Keefer, M. C.; McElrath, M. J.; Hsieh, R. H.; Mestecky, J.; Zolla-Pazner, S.; Mascola, J. R.; Schwartz, D.; Siliciano, R.; Corey, L.; Wright, P. F.; Belshe, R.; Dolin, R.; Jackson, S.; Xu, S.; Fast, P.; Walker, M. C.; Stablein, D.; Exler, J. L.; Tartaglia, J.; Duliege, A. M.; Sinangil, F.; Paoletti, E. "Immune Responses to Human Immunodeficiency Virus (HIV) Type 1 Induced by Canarypox Expressing HIV-1(MN) gp120, HIV-1(SF2) Recombinant gp120, or Both vaccines in Seronegative Adults." J Infect Dis 1998; May;177(5):1230-1246
Notes: (J)
HIV/vaccines/adults.
48. Coleman, G. D.; Chavez, M. A.; Williams, B. H. "Cystic Prostatic Disease Associated with Adrenocortical Lesions in the Ferret (*Mustela Putorius Furo*)."Vet Pathol 1998; Nov;35(6):547-549
Notes: (J)
adrenal cortex/neoplasms/cysts/ferrets (*Mustela putorius furo*).
49. Colwell, R.; Epstein, P.; Gubler, D.; Hall, M.; Reiter, P.; Shukla, J.; Sprigg, W.; Takafuji, E.; Trtanj, J. "Global Climate Change and Infectious Diseases."Emerg Infect Dis 1998; Jul;4(3):451-452
Notes: (J)
climate/communicable diseases/world.
50. Cuzzubbo, A. J.; Vaughn, D. W.; Nisalak, A.; Suntayakorn, S.; Askov, J.; Devine, P. L. "Detection of Specific Antibodies in Saliva During Dengue Infection."J Clin Microbiol 1998; 36(12):3727-3739
Notes: (J)
dengue virus/ELISA assay/enzyme immunoassay.

51. Demeter, L. M.; D'Aquila, R.; Weislow O.; Lorenzo, E.; Erice, A.; Fitzgibbon, J.; Shafer, R.; Richman, D.; Howard, T. M.; Zhao, Y. Q.; Fisher, E.; Huang, D.; Mayers, D. L.; Sylvester, S.; Arens, M.; Sannerud, K.; Rasheed, S.; Johnson, V.; Kuritzkes, D.; Reichelderfer, P.; Japour, A. "Interlaboratory Concordance of DNA Sequence Analysis to Detect Reverse Transcriptase Mutations in HIV-1 Proviral DNA. ACTG Sequencing Working Group. AIDS Clinical Trials Group." J Virol Methods 1998; Nov;75(1):93-104
Notes: (J)
codon/HIV-1/polymerase chain reaction/zidovudine.
52. Ding, X. Z.; Tsokos, G. C.; Kiang, J. G. "Overexpression of HSP-70 Inhibits the Phosphorylation of HSF1 by Activating Protein Phosphatase and Inhibiting Protein Kinase C Activity." FASEB J 1998; Apr;12(6):451-459
Notes: (J)
A348006.
gene transfection/heat shock proteins/PP activity/
gene transcription/PKC activity.
53. Dishman, R. K.; Bunnell, B. N.; Youngstedt, S. D.; Yoo, H. S.; Mougey, E. H.; Meyerhoff, J. L. "Activity Wheel Running Blunts Increase Plasma Adrenocorticotrophin (ACTH) after Footshock and Cage-Switch Stress." Physiol Behav 1998; Mar;63(5):911-917
Notes: (J)
exercise/cross-stressor responsiveness/corticosterone/prolactin.
54. Drabick, J. J.; Bhattacharjee, A. K.; Hoover, D. L.; Siber, G. E.; Morales, V. E.; Young, L. D.; Brown, S. L.; Cross, A. S. "Covalent Polymyxin B Conjugate with Human Immunoglobulin G as a Antiendotoxic Reagent." Antimicrob Agents Chemother 1998; Mar;42(3):583-588
Notes: (J)
A342083.
polmyxin B/PMB-IgG conjugate/anti-endotoxin reagent/
human immunoglobulins.

55. Dubey, J. P.; Abbitt, B.; Topper, M. J.; Edwards, J. F.
"Hydrocephalus Associated with Neospora Caninum
Infection in An Aborted Bovine Fetus."
J Comp Pathol 1998; Feb; 118(2):169-173
Notes: (J)
neospora caninum/tospoplasma gondil/hydrocephalus/
bovine fetus.
56. Dubey J. P.; Hamir, A. N.; Sonn, R. J.; Topper, M. J.
"Cryptosporidiosis in a Bat (*Eptesicus Fuscus*)."
J Parasitol 1998; Jun; 84(3): 622-623
Notes: (J)
parasitic diseases/cryptosporidiosis/*Eptesicus fuscus*
/bats.
57. Dubey, J. P.; Rudrack, F.; Topper, M. J. "Sarcocystosis in
Capercalif Itetrao Urogalus in Finland: Description
of the." J Parasitol 1998; Feb; 84(1):104-108
Notes: (J)
sarcocystosis/brain/Finland.
58. Dubey, J. P.; Topper, M. J.; Nutter, F. B. "Muscular
Sarcocystis Infection in a Bear (*Ursus Americanus*)."
J Parasitol 1998; Apr; 84(2):452-454
Notes: (J)
sarcocystis/bear/*Ursus Americanus*.
59. Elsayed, N. M. "Toxicity of Nitrogen Oxides."
In: N-Centered Radicals 1998; 181-206
Notes: (C)
air pollution/toxicity/nitrogen oxides.
60. Feighner, B. H.; Pak, S. I; Novakoski, W. L.; Kelsey, L.
L.; Strickman, D. "Reemergence of *Plasmodium Vivax*
Malaria in the Republic of Korea."
Emerg Infect Dis 1998; Apr; 4(2):295-297
Notes: (J)
malaria/*Plasmodium vivax*/antimalarials/Korea.

61. Fernandez-Prada, C. M.; Tall, B. D.; Elliot, S. E.; Hoover, D. L.; Nataro, J. P.; Venkatesan, M. M. "Hemolysin-Positive Enteropathogenic and Cell-Detaching *Escherichia Coli* Strains cause Oncosis of Human Monocyte-Derived Macrophages and Apoptosis of J774 Cells." Infect Immun 1998; Aug;66(8):3918-3924
Notes: (J)
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