



Tropical Medicine Hygiene News

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Annual Meeting Update

This year's annual meeting will take place from November 11 - 15, 2001, at the Hilton Atlanta Hotel and Towers. Hotel information is available on the web at www.astmh.org or by calling (847 480 9592) or emailing (astmh@astmh.org) the Society office in Northbrook, IL. A brochure with meeting and registration details will be mailed in August. Preliminary program highlights are given below:

- **On-site registration** will begin at noon on Sunday, on the second floor lobby.
- **Young Investigators' competitions** will take place from 1:30 to 3:30 PM Sunday afternoon. As there are multiple concurrent sessions, please check for the room assignment when you arrive.
- The **Student wine and cheese reception** will follow the Young Investigators competitions, and take place at 4:00 PM Sunday in the Clayton Room.
- The **Opening Reception** will take place at 7:30PM on Sunday, November 11th, AFTER the first plenary session;
- **Society awards** will be presented in the Grand Ballroom 5:30PM Sunday.

- **Symposia:**

- *Monday morning:* Mucosal immunity, Emerging Infections, Malaria and Travel, Malaria Vaccines, GPI Anchors, MIM/TDR, Ebola, GM Vector Release
- *Monday afternoon:* ACME
- *Monday evening:* Late Breakers in Clinical Tropical Medicine and Molecular Biology
- *Tuesday morning:* Military Health, Pediatric Travel, Dengue Vaccines, Bednet Trials, Schistosomiasis Diagnosis, Trichomonas, Transgenic Insects, Amoeba Genome
- *Tuesday Afternoon:* Genomics and ACAV Symposia
- *Tuesday evening:* Waterborne Diseases, NIH Grants, Malarone
- *Wednesday morning:* Roll Back Malaria, Molecular Parasitology, International Clinical Research, Bioethics; Repellents, Schistosomiasis Immunology; Intellectual Property; RNA Virus Recombination
- *Thursday morning:* Exotic Pathogens

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SOCIETY NOTES

- **Subgroup business sessions:** ACAV (1:30 Sunday), ACCTMTH (2:30 Wednesday), ACME (1:00 Sunday afternoon), SIRACA (noon Sunday)
- **Meet the Professor Sessions:** At midday on Monday, Tuesday and Wednesday
- **The Pre-Meeting Course,** "Updates in Special Bacterial Pathogens," will be held on November 10-11, immediately preceding the ASTMH 50th Annual Meeting. This one and one-half day course will focus on new developments in special bacterial pathogens, such as those that cause plague, anthrax, botulism, melioidosis, shigellosis, and others.
- **Certification Exam 2001.** The Certification Examination Committee has scheduled the next exam to take place in conjunction with the ASTMH Meeting, November 11-15, 2001 at the Hilton Atlanta Hotel and Towers in Atlanta, Georgia. Applicants who have previously sat for the exam may re-take the test. All other applicants must apply via the diploma course pathway. See the ASTMH web site at www.astmh.org for more information.



Don Burke (on the left, with Society Councillor Larry Laughlin, is the Chairman of the Legislative Affairs Committee. He testified on behalf of the Society at recent appropriations hearings.

- **Late-Breaker Abstracts.** ASTMH is currently accepting late-breaker abstract submissions at abstract.cornetser.com. Submit your abstract on-line for the late-breaker sessions in clinical tropical medicine or molecular biology.

Tropical Medicine & Hygiene News

Official Bulletin of the American Society of Tropical Medicine and Hygiene

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- **Student Book Award.** ACCTMTH, in conjunction with Oxford University Press, will award a Student Book Prize at the ASTMH 50th Annual Meeting. The award recognizes excellence in research presented by a student at the annual meeting. To obtain an application, visit the ASTMH web site at www.astmh.org or e-mail astmh@astmh.org. The application deadline is September 1.

Intensive Review Course in Clinical Tropical Medicine and Travelers' Health. ASTMH will hold an Intensive Review Course in Clinical Tropical Medicine and Travelers' Health on October 23-24, 2001 at the Hilton San Francisco Hotel and Towers in San Francisco, California. This course will immediately precede the annual meeting of the Infectious Diseases Society of America (IDSA), also being held in San Francisco. The course provides a broad overview of core topics in clinical tropical medicine and travelers' health. Presented in a two-day condensed format, it is an excellent review for health care professionals. It should also be of assistance to individuals planning to take the ASTMH exam. For more information on this course, visit the ASTMH web site at www.astmh.org or contact astmh@astmh.org.

Society, Lobbyists Have Impact On Congressional Action The Society employs the services of Capitol Associates, which tracks legislative actions of interest to the membership and arranges for Society members to testify before Congress during the appropriation hearings. One issue they are tracking is the proposed vaccine tax credit (see Current Trends, below). Earlier this Spring, ASTMH presented testimony at public witness hearings before four Appropriation Subcommittees: Dr. Chris Plowe from the University of Maryland Center for Vaccine Development presented testimony to the House Labor-HHS- Education Subcommittee in support of NIH funding and funding for the National Institute of Allergy and Infectious Diseases and the Fogarty International Center; Dr. Robert Edelman, from the University of Maryland School of Medicine presented testimony to the House Foreign Operations Subcommittee in support of the research, education and prevention activities targeted to global infectious disease undertaken by the U.S. Agency for International Development (USAID); Dr. Edelman also presented testimony to the House Defense Appropriations Subcommittee in support of the military infectious disease program, including the Department's HIV Research effort, and the Department's overseas labs; and Dr. Don Burke from Johns Hopkins

School of Hygiene and Public Health presented similar testimony before the Senate Defense Appropriations Subcommittee. The status of Appropriations legislation will be summarized in the August issue of the *News*. (These bills are always controversial and held for consideration late in the budget season.) Other items of particular interest to members of the ASTMH members:

- *Global Health Act of 2001* The ASTMH has endorsed the Global Health Act of 2001, legislation recently reintroduced in the 107th Congress. This legislation calls for a \$1 billion increase for global health programs, including an additional \$275 million for HIV/AIDS; an additional \$225 million for child survival programs; an additional \$200 million for international family planning; an additional \$200 million for global infectious diseases; and an additional \$100 million for maternal health. The ASTMH endorsed the Global Health Act of 2000, which helped to generate momentum resulting in a 30% increase for federally-funded global health programs in fiscal year 2001.
- *Tuberculosis Rep.* Sherrod Brown (D-OH) has sponsored two new bills to fight tuberculosis in the United States and abroad. H.R. 1167, the "Comprehensive Tuberculosis Act of 2001," is co-sponsored by Reps. Greg Ganske (R-IA), Connie Morella (R-MD), and Henry Waxman (D-CA). The legislation would triple the NIH budget for tuberculosis research to \$240 million, with the goal of developing better screening, treatment, and a vaccine for the disease. The legislation would also expand tuberculosis efforts at the Centers for Disease Control and Prevention to \$528 million, including improvements suggested in a 2000 Institute of Medicine (IOM) report, such as improved outreach and screening to high-risk populations. In addition, Rep. Brown has introduced H.R. 1168, the "Stop TB Now" bill, with Rep. Morella. The legislation would authorize \$200 million for international efforts to eliminate the disease, with the majority of the money to be used for Directly Observed Treatment, Short Course (DOTS) therapy in countries with a high incidence of tuberculosis. Funding from the bill could also be used to fight multi-drug resistant tuberculosis, and to finance the World Health Organization's Global TB Drug Facility.

Gorgas Memorial Institute Research Award.

This monetary research award was designed to enhance and facilitate the development of scientific linkages between Panama, nations of Central America and the Caribbean Islands, and the United States through support of short-term travel for young research investigators from these regions for the purposes of: (1) establishing collaborative biomedical research projects focusing on tropical diseases of health importance to people living in these areas, and (2) learning new techniques and approaches applicable to the study of such diseases. The application deadline is **August 1, 2001**. For application guidelines, visit the ASTMH web page at www.astmh.org or request an application from astmh@astmh.org.

Burroughs Wellcome Fund-ASTMH Postdoctoral Fellowship in Tropical Infectious Diseases. This postdoctoral fellowship provides research support for individuals to perform research in tropical infectious diseases. Funding is available for a twelve-month period, at least three of which must be spent working on research in a collaborative site in a tropical or developing area. This fellowship does not provide funding support for overseas clinical electives or experiences. The purpose of this fellowship is to stimulate interest in research in tropical infectious diseases. This fellowship provides funding support for individuals who are planning long-term involvement in infectious disease research pertinent to tropical or developing areas of the world. The application deadline is **September 15, 2001**. Applications are available on the ASTMH web site at www.astmh.org, or from astmh@astmh.org.

Tropical Medicine Association of Washington (TMAW) This group, which meets monthly during the academic year at the National Institutes of Health in Bethesda, Maryland, is the only approved local chapter of the Society. TMAW sponsors seminars by leading scientists who pass through the NIH campus as well as leaders whom it invites for its regular, third Thursday evening meetings. Membership dues are nominal and this is a wonderful opportunity to support younger tropical medicine researchers and physicians. Contact Ralph P. Eckerlin reckerlin@nv.cc.va.us, the current TMAW President, for additional information about the 2001-2002 seminars.

CURRENT TRENDS

The 28th Annual Conference of the Global Health Council was held in Washington May 29 - June 1, 2001. Conference co-chairs **Melinda French Gates, Graça Michel** and **Allan Rosenfield** presided over an agenda with the theme "Healthy Women, Healthy World: Challenges for the Future". Secretary-General **Kofi Annan** delivered the keynote address at the Awards Banquet, the featured event. **Dr. David Sack** received the Gates Award for Global Health and a \$1 million prize on behalf of the Centre for Health and Population Research (formerly the ICDDR,B) in recognition of the development of oral rehydration solution. This was the first year for the Gates Award, which recognizes an organization that has made a major and lasting contribution to the field of global health. **Dr. Gao Yoajie**, a gynecologist from rural China, received the Jonathan Mann Award for Health and Human Rights for her campaign to stop the practice of impoverished rural people selling their blood to supplement their incomes. Dr. Gao discovered the use of unsterile, reused supplies was spreading HIV in the population, and her campaign to bring this to the attention of the population resulted in censure by the local authorities and her being denied an opportunity to travel to receive the recognition. This is the third consecutive year that the recipient of the Jonathan Mann Award has been unable to travel abroad to be recognized by the Global Health Council. **Sydia Nduna** received the Best Practices in Global Health award for her work in eliminating sexual and gender-based violence in refugee communities. *[Contributed by George Curlin]*

Proposed Vaccine Tax Credit stalls *[From Capitol Associates]* One of the issues being tracked by Capitol A is a proposed vaccine tax credit. It would provide a credit of up to 30 percent for the costs of research and development involved in developing vaccines for widespread diseases, including malaria, TB, and HIV. The provision has been championed by Senator John Kerry (D-MA) in the Senate and similar legislation has been introduced in the House by Congresswoman Nancy Pelosi (D-CA). Unfortunately this provision was dropped in the House-Senate conference negotiations on the final tax package. There may be other opportunities (i.e. legislation) to move this provision when Congress returns from the Memorial Day recess. The ASTMH played an active role in advocating this provision as part of the Millennium Vaccine Initia-

tive in the 106th Congress and will look for opportunities to provide active support for this initiative in the 107th Congress.

Polio Cases Diagnosed in Bulgaria Two cases of polio have recently been diagnosed in Bulgaria. In March a girl in the Bulgarian seaport of Burgas was paralysed by the disease, and a second case of paralysis was confirmed in the area on 11 May. Gene sequences of the strain responsible match a wild strain from India. In Hispaniola there were earlier reports of polio caused by a vaccine virus strain that mutated to regain its disease-causing ability (see *Nature* 409, 278–280; 2001). Because the polio virus only causes paralysis in a small percentage of the people who are infected, and the symptoms are usually mild and transient — each case reflects significant transmission. Both of the affected children belong to Bulgaria's gypsy population, the Roma, whose transient lifestyle makes effective vaccination difficult. The girl paralysed in March had not been vaccinated; her doctor decided not to expose her to the vaccine because her general health was weak. The WHO has already spearheaded a massive vaccination effort in the coming weeks targeting around 130,000 Roma children as well as hundreds of thousands of other Bulgarian children under seven years of age. The goal of eradication has been complicated by the discovery. *Abstracted from Nature* 411, 405 (2001)

Secretary of State Powell in Africa Opening a four-nation African tour, Secretary of State Colin Powell asserted Wednesday that Africa is a priority for the Bush administration. He pledged more U.S. support for evolving democracies and for combating the AIDS epidemic. The first black to serve as secretary of state, Powell began his tour in Mali, one of the world's poorest nations. Powell also was to visit South Africa, Kenya and Uganda. He met with Mali's president, Alpha Oumar Konare and then visited a center, largely U.S. funded, where research is under way on various aspects of malaria. Hundreds thronged outside the research center clinic, some boys climbing up trees to get a better perch, and they erupted in applause when Powell came out of the building. He told the crowd, "President Bush has made a commitment to do everything the United States can do to solve the problem of communicable diseases." At the presidential palace, Konare presented Powell with a live ram as a gift. Powell's aides said that the gift ram would likely be given to a village or family in Mali. "Obviously, I'm moved by the fact that I'm the first African-American secretary of state to visit Africa," Powell said on his plane. Traveling with his

wife, Alma, Powell said the experience brought an "emotional twinge" On other subjects, Powell predicted that the administration would increase its political and humanitarian efforts to help victims of the long civil war in Sudan. He defended Bush's announcement of a \$200 million U.S. contribution to a global fund of \$5 billion to \$7 billion to combat AIDS — against criticism that it was inadequate. "I don't think America has anything to apologize for," he said, saying the amount was just "seed money" and that more would come later. Powell was last in Africa two years ago, when he joined former President Carter in helping monitor elections in Nigeria. *Abstracted from the New York Times*.T

Tenth Annual ICTDR Meeting The Annual Meeting of the NIAID International Centers for Tropical Disease Research (ICTDR) took pace in Bethesda at the Lister Hill Auditorium of the National Library of Medicine, May 7-9, 2001. The meeting marked the Tenth Anniversary of the ICTDR program, established by NIAID to build new and strengthen established partnerships between: (1) U.S. scientists and investigators from tropical disease endemic areas; (2) NIAID and other government agencies with interests in tropical disease research; and (3) academic scientists and private industry, to encourage translational and collaborative research. Dr. Anthony Fauci opened the meeting on Monday, May 7th, with a presentation of the new NIAID Global Health Research Plan for HIV/AIDS, Malaria and Tuberculosis (on the web at www.niaid.nih.gov/publications/globalhealth/global.pdf). The NIAID plan highlights four key research areas common to all three illnesses: vaccine and prevention studies, drug development, diagnostics, and research capability strengthening within endemic areas. The ICTDR meeting included scientific sessions on :Development of Diagnostics for Tropical Diseases: 10 Years of Progress; Understanding the Pathogenesis of Tropical Diseases; A Decade of Vector Research; Molecular-Based Research in Tropical Diseases: Targets and Treatments; and, Progress Toward Vaccines for Tropical Diseases. Immediately following the ICTDR meeting, the Fogarty International Center hosted a meeting of several of its international training programs. *[Contributed by Stephanie James]*

A recent issue of *MMWR* commemorates **the 50th anniversary of the Epidemic Intelligence Service (EIS)**. In 1951, EIS was established by CDC following the start of the Korean War as an early-warning system against biologic warfare and man-made epidemics. EIS officers selected for 2-year

CURRENT TRENDS (CONT'D.)

field assignments were primarily medical doctors and other health professionals, such as sanitarians, dentists, and veterinarians, who focused on infectious disease outbreaks. EIS has expanded to include a range of public health professionals, such as postdoctoral scientists in statistics, epidemiology, microbiology, anthropology, sociology, and behavioral sciences. The scope of work also has expanded to include chronic disease, environmental health, unintentional injury, violence prevention, and workplace health and safety. Since 1951, approximately 2500 EIS officers have responded to requests for epidemiologic assistance within the United States and throughout the world. Each year, EIS officers are involved in several hundred investigations of disease and injury problems, enabling CDC and its public health partners to make recommendations to improve the public's health and safety. Additional information about EIS and its 50th anniversary is available at <http://www.cdc.gov/eis>.

The long awaited **SIMA Stakeholders' Consultation** was successfully held in Nairobi from 14-16 May 2001. Support for the workshop was provided by IDRC, USAID, IWMI and ICRAF. The consultation was attended by 40 participants drawn from CGIAR Centers, other international centers and institutions of advanced research, donor representatives, and scientist-teams from six countries from the East and Southern African region. Setting the stage for stakeholders' discussions in the Nairobi meeting were presentations of several papers on malaria and agroecosystems, together with the synthesis report of the SIMA electronic discussion (Feb. - May 2001). By having a diverse representation of stakeholders at the Nairobi consultation, it was possible to simultaneously capture the global (CGIAR) and country/regional elements of the SIMA program. Insights on the latter were obtained by learning from experiences and expectations of the countries in East and Southern Africa. In order for SIMA to have the widest-possible perspective on different geographic and ecological settings, future stakeholder meetings have been proposed for venues in other regions including West and Central Africa, Asia, and South America, respectively. The outcome of the Nairobi consultation has already been compiled into a "SIMA ACTION PLAN" document, to be posted on the SIMA website www.iwmi.org/sima.htm. Comments will be welcome. [from Clifford Mutero]

Good News and Bad News from Harare On balance the good news outweighed the bad news presented at the Symposium on Insecticide Resistance in African Malaria Vectors convened by the Multilateral Initiative on Malaria (MIM) in Harare, Zimbabwe March 9-12. The symposium aimed to bring together the African and non-African vector biologists to present their research on the status of insecticide resistance, the impact on malaria transmission related to insecticide treated bednets and the alternatives for dealing with resistance within malaria control programs. *Good news*- more than thirty African vector biologists from 14 countries, primarily MIM/TDR grantees and their collaborators, contributed to this timely and unprecedented focus on vector research specific to sub-Saharan malaria transmission. Field and laboratory methods have been developed specifically to address the African vector situation and investigators are poised to contribute to evidence based malaria control strategies across the continent. *Bad news*- Pyrethroid resistance has been detected in all major vector species throughout endemic Africa, reaching 90% of the vector population in some west African settings, although some chromosomal forms are less likely to become resistant than others. *Good News*: In contrast, much less resistance was reported in East Africa. No resistance was detected in the three primary vectors in Tanzanian villages using pyrethroid treated bednets since 1988 or in mosquitoes collected from cotton estates with long histories of pyrethroid or other insecticide use. No one understands why the situation differs from that found in West Africa.. *Bad News*: There are multiple resistance mechanisms and potential sources of insecticide resistance selection. In West Africa molecular assays have been used to detect specific mutations in the *An. gambiae* sodium channel target gene that correspond to resistance. Convincing evidence was presented that high levels of insecticide resistance are induced in *An. gambiae* larvae exposed to contaminated runoff from cotton and vegetable fields. Studies on pyrethroid resistance *An. gambiae* collected during a bednet trial in western Kenya display a combination of resistance mechanisms. In contrast, the recent dramatic increase in malaria in parts of South Africa coincided with the reappearance of *An. funestus* metabolically resistance to pyrethroids, presumed to have migrated from Mozambique. In response to this data, malaria control by residual DDT house spraying was reinstated. *Good news*- Surprisingly, studies in the Ivory coast in areas of high resistance show that pyrethroid treated bednets still reduce EIR and the

incidence of malaria episodes in children. Pyrethroid repellency appears to maintain the efficacy of bednets and offers a new avenue for vector control interventions. Fundamental research opportunities abound to address these puzzling observations. *[Contributed by Barbara Sina.]*

DDT, PCBs Not linked to Higher Rates of Breast Cancer In a press release dated May 15, 2001 the US National Institutes of Health reported an analysis of five northeastern studies that found no link of breast cancer risk to the pesticide DDT or to PCBs, a widespread industrial chemical. The initial studies were funded in 1993 and none reported a link between chemical exposure and breast cancer. Skeptics thought the studies might simply have been too small and that their combined data might reveal such an association, at least for some subgroups of women. That explanation was dashed by the analysis of the combined data. The full results are published in the *Journal of the National Cancer Institute*.

AAMC helps launch new national accrediting organization for human research protection programs At a Capitol Hill press briefing held May 23, the formation of the Association for the Accreditation of Human Research Protection Programs (AAHRPP) - a new nonprofit organization that will offer accreditation to institutions engaged in research involving human participants using a voluntary, peer-driven, and educational model - was announced by its founders. Responding to increased public scrutiny of such research, AAHRPP seeks to both ensure compliance and raise the bar in human research protections by helping institutions reach standards that surpass the threshold of state and federal requirements. AAHRPP is the creation of seven nonprofit founding member organizations representing the leadership of universities, medical schools, and teaching hospitals; biomedical, behavioral, and social scientists; and patient and disease advocacy organizations. They are the AAMC, the Association of American Universities, the Consortium of Social Science Associations, the Federation of American Societies for Experimental Biology, the National Association of State Universities and Land Grant Colleges, the National Health Council, and Public Responsibility in Medicine and Research. Institutions seeking AAHRPP accreditation must conduct a rigorous self-assessment of their research policies and practices, followed by a site visit from AAHRPP accreditors - experts in human research protections. The accreditation process determines whether an institution meets AAHRPP standards and encourages the institution to continuously

improve its human research protection programs. A 21-member board of directors, including representatives from organizations concerned with human participants research, patient representatives, and community stakeholders, will oversee the accreditation process. AAHRPP, which will be located in Rockville, Md., expects to begin pilot-testing its standards by late summer and be fully operational by January 2002. For additional information contact Todd Bentsen, AAMC Office of Communications, 202.828.0989, tbentsen@aamc.org.

Presidential Commission Issues Recommendations for Clinical Trials in Developing Countries

The National Bioethics Advisory Commission (NBAC), seeking to improve the ethical conduct of those conducting international clinical trials, has recommended a series of steps aimed at reducing the risk of exploiting research participants in developing countries. NBAC's report, "Ethical and Policy Issues in International Research: Clinical Trials in Developing Countries," seeks to ensure that clinical trials operated by U.S. companies are responsive to the health needs of the country in which they are conducted and that post-trial access to successful research products is improved. For additional information contact Eric Meslin, Ph.D., NBAC, 301.402.4242. A copy of the report is available at www.bioethics.gov.

Medical Residents, Students, and Others Petition OSHA to Limit Resident Work Hours

The American Medical Student Association joined the Committee of Interns and Residents, Public Citizen, and others to file a petition with the Occupational Safety and Health Administration (OSHA) seeking federal limits on residents' work hours. The petition asks OSHA for an 80-hour limit to a resident's work-week; limitation of shifts to a maximum of 24 consecutive hours; limitation of on-call shifts to every third night; requirement of a minimum of 10 hours off between shifts; and requirement of at least one 24-hour off-duty period per week. The text of the petition is available at www.citizen.org/hrg/PUBLICATIONS/1570.htm.

Cotton growers in Arizona have given a US\$1 million grant to the US Department of Agriculture and the University of California at Riverside to fund research into the control of the cotton pest, the pink bollworm larva of the moth *Pectinophora gossypiella*. The larvae are estimated to cost the US cotton industry US\$200 million annually through crop damage and control costs. To track any cross-species genetic transfer, adult males carrying

a marker gene for a green fluorescent protein from a jellyfish will be released. Ultimately, it is expected that moths carrying a dominant, repressible, lethal gene will be released. The effects of such genes are suppressed in the insects as they develop in the laboratory, but will kill the offspring of those they mate with in the field. In contrast to the use of insecticides, this method of control should not have any serious effects on local ecology because the destruction of the moths, which are not native to the USA, will be highly specific. This will be an important milestone for vector biologists who hope to engineer and release refractory arthropods. *JT BioMedNet Preliminary release of genetically modified moths Janice Taverne Trends in Parasitology, 2001, 17:6:264*

Blocking Genes from Genetically Modified Corn Researchers in Wisconsin have identified a gene in teosinte (a wild cousin of maize) that blocks the introduction of foreign genes, including those from genetically modified corn. This discovery could ensure the genetic integrity of corn, making it easier to export to countries where the population is wary of GMOs. It could also be used as a built in buffer around plantings of engineered corn, to limit the impact on non-target organisms, like monarch butterflies. Jerry Kermicle is the UW genetics professor who discovered the single gene cluster that keeps foreign maize genes out. For additional information see www.news.wisc.edu

ITEMS OF INTEREST

Philip Lawyer is constructing a comprehensive database of sandflies in colonies throughout the world. Information needed includes species, site of origin, approximate number of generations in colony, larval and adult diets and so on. **e-mail: plawyer@usuhs.mil** or contact him at the Department of Preventive Medicine & Biometrics, Uniformed Services University of the Health Sciences, 4301 Jones Bridge Road, Bethesda, MD 20814, USA. Phone: +1 301 295 3735. Fax: +1 301 295 3860

Anti-pesticide group offers pesticide database The Pesticide Action Network, North America (PANNA) offers an online database of over 5000 pesticide ingredients, providing human toxicity, ecotoxicity, and regulatory information on pesticides' active ingredients and transformation products, adjuvants and solvents. <http://www.pesticideinfo.org>

DEATHS

Professor V. Ramalingaswamy Professor V. Ramalingaswamy died on May 28, 2001, at the All India Institute of Medical Sciences (AIIMS), after losing his battle with metastatic prostate cancer. Last year "Rama," as he was affectionately known, was treated at the Memorial Sloan Kettering Cancer Center in New York, with the help of Dr. Harold Varmus, newly appointed Director of the Center. Rama was a strong supporter of Indo-US health research cooperation. He was the Director-General of the Indian Council of Medical Research (ICMR) for seven years during the 1980s, and Director of the All India Institute of Medical Sciences (AIIMS) for about 10 years during the 1970s. During the 1970s, he served on the Indo-US S&T Subcommittee, and during the 1980s served on the Indo-US Blue Ribbon Panel and the Reagan-Gandhi Science and Technology Initiative. He was a Fogarty Scholar in Residence in the late 1980s, and recently served as Chair of the Indo-US Vaccine Action Program Strategic Planning Committee. During his academic and medical career, he was considered a world-class pathologist and nutritionist. The Government of India has honored Prof. Ramalingaswami with several awards, including the "Padam Shri." Rama is survived by a son and a daughter, both of whom live in the United States.

Charles Mérieux Dr. Charles Mérieux died on January 19, 2001, in Lyon, France. He was 94. Dr. Mérieux devoted his entire life to preventive medicine. Dr. Mérieux was greatly influenced by the work of Louis Pasteur, with whom his father had worked as an assistant. Along with Dr. Jonas Salk, he coined the term "vaccinology." Dr. Mérieux was responsible for the industrialization of modern virology in veterinary medicine. He developed a cell culture system that made possible the large-scale production of a vaccine for foot-and-mouth disease. Dr. Mérieux developed the first vaccine against meningococcal meningitis, used in 1975 to immunize the entire population of Brazil. This immunization program was a precursor to National Immunization days, which were introduced in Brazil for polio, paving the way for eradication of the disease. In 1955, Dr. Mérieux founded the International Association for Biological Standardization, and in 1967, he founded the Marcel Mérieux Foundation, with its Pensières Centre in Annency. In 1974, he organized the first seminar on immunization in Africa and subsequently created "Bioforce," a training school for logisticians in the context of developing countries. More recently, in

2000, he established a P4 laboratory for the study of emerging African diseases. Dr. Mérieux received the highest French decoration, the Grand Croix de la Légion d'Honneur, and was awarded honorary doctorates by numerous international universities.

Joseph Melnick and Dorothy M. Horstmann, Polio Pioneers Joseph L. Melnick and Dorothy M. Horstmann, both with important roles in the victory over polio, died in January 2001. Dr. Melnick died on January 7, at age 86, and Dr. Horstmann on January 11, at age 89. Both suffered from Alzheimer's disease. Dr. Melnick was born in Boston, MA, and was a graduate of Wesleyan University. He earned his doctorate in physiological chemistry from Yale, where he remained on the faculty from 1942-1957. Following his tenure at Yale, Dr. Melnick served as virus laboratories chief of the NIH's biologics standards division, after which he joined Baylor University' Medical School faculty as professor of molecular virology; he remained at Baylor, becoming dean of the Biomedical Sciences Graduate School from 1968 until 1991. During his research days, Dr. Melnick classified and named several viruses groups; it was he who demonstrated that the polio virus was a member of the enterovirus family; and he conducted experiments that showed the rarity of enteroviruses entering into the central nervous system and demonstrated that polio virus usually invaded the body through the intestines. He also worked with the Sabin vaccine, and with Dr. Michael E. DeBakey, the famed Baylor heart surgeon, Dr. Melnick investigated the role of viruses in heart disease. Dr. Melnick wrote more than 1000 technical papers. Dr. Horstmann was a native of Spokane, Washington; she was a graduate of UCLA/Berkeley and UCLA/San Francisco Medical School, becoming a pediatrician. She spent most of her adult life at Yale University, where she conducted research in the 1940's and 1950's. She, along with a group from The Johns Hopkins University, illustrated how the poliovirus caused paralysis; this helped to lay the groundwork for polio vaccine development. Dr. Horstmann directed a WHO review of Salk vaccine field trials in the Soviet Union, demonstrating the vaccine's safety and efficacy. She served as president of the Infectious Diseases Society of America. Drs. Melnick and Horstmann wrote a number of technical papers together during the 1940's. **Russell A. Nelson, M.D.**, former president of the Johns Hopkins Hospital, died May 19 in Naples, Fla. He was 88. During his distinguished 34-year career at Hopkins, Dr. Nelson also served terms as president of the American Hospital Association and chairman of the

AAMC Executive Council. Funeral services were held May 23 in Florida, and a memorial service at the Johns Hopkins Hospital is planned for May 30.

PEOPLE

Edited by Mitzi Sereno

Yeya T. Toure, Ph.D. will leave the Malaria Research and Training Center (MRTC), Faculty of Medicine and Pharmacy in Bamako, Mali, at the end of May 2001, to take a position at the WHO/TDR, in Geneva, Switzerland. Dr. Toure will become Manager of Molecular Entomology within STR (Basic and Strategic Research), headed by the STR Area Coordinator, Professor Ayoade Odoula. As co-Principal Investigator (with Dr. Ogobara Doumbo) on an NIAID-sponsored Tropical Medicine Research Center (TMRC) grant (see reporting of Secretary Powell's visit), Dr. Toure has worked at the MRTC to study human malaria, using a combination of parasitologic, human, and entomologic studies in Mali. Dr. Toure plans to continue collaborations within the MRTC in Mali and through Molecular Entomology activities in WHO/TDR. He hopes to strengthen molecular entomology activities within TDR to further strengthen the tremendous efforts undertaken by Dr. Boris Dobrokothov.

On May 1, 2001, The National Academy of Sciences announced the election of 72 new members and 15 foreign associates from 10 countries, in recognition of their distinguished and continuing achievements in original research. In addition, one member was elected posthumously. The election was held during the 138th annual meeting of the Academy. Election to membership in the Academy is considered one of the highest honors that can be accorded a U.S. scientist or engineer. Those elected last month bring the total number of active members to 1,874. Among the new members is **Barry J. Beaty, Ph.D.**, University Distinguished Professor and director, Arthropod-Borne and Infectious Diseases Laboratory, department of microbiology, College of Veterinary Medicine and Biomedical Science, Colorado State University, Fort Collins.

Association of American Medical Colleges (AAMC) Announces New "Caring for Community" Awardees The "Caring for Community," a program launched in March 2000 by the AAMC,

Pfizer Inc., and the Pfizer Medical Humanities Initiative, has announced six new awards for community-oriented service projects developed and operated by medical students. Projects chosen for funding this cycle include: 1) "Check Your Skin," a program run by medical students at Virginia Commonwealth University School of Medicine, teaching the Richmond area public how to reduce the risk of melanoma; 2) the "NYU Free Clinic," where New York University School of Medicine students offer free physical exams, medical screenings, and other health care services for uninsured and marginalized communities in Manhattan's Lower East Side; 3) a "Women's Health Education Forum and Health Fair," designed by students at SUNY at Buffalo School of Medicine and Biomedical Sciences designed to help Asian refugees and immigrants in Buffalo learn how to access the health care delivery system; 4) the "Student Outreach Clinic," University of Nevada School of Medicine, provides a structured learning environment for medical students as they deliver basic health services and education to the medically underserved in the Reno area; 5) the "Reach Out and Read" project at East Carolina University School of Medicine that uses pediatric health supervision and patient-provider relationship to support the development of literacy skills in young children; and 6) the "Sharing Clinic," where students at the University of Nebraska Medical Center will continue test and treat sexually transmitted diseases and HIV/AIDS in the medically underserved community of south Omaha. Award recipients will receive a total of \$51,700 in funding. The "Caring for Community" program has awarded more than \$155,000 since its inception. Information: Bob Beran, AAMC Division of Student Affairs and Education Services, 202.828.0250, rberan@aamc.org.

On the move

- S. Edwards Dismuke, M.D., M.S.P.H., has been appointed dean of the University of Kansas School of Medicine-Wichita, effective July 1. Dr. Dismuke currently serves as chair of the Department of Preventative Medicine on both the Wichita and Kansas City campuses of the University of Kansas.
- Donna J. Dean, Ph.D., has been appointed acting director of the newly established National Institute of Biomedical Imaging and Bioengineering (NIBIB) by Ruth L. Kirschstein, M.D., acting director of the NIH. Dr. Dean has served in the Office of the Director at the NIH as senior advisor for

the past three years.

- David H. Austin, Ph.D., has resigned his position as president of Case Western Reserve University. Provost and University Vice President, James W. Wagner, Ph.D., will act in Dr. Austin's absence until a replacement is found.
- Gregory C. Gray, MD, MPH, Director of the Department of Defense Center for Deployment Health Research in San Diego has accepted a position as Professor, Department of Epidemiology, College of Public Health, The University of Iowa. Dr. Gray's new position and contact information as of June 1, 2001 are: Gregory C. Gray, MD, MPH, Professor, Department of Epidemiology, College of Public Health, The University of Iowa, 2850 Steindler Building, Iowa City, IA 52242, Tel (319) 335-9627, Fax (319) 335-9200, Email: ggray@mail.public-health.uiowa.edu

FUNDING OPPORTUNITIES

Multilateral Initiative on Malaria in Africa (MIM) MIM/TDR Task Force on Malaria Research Capability Strengthening in Africa Call for Letters of Intent

Background MIM/TDR is a multi-partner programme promoting research capability strengthening activities in the context of the Multilateral Initiative for Malaria in Africa www.who.int/tdr/grants/workplans/mim.htm. The goal is to promote human and institutional resource development by supporting innovative collaborative research projects and networks in malaria endemic countries focused on strategic research areas. Projects supported to date have addressed critical issues related to chemotherapy, pathogenesis, vector control and epidemiology of malaria transmission and morbidity in Africa. The Task Force is initiating a new cycle of partnership projects expanding the scope of priorities to include the development of new interventions, strategies and policies, and the evaluation of large-scale interventions in support of malaria control. Strategic priorities include * Socio-economic and behavioural research associated with malaria health care; * Epidemiology of transmission, immune response, morbidity and mortality; * Evaluation of community-based large scale preventive and therapeutic interventions; * Health policy, systems and services research; * Pathogenesis of severe malaria; * Vector population, vectorial capacity and insecticide resistance; * Drug resistance, chemo-

therapy, chemoprophylaxis and drug policy. The Task Force will review letters of intent from mid-career African investigators taking into account the potential scientific contribution of the proposed project, relevance to reducing disease burden, technical and operational feasibility, as well as team and capacity building perspectives. Multi-institutional projects involving partnerships with research groups in developing countries (including Africa, South America and Asia) and developed countries are strongly recommended. A limited number of letters will be selected for development into full proposals to be submitted to the Task Force. Letters of intent should be no longer than 2-3 pages and be submitted together with one page summary CVs of the Principal Investigators from each participating institution. The following content is suggested: * Description and research experience of the institution(s)/ research group(s); * Rationale for the study including preliminary work/results/publications; * Scientific and capacity building objectives and potential contribution of the project to malaria control; * Outline of the study design, methods to be used and work timetable; * Research teams / institutions involved - with individual responsibility of each research partner identified; * Detailed budget breakdown by collaborating institution (total project budget US\$100K/year max.); * Additional sources of support for the project, either matching funds or in kind support. Letters of Intent should be submitted to mimtdr@who.int by **15 July 2001**. Selection will be announced by 15 September. Deadline for submission of full proposals: 15 November 2001. For additional information: mimtdr@who.int. UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases. 1211 Geneva, Switzerland, Fax +41 22 791 4854.

TDR Call for Applications: Research Training Grants 2002 The UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases (TDR) invites applications for the award of Research Training Grants (RTG) in 2002. Applicants must be nationals of, and employed in, the developing disease endemic countries (DECs), particularly from least developed countries, and low income and high-burden countries with limited research capacity. RTGs are awarded, on a competitive basis, for studies leading to a postgraduate degree, or for acquiring specialized skills. Studies must be on one or more of the TDR target diseases - malaria, leishmaniasis, schistosomiasis, lymphatic filariasis and onchocerciasis, African trypanosomiasis and Chagas disease, leprosy, dengue and tuberculosis in laboratory, clinical or

applied field research disciplines relevant to TDR and/or national priorities. The training may take place in the home country, in another developing country, or in a developed country. TDR reserves the right to select the academic institution, research program or TDR-funded Research & Development (R&D) project where it is felt the most suitable training can be obtained. Eligibility: Applications for training should be designed as an integral part of an institution development program rather than an individual request. The successful applicants are expected to promote the development of infrastructure and research environment, provide future training opportunities, exhibit scientific expertise in their chosen field, be conversant with information and communication systems, and to develop opportunities for collaboration with scientists and institutions in other countries where possible. Proposals will be reviewed on the basis of (a) research experience of applicant, (b) previous education sufficient to justify requested graduate training, (c) quality and clarity of written application, (d) recommendation letters, (e) relevance of training to home institute, (f) relevance of training to home country/region, (g) research project presented (for PhD), (h) research environment in the home institution, (i) previous TDR funding, and (j) national commitment to research. How to apply: For further information and instructions, please contact Steven Wayling, Manager, Research Training Grants (RTG), Special Programme for Research and Training in Tropical Diseases (TDR), World Health Organization, 1211 Geneva 27, Switzerland. Fax: (41 22) 791-4854, Tel: (41 22) 791-3909, Email: waylings@who.int, or see TDR's web site www.who.int/tdr The application deadline is **31 October 2001** Applications will be reviewed by a sub-Committee of the Research Strengthening Group (RSG) in February 2002.

TDR Bioinformatics and Applied Genomics Programme Grant Universities, research institutions and research organizations in Africa, Asia and Latin America are invited to apply for TDR programme grants to develop training centers/networks for research and training in bioinformatics and applied genomics. The centers will focus on infectious and parasitic diseases, and be developed to support and train scientists from the three regions. The ultimate goal is to establish sustainable research and training facilities by promoting utilization of genomics in developing disease endemic countries. US\$45,000 will be awarded as initial support for improvements in computer, internet, and LAN infrastructure in the centers. The grant will also be used to cover the costs of travel and accommodation for students,

staff, and at least three facilitators from outside the region to training workshops and courses. Support may be renewed annually subject to satisfactory evaluation. All applications must be submitted via the web. Email or paper applications will NOT be accepted as access to the web by the principal investigator is a major selection criterion. For further details, instructions for applicants, and online application, please visit the TDR web site: www.who.int/tdr/grants/grants/bioinformatics.htm

Internet Connection for Health-Related Institutions National Library of Medicine The National Library of Medicine (NLM) is offering grants to U.S. health-related institutions that wish to provide Internet access to the professionals and clients of their organizations. Internet access provides health professionals and consumers with a means of accessing the medical literature provided by NLM and other databases, of transferring files and images, and of interacting by e-mail with others throughout the world. NLM's Internet Connection program was created in recognition that many health-related organizations, particularly smaller ones and those in rural and/or urban health-underserved areas, lack resources to initiate Internet access even at a time when such access is available to most. U.S. public and private, non-profit institutions engaged in health administration, education, research, promotion and/or clinical care are eligible to apply. "Health-related" includes medicine, dentistry, nursing, pharmacy, veterinary medicine, and other activities related to the promotion of health and the prevention and treatment of disease. Hospitals, clinics, community health centers, libraries, public health facilities, units of state and local governments are some examples of eligible organizations. NLM expects that many of the applications will come from institutions that serve rural, inner city or other under-served areas. Racial/ethnic minority individuals, women, and those with disabilities are encouraged to apply as Principal Investigators for these projects. Groups (or cooperatives) of health-related institutions are also eligible to apply; a single, lead institution must apply on behalf of the group. All applicants, particularly those relatively unfamiliar with the application form and with NIH procedures, should consult NLM staff for assistance as needed. Direct inquiries regarding programmatic issues to: Dr. Valerie Florance, Division of Extramural Programs, National Library of Medicine, Rockledge One Building, Suite 301, 6705 Rockledge Drive, Bethesda, MD 20892, Telephone: (301) 594-4882, FAX: (301) 402-2952, Email: floranv@mail.nlm.nih.gov Deadlines: Letter of Intent: May 25, 2001 Application Receipt Date:

June 22, 2001 .

2001 Fred L. Soper Award for Papers of excellence in the health sciences of significance in the field of interamerican health. The award, consisting of a certificate of merit and a cash prize of \$2500 is given in recognition of Dr. Fred L. Soper, Director of the Pan American Health Organization from 1947 to 1959. All submissions must be received by **July 31, 2001**. The award recognizes significant contributions to the literature on health in the Region of the Americas. Articles listed in *Index Medicus* or the official journals of PAHO are eligible for consideration. Preference will be given to studies involving more than one discipline and related to infectious disease. Authors should be affiliated with institutions in the countries of the Americas region. Only papers published during 2000 will be considered. Applications should be submitted to Fred L. Soper Award Committee, Pan American Health and Education Foundation, 525 Twenty-third Street NW, Washington, DC, 20037. Phone: 202 974 3416; fax 202974 3636; E-mail pahef@paho.org; Net: www.paho.org/English/

Burroughs Wellcome Fund Career Awards in the Biomedical Sciences *Providing U.S. and Canadian Scientists with Bridging Support for Advanced Postdoctoral Training and Initial Faculty Years* Deadline: October 1, 2001 Candidates must have completed at least 12 months but not more than 48 months of postdoctoral research training by the October 1 application deadline. Candidates must be nominated by accredited, degree-granting institutions in the United States, Canada, or the United Kingdom. Candidates must be citizens or permanent residents of the United States or Canada at the time of application. Additional information is on the web www.bwfund.org/career_dev_awards_biomed.htm#GUIDELINES Burroughs Wellcome Fund, Career Awards in the Biomedical Sciences, 21 T. W. Alexander Drive, Research Triangle Park, NC 27709.

JOBS

Africa MIM/TDR Malaria Research Network Manager The MIM / TDR Task Force on Malaria Research Capability Strengthening in Africa (MIM/TDR RCS) with support of the National Institute for Allergy and Infectious Diseases (NIAID) of the US National Institutes of Health, is facilitating the establishment of an Antimalarial Drug Resistance Research and Monitoring Network in Africa. The network seeks to develop standardized methods to systematically

address *Plasmodium falciparum* drug resistance by establishing the value of specific gene mutations, in-vitro drug susceptibility, pharmacokinetics and clinical response in evaluating the extent and spread of drug resistance to commonly used antimalarials in Africa. The network builds upon individual research projects, located in Ghana, Malawi, Mali, Nigeria, Tanzania and Uganda that have been supported by MIM/TDR RCS Task Force. Applications are invited from mid-career African scientists for the position of part-time Malaria Research Network Manager based in Africa. The manager, reporting to the RCS Coordinator in TDR/HQ Geneva, will be responsible for planning, organization and on-site monitoring of the individual projects and network activities. In consultation with experts and international research agencies, the manager will organize training workshops on research methodologies, data analysis and report writing. The manager will facilitate collation of epidemiological data, monitor the use of common clinical and laboratory protocols to assure quality and integrity of data and monitor the compliance of network sites with the overall plan and time lines. The manager will be expected to facilitate collaboration of the network sites with WHO- AFRO on antimalarial drug resistance monitoring initiatives. An initial period of 4 to 6 weeks will be spent in WHO/TDR, Geneva, for technical and administrative orientation on the projects. Interested candidates should have a doctoral degree in biomedical science and be familiar with methodologies to be used by the network to evaluate anti-malarial drug resistance. Independent international research and training collaboration in communicable diseases will be an asset. Candidates must demonstrate research and managerial experience in malaria with a good record of publication and funding. Ability to work in a team, promote collaboration and willingness to travel extensively in Africa at short notice are essential. An excellent knowledge of English is required. A working knowledge of French will be an advantage. The assignment will be carried out through a Standard WHO Service Contract Agreement for an initial period of 6 months with possibility of renewal. The Contract does not in anyway imply employment by the World Health Organization (terms and conditions of WHO Service contract are available on request). Remuneration commensurate with national consultant level, will be fixed based on experience of the candidate and country of residence. Interested candidates should forward a copy of current CV with a brief description of current professional activities by e-mail to mimtdr@who.int, Subject: NETWORK MANAGER not later than **15th July 2001**. UNDP/World Bank/ WHO

Special Programme for Research & Training in Tropical Diseases (TDR), World Health Organization, 20 Avenue Appia, CH 1211 Geneva 27, Switzerland.

Austria Postdoctoral Position (Molecular Biology / Immunology) to study molecules involved in dendritic cell function. The Novartis Research Institute headed by Professor Jan E. deVries is a Vienna-based pharmaceutical research centre representing an important element in the international drug discovery effort of the Novartis group. The laboratory of Dr. Frank Kalthoff in the Unit "Auto Immune Diseases" offers a Postdoctoral Position (Molecular Biology / Immunology) to study molecules involved in dendritic cell function. Candidates must have a Ph.D. or M.D., with a strong background in Molecular Biology and/or Immunology. Experience in one or more of the following techniques is an asset: cDNA library construction, expression cloning and functional analysis of novel genes, establishing of stable transfectants and their analysis, flow cytometry, cellular immunological assays. Informal enquiries about the project may be sent via E-mail to frank.kalthoff@pharma.novartis.com Additional information can be found on the website, at www.lilly.com/careers/opportunities

Denmark Immunologist - Reduction of Protein Allergenicity The Protein Screening department of Novozymes A/S, Denmark, has an opening for an immunologist to join a project group that focuses on reducing allergenic potential of enzymes and other proteins. In the department, 18 Scientists and Technicians develop front-line technologies for improving protein properties through man-made molecular evolution and high-throughput screening, and investigate and improve the immunological properties of enzyme proteins. The successful applicant will be part of a team that develops a suite of technologies that for a protein of interest serve to analyze the structure to find the major immunogenic epitopes, modify these epitopes through protein engineering and molecular evolution, and select the improved versions by novel assay techniques. He/she will characterize immunological mechanisms at a cellular level, and develop specific assays for identification of proteins with reduced allergenicity. Further, these assays will be transformed into high-throughput formats. The job will provide ample opportunities for development of a scientific profile through publications and presentations. *Qualifications:* a Ph.D. in immunology or similar field, possibly with post-doc or industrial experience as well as experience in studying immunological mechanisms at the molecular level - preferably those related to allergy; a solid background in molecular biology

JOBS (CONT'D)

combined with knowledge of cell culture techniques would be a plus. Fluency in English is a must. *Contact:* Steffen Ernst, Department Manager, at +45 4442 1352 or sffe@novozymes.com or Erwin L. Roggen, Research Manager, at +45 4442 4220 or elro@novozymes.com for further information about the job. Read more about Novozymes A/S and its benefits at www.novozymes.com/job. Send your application marked "Immunologist.467" to Novozymes A/S, Human Resources, Building 8XA1.16, Krogshoejvej 36, DK-2880 Bagsvaerd, no later than **July 1, 2001**.

Alabama Postdoctoral fellow Molecular Biology/Biochemistry Auburn University, AL has a position available immediately to develop bioselective phage-displayed ligands for biosensor detection of microbial threat agents in a collaborative project funded by DARPA and ARO. Appropriate skills and interests include molecular biology of bacteriophages, vector design, construction of phage display libraries, site-directed mutagenesis, biopanning, ELISA, DNA sequencing, and general genetic engineering methods. Ph.D. in molecular biology or biochemistry. A minimum of three years of postdoctoral training is required. Our laboratory occupies renovated research space in a highly collaborative environment. Please send *curriculum vitae* and names of three references to: Professor Valery Petrenko, Department of Pathobiology, 264 Greene Hall, College of Veterinary Medicine, Auburn University, Auburn, Alabama 36849-5519. E-mail: petreva@vetmed.auburn.edu. Fax: 334-844-2652. Auburn University is an Equal Employment Opportunity Employer. Ethnic minorities and women are encouraged to apply.

California Postdoctoral position A Postdoctoral position is immediately available in the Division of Infectious Diseases at Stanford University for research aimed at understanding the molecular mechanisms of pathogenesis of *Entamoeba histolytica*. A variety of molecular, genetic and genomic approaches will be used to dissect the virulence determinants involved in causing invasive disease. The work requires a strong background in molecular biology and a familiarity (or willingness to learn) computational tools for bioinformatics. Funding is available through a variety of sources including NIH and Fogarty International health training grants. Interested individuals should contact Upinder Singh M.D. at usingh@stanford.edu

California Group leaders, scientists, associate scientists Biotechnology, pharmaceutical drug discovery, HTS, molecular biology, biology. DuPont Pharmaceuticals Research Laboratories San Diego, CA : We offer an excellent salary, comprehensive benefits package and a great working environment. To apply, please forward your cover letter and resume to: DuPont Pharmaceuticals Research Laboratories, 4570 Executive Dr., Suite 400, San Diego, CA 92121; fax: 858-625-6477 or e-mail: bobbie.j.bosley@dupontpharma.com. An Equal Opportunity Employer. Learn more about us at www.DuPontPharma.com. DuPont Pharmaceuticals maintains a safe, drug-free workplace and requires pre-employment drug screening.

California Multiple positions Illumina, San Diego, California.

- **Director, Protein Profiling, MC5262** The successful candidate will provide technical leadership and R & D management of protein expression profiling projects, including assay development and design, and development of high-throughput screening applications. Also, she/he will address cross-functional challenges in implementing solid- and mixed-phase protein assays on miniaturized array platforms, from sample preparation to proteomics data analysis. *Qualifications:* PhD or equivalent in biological/chemical/physical sciences with 5 years industrial experience in developing protein assay systems; Proven project management experience; A strong background in protein chemistry, especially in protein conjugation and solid phase assays; Experience in the application of high-throughput screening assays, especially protein microarrays and associated bioinformatics.
- **Scientist, Expression Profiling, MC5265** The successful candidate will develop novel, highly parallel methods for functional analysis of biological systems, utilizing Illumina's bead-based array technology platform. *Qualifications:* PhD in Biological or Physical Sciences with 2 years work experience in functional analysis of biological systems, with a proven track record of exceptional scientific accomplishment; Expertise in molecular biology assay development is a must; Previous experience with microarray technologies for mRNA and/or protein profiling is desired;

Fundamental understanding of commercial assay development; Proficiency with computational/software tools for data management and analysis is equally desired; Must be innovative, analytical, quantitative, and have good problem-solving and communications skills; Enjoy being a part of a multidisciplinary team; Ability to work in teams as well as independently

For more information, visit the Illumina web site at: www.illumina.com. Then, e-mail a resume to: jobs@illumina.com. Mailing address: Illumina, 9390 Towne Center Drive, San Diego, CA 92121; Fax: 858-587-1240. EOE.

Indiana Senior In Vivo Pharmacologist. Building on a portfolio of exciting clinical candidates for the treatment of sepsis and other inflammatory diseases, Lilly Research Laboratories is expanding its Inflammation Research program. A position is available for a dedicated scientist with pharmacology expertise in animal models of inflammatory disease (arthritis, asthma, allergy, autoimmunity etc.). Successful candidates will have a working knowledge of the molecular mechanisms of inflammation and previous experience with methods to evaluate compounds in vivo. Qualified candidates will have the ability to integrate scientific knowledge and experience into research that is relevant to the discovery of novel anti-inflammatory drugs. Scientists will be expected to contribute to ongoing research projects and provide new directions for drug discovery. Candidates must demonstrate independence and creativity balanced with strong interpersonal skills and the ability to contribute to team oriented research. Position requires at least 5 years of experience. The successful applicant will recruit and supervise independent laboratory conducting both applied and basic research, establish preclinical animal models of inflammatory disease, provide pharmacology support for the development of anti-inflammatory compounds, and provide guidance and leadership to multi-disciplinary teams developing novel drug discovery strategies. Submit applications on-line at www.lilly.com/careers/opportunities/reply.html or visit the Eli Lilly website at www.lilly.com/careers

Indiana Scientific Director, Proteomics Indiana University School of Medicine, Indianapolis, IN is seeking candidates for Scientific Director of a new proteomics core that will be affiliated with the Biochemistry Biotechnology Facility. The facility will acquire new, state-of-the-art proteomics research

equipment (mass spectrometers, two-dimensional gel imagers, robotics, and computers) through funding from the Indiana Genomics Initiative. The Scientific Director will be appointed to a Scientist-rank faculty position in the Department of Biochemistry and Molecular Biology. The Scientific Director is expected to develop a new, world-class core proteomics research facility; interact closely with researchers at the School of Medicine; provide core support for NIH-funded research centers of excellence at the School; actively pursue grants for new instrumentation; and provide laboratory instruction to students, Postdoctoral Fellows, and technicians in a newly developed biotechnology training program. The minimum qualifications include a Ph.D. or equivalent in biochemistry, chemistry, or related scientific discipline; demonstrated expertise in mass spectrometric analysis of biological molecules; experience in protein chemistry; and strong oral and written communication skills. Please send curriculum vitae, description of research interest, and the names and e-mail addresses of three references to: Dr. John W. Hawes, Director, Biochemistry Biotechnology Facility, Department of Biochemistry and Molecular Biology, Indiana University School of Medicine, 635 Barnhill Drive, MS 4053, Indianapolis, IN 46202-5122. Telephone: 317-274-6647; FAX: 317-274-4686; e-mail: jhawes@iupui.edu. Indiana University is an Equal Opportunity/Affirmative Action Employer; Minority/Female/Disabled.

Michigan Clinical Trials Specialist - Pharmacogenetics The successful candidate will be involved in the design, implementation and monitoring of clinical drug trials based on pharmacogenetic hypotheses/objectives, which includes projects with Pharmacia's therapeutic area with an emphasis ranging from preclinical or early exploratory trials to clinical registration studies. Operational responsibilities involve protocol development, leadership on pharmacogenetics project teams including an interface with clinical investigators, institutional review boards or ethics committees, and the development/maintenance of SOPs for clinical genetic research. Requires training/experience in clinical pharmacology or clinical development-based research; strong interpersonal skills; and a track record in cross-functional teamwork. B.S./M.S. degree in Genetics or related sciences desirable. Respond to: respond.webhire.com/job/id?479-r2712-J1

Missouri Assistant/associate professor Immunology, viral immunology Saint Louis University St. Louis, MO The Department of Molecular Microbiology and Immunology in the St. Louis University

JOBS (CONT'D)

School of Medicine has a 12-month, tenure-track position available at the Assistant or Associate Professor level. The Department has active research programs in molecular virology, viral pathogenesis, vaccine development, and cancer gene therapy (web: medschool.slu.edu/mmi/). It seeks to expand its expertise in immunology including but not limited to genomics approaches. The candidate must have the Ph.D. or M.D. degree as well as postdoctoral experience. He/she will be expected to develop and maintain a strong externally funded research program and to teach medical and graduate students. Excellent laboratories, start-up funds, and salaries will be provided. St. Louis is a center of biomedical research. Applicants should send their curriculum vitae, names of three references, and a brief description of research interests to: Dr. William Wold, Professor and Chairman, Department of Molecular Microbiology and Immunology, Saint Louis University School of Medicine, 1402 South Grand Boulevard, St. Louis, MO 63104. E-mail: woldws@slu.edu. Saint Louis University is a Catholic Jesuit institution dedicated to education, research, and health care. Saint Louis University is an Affirmative Action/Equal Opportunity Employer and encourages nominations of and applications of women and minorities.

New Jersey Postdoctoral Scientist Novartis Pharmaceuticals Using model systems, such as *Drosophila*, the candidate will study functions of genes for which human homologs are predicted. Information from such studies will allow the evaluation for their use as potential drug targets. The candidate must be able to work independently as well as part of a high energy team. The candidate must collect data efficiently and trouble shoot effectively. Also, the candidate must be able to convey their data and interpretations to other members of a functional genomics team. Ph.D. in biology or biochemistry plus a strong background in genetics and/or molecular biology is necessary and have experience in *Drosophila*. The ideal candidate should possess strong communication skills and be able to work effectively as part of a team. For additional information see position # 10208 on the Novartis website at www.pharma.us.novartis.com/about/careers/jobsearch.html

New York International Trachoma Initiative Regional Coordinators for Anglophone Africa & Asia The International Trachoma Initiative (ITI), a tax-exempt, not-for-profit agency headquartered in New York City, is the international organization dedicated solely to the elimination of trachoma, the world's leading

cause of preventable blindness. ITI supports the World Health Organization goal of eliminating blinding trachoma as a public health priority by the year 2020 through its support of country programming, applied research, and communications and advocacy. The regional coordinators report directly to the Program Director and are based in New York City. They will be responsible for initiating and managing ITI's program activities in specific regions of the world and will have a "portfolio" ranging from 3 to 6 countries. They will be responsible for the direct management of country programs, including needs assessment, hiring of local staff or consultants, development of country plans and partner agreements, budgeting and grant making, troubleshooting, and reviewing and evaluating program results. In addition, each regional coordinator will have responsibility for one or more global technical programs that cut across geographic areas and will coordinate the development of technical standards, approaches, and tools that can be used across all ITI's programs worldwide. The global technical programs include: applied research; health education/health promotion; Intersectoral cooperation and program evaluation. *Qualifications and Experience* The successful candidate must be eligible for employment in the United States and will have a graduate degree in public health or related field. The candidate should have five to seven years experience, with increasing managerial responsibility, including at least two years field experience in a developing country with responsibility for developing and managing "multi-partner" health or social sector programming. Experience in public health is preferred, especially that requiring multiple interventions over time. Approximately 30 to 40% of the regional coordinator's time will be spent traveling to trachoma-endemic countries. While experience with eye diseases would be useful, it is not required. Experience in operational or applied health research, health education/promotion or water and sanitation would be an advantage. *Contact:* by **June 15, 2001** send or fax a letter of intent and resume to: The International Trachoma Initiative 441 Lexington Avenue 16th Floor, New York, NY 10017, FAX: 212.490.6461, E-MAIL: ITI@TRACHOMA.ORG

Pennsylvania Postdoctoral fellowships and research associates: Modulation of human immune responses to auto- and alloantigens, pathogenesis of heparin-induced thrombocytopenia and thrombosis, structure: function analysis of the urokinase receptor University of Pennsylvania Web: www.sciencecareers.org/cgi/show/5519/5519xD07462

CALENDAR

Edited by Karl Western

XX International Congress on "Hydatidology" (**Kusadasi: June 4-8, 2001**). Contact **20th Congress of Hydatidology Secretariat, Department of Parasitology, Ege University Medical Faculty, 35100 Bornova-Izmir, Turkey**. Phone/Fax: (90-232)-373-1073; E-mail: hydatid@med.ege.edu.tr; Internet: <http://www.med.ege.edu.tr/~hydatid>.

Wind River Conference on "Prokaryotic Biology" (Estes Park, CO: June 6-10, 2001). Contact: Ken Bayles, Department of Microbiology, Molecular Biology, and Biochemistry, College of Agriculture, University of Idaho, Moscow, ID 83844. Phone: 208/885-7164; Fax: 208/885-6518; E-mail: kbayles@uidaho.edu.

NIH Regional Seminars on "Program Funding and Grants Administration" (Portland: June 7-8, 2001). The program is targeted for new and senior researchers, research administrators, post-docs, and trainees. Contact: <http://grants.nih.gov/grants/seminars.htm>.

Canadian Society of Microbiologists Annual General Meeting on "Bioinformatics and Biotechnology" (Waterloo: June 10-13, 2001). Contact: Trevor Charles, Department of Biology, University of Waterloo, Waterloo, Ontario N2T 3G1, Canada. Phone: 519/888-4567 (ext. 5606); Fax: 519/746-0614; E-mail: tcharles@uwaterloo.ca.

V International Conference on Hemorrhagic Fever with Renal Syndrome, Hantavirus Pulmonary Syndrome, and Hantaviruses (Veyrier du Lac: June 13-16, 2001). Contact: Fondation Merieux, 17 rue Bourgelat, BP 2021, 69227 Lyon Cedex 02, France. Fax: (33-4)-7240-7950; E-mail: bodet@fond-merieux.org; Internet: <http://www.fond-merieux.org>.

Congress on "Epidemiology: 2001" (Toronto: June 13-16, 2001). First combined meeting of American College of Epidemiology, Epidemiology Section of the American Public Health Association, Canadian Society for Epidemiology and Biostatistics, and the Society for Epidemiology Research. Contact: Polly A. Marchbanks, PhD, Centers for Disease Control (Mail Stop K34), 1600 Clifton Road, Atlanta, GA 30333. Phone: 770/488-5250; Internet: <http://epi2001.org>.

XI Symposium on "HIV Infection: AIDS 2001—Third Decade of an Odyssey" (Toulon: June 14-16, 2001). Contact: Dr Alain Lefeuvre, Infectious Diseases Unit, Hopital Chalucet, 83056 Toulon, France. Phone: (33-4)-9422-7741; Fax: (33-40)-9492-6747; E-mail:

avps@club-internet.fr.

VII Congress of the European Confederation of Medical Mycology (ECMM) (Tel Aviv: June 16-19, 2001). Contact: Congress Secretariat, Dan Knassim Ltd., PO Box 1931, Ramat gan 52118, Israel. Fax: (972-3)-613-3341; E-mail: team1@congress.co.il.

VI European Conference on "Experimental AIDS Research" (Edinburgh: June 23-26, 2001). Contact: Index Communications Meeting Services (Scotland), Ltd. 32 Queens Crescent, Newington, Edinburgh EH9 2BA, UK. Phone: (44-131)-667-9887; Fax: (44-131)-530-8335; E-mail: Scotland.icms@dial.pipex.com; Internet: <http://nibsc.ac.uk/ecear2001>.

XI International Conference on "Bacilli: Functional Genomics of Gram-Positive Microorganisms" (San Diego: June 23-27, 2001). Dr. Marta Perego, The Scripps Research Institute, 10550 North Torrey Pines Road (MEM-116), La Jolla, CA 92037. Internet: <http://www.grampositivegenomics.org>.

International Congress of "Sexually Transmitted Infections" (ICSTI) (Berlin: June 24-27, 2001). Contact: ICSTI, Congress Partner GMBH, Birkenstrasse 37, D-28195 Bremen, Germany. Phone: (49-421)-303131; Fax: (49-421)-303133; E-mail: Bremen@cpb.de.

Gordon Research Conference on "Tuberculosis Drug Development" (New London, NH: June 24-29, 2001). Contact: Gordon Research Conferences, PO Box 984, West Kingston, RI 02892-0984. Phone: 401/783-4011; Fax: 401/783-7644; E-mail: grc@grcmail.uri.edu; Internet: <http://www.grc.uri.edu>.

VI International Symposium on "Modern Concepts in Endocarditis and Cardiovascular Infections" (Barcelona: June 27-29, 2001). Contact: Organizing Secretariat. Phone: (34-93)-221-2242; Fax: (34-93)-221-7005; E-mail: vir@geyseco.com; Internet: <http://www.geyseco.com/endocarditis2001.htm>.

Cuba AIDS Project Humanitarian Workshop (Havana: June 29-30, 2001). English only; US citizens may legally attend. Contact: Byron L. Barksdale, MD, Director, Cuba AIDS Project, Pathology Services, PC, 500 West Leota Street (Suite 200), PO Box 1289, North Platte, NB 69103-1289. Internet: <http://www.cubaonline.org>.

American Society of Parasitology (ASP) Annual Meeting (Albuquerque, NM: June 30-July 3, 2001). Contact: Dr. George Cain, ASP Secretary-Treasurer, Department of Biological Sciences, University of Iowa, Iowa City, IA. Phone: 319/335-1061; Fax: 319/335-

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1069; E-mail: george-cain@uiowa.edu.

XXII International Congress of "Chemotherapy" (Amsterdam: June 30–July 5, 2001). Contact: Eurocongres Conference Management, Jan van Goyenkade 11, 1075 HP Amsterdam, Netherlands. Phone: (31-20)-679-3411; Fax: (31-20)-673-7306; E-mail: icc@eurocongres.com.

UC/San Diego "Wilderness Medicine" Conference (Keystone, CO: July 4–8, 2001). Office of CME, UC/San Diego, 9500 Gillman Drive, La Jolla, CA 92093-0617. Phone: 888/229-6263 or 858/534-3940; E-mail: ocme@ucsd.edu; Internet: <http://www.cme.ucsd.edu>.

American Society of Microbiology (ASM) Conference on "Cell-Cell Communication in Bacteria" (Snowbird, UT: July 6–9, 2001). Contact: ASM Meetings Department, 1752 N Street, NW, Washington, DC 20036. Phone: 202/942-9248; Fax: 202/942-9340; Internet: <http://www.asmta.org/mtgsrc/mts/htm>.

XI International Congress of "Protozoology" (Salzburg, Austria: July 15–19, 2001). Contact: Internet: <http://www.kenes.com/protozoology>.

XX Annual Scientific Meeting of the American Society for Virology (Madison: July 21–25, 2001). Contact: Dr. Sydney Grossberg, American Society for Virology, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226. Phone: 414/456-8104; Fax: 414/456-0509; E-mail: segrossb@mcw.edu; Internet: <http://www.mcw.edu/asv>.

I International AIDS Society (IAS) Conference "HIV Pathogenesis and Treatment" (Buenos Aires: July 8–11, 2001). Contact: <http://www.aids2001ias.org>.

II International Conference and Exhibition on "Traditional Medicine in Ghana" (Accra: July 15–24, 2001). Contact: Africa First LLC, 517 Asbury Street (Suite 11), Saint Paul, MN 55104. Phone: 651/646-4721; Fax: 651/644-3235; E-mail: africafirst@yahoo.com.

XX Annual American Society for Virology (ASV) Annual Meeting (Madison: July 21–25, 2001). Contact: Dr. Sydney Grossberg, ASV, Department of Microbiology and Molecular Genetics, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226. Phone: 414/456-8104; Fax: 414/456-6566; E-mail: segrossb@mcw.edu; Internet: <http://www.mcw.edu/asv>.

www.mcw.edu/asv.

XV Annual National Congress on "Wilderness Medicine" (Big Sky Resort, MT: August 1–5, 2001). Contact: Wilderness and Travel Medicine, 1822 West Lincoln Street, Bozeman, MT 59715. Phone: 800/522-8747; Internet: <http://www.Wilderness-medicine.com>.

X International Congress of "Parasitology: Parasitology in a New World" (Vancouver: August 4–10, 2001). Contact: ICOPA X Secretariat, c/o Venue West Conference Services, Ltd., Vancouver, British Columbia V6B 5C6, Canada. Phone: 604/681-3226.

Gordon Conference on "Malaria" (Oxford, UK: August 5–10, 2001). Contact: Gordon Research Conferences, PO Box 984, West Kingston, RI 02892-0984. Phone: 401/783-4011; Fax: 401/783-7644; E-mail: grc@grcmail.uri.edu; Internet: <http://www.grc.uri.edu>.

XII International Symposium on the "Biology of Actinomycetes" (Vancouver: August 5–10, 2001). Contact: Dr. Julian Davies, Department of Microbiology and Immunology, University of British Columbia, 300-6174 University Boulevard, Vancouver, BC B6T 1Z3, Canada. E-mail: jed@interchange.ubc.ca.

UC/San Diego "Wilderness Medicine" Conference (Snowmass, CO: August 12–17, 2001). Contact: Office of CME, UC/San Diego, 9500 Gillman Drive, La Jolla, CA 92093-0617. Phone: 888/229-6263 or 858/534-3940; E-mail: ocme@ucsd.edu; Internet: <http://www.cme.ucsd.edu>.

VIII International Theriological Congress and Symposium on "Mammalian Parasite Biodiversity, Co-evolution, and Zoonoses" (Sun City, South Africa: August 12–17, 2001). Contact: Dr. Scott Gardner, University of Nebraska, Omaha, NE. Fax: 402/472-8049; E-mail: slg@unl.edu; Internet: <http://www.eventdynamics.co.za/itc/>.

Gordon Research Conference on "Staphylococcal Diseases" (Roger Williams College, RI: August 12–17, 2001). Contact: Gordon Research Conferences, PO Box 984, West Kingston, RI 02892-0984. Phone: 401/783-4011; Fax: 401/783-7644; E-mail: grc@grcmail.uri.edu; Internet: <http://www.grc.uri.edu>.

American Society of Rickettsiology/Bartonella Joint Conference on "Rickettsia and Bartonella as an Emerging Pathogen Group" (Big Sky, MT: August 17–22, 2001). Contact: Mike Minnick, Division of Biological Sciences, University of Montana, Missoula, MT 59812-4824. Internet: <http://www.cas.umt.edu/asr/>.

Gordon Research Conference on “Neurovirology” (Oxford, UK: August 26-31, 2001). Contact: Gordon Research Conferences, PO Box 984, West Kingston, RI 02982-0984. Phone: 401/783-4011; Fax: 401/783-7644; E-mail: grc@grcmail.uri.edu; Internet: <http://www.grc.uri.edu>.

Congress on “Interactions in the Microbial World” (Amsterdam: August 26-31, 2001)

XIX International “Papillomavirus” Conference (Florianopolis, Brazil: September 1-7, 2001). Contact: Conference Secretariat. E-mail: hpv2001@jz.com.br; Internet: <http://www.hpv2001.com>.

Cold Spring Harbor Laboratory (CSHL) Meeting on “Microbial Pathogenesis and Host Response (Cold Spring Harbor: September 12-16, 2001). Contact: Meetings and Courses Programs, CSHL, 1 Bungtown Road, Cold Spring Harbor, NY 11724. Phone: 516/367-8346; Fax: 516/367-8845; E-mail: meetings@cschl.org; Internet: <http://www.cshl.org/meetings>.

III International Conference of the Society for Vector Ecology (SOVE) (Barcelona: September 16-21, 2001). Contact: Local Arrangements Committee, Mosquito Control Service, Consell Comarcal del Baix Llobregat, Parc Torreblanca, CN 340 s/n. Sant Feliu de Llobregat, 08980 Spain. Phone: (34-93)-640-1399; Fax: (34-93)-630-0142; E-mail: committee@sove2001.org; Internet: <http://sove2001.org>.

XLI Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC) Annual Meeting (Chicago: September 22-25, 2001). Contact: Meetings Department, ASM, 1752 N Street, NW, Washington, DC 20036. Phone: 202/942-9248; Fax: 202/942-9340; E-mail: meetingsinfo@asmusa.org; <http://www.asmusa.org>.

American Society of Microbiology (ASM)-Society for General Microbiology (SGM) Conference on “Biodegradation, Biotransformation, and Biocatalysis” (San Juan, PR: October 2-6, 2001). Contact: ASM Meeting Department, 1752 N Street, NW, Washington, DC 20036. Phone: 202/942-9248; Fax: 202/942-9340; Internet: <http://www.asmusa.org/mtgsrc/mtsg.htm>.

The Crisis of Neglected Diseases: Developing Treatment and Ensuring Access (New York City October 4, 2001) An international conference sponsored by Médecins Sans Frontières/Doctors Without Borders (MSF) at The Graduate Center, City University of New York (CUNY) For more information: www.neglecteddiseases.org access-nyc@newyork.msf.org or phone 212-847-3153.

Institut Pasteur Euro-Conference on “Vaccines of the Future: From Rational Design to Clinical Development” (Paris: October 18-19, 2001). Contact: Institut Pasteur Euro-Conferences, 28 rue du Docteur Roux, 75754 Cedex 15 Paris, France. Fax: (33-1)-4061-3405; E-mail: euroconf@pasteur.fr; Internet: <http://www.pasteur.fr/applications/euroconf>.

VI Meeting on “Trends in Invasive Fungal Infections” (Prague: October 18-21, 2001). Contact: TIFI-6, Concorde Services Limited, 42 Canham Way, London W3 7SR, UK. Phone: (44-20)-8743-3106; Fax: (44-20)-8743-1010; E-mail: tifi@concorde-uk.com.

XXXIX Infectious Disease Society of America (IDSA) Annual Meeting (San Francisco: October 25-28, 2001). Contact: IDSA Meetings, 99 Canal Center Plaza (Suite 210), Alexandria, VA 22314. Phone: 703/299-0200; Fax: 703/299-0204; Internet: <http://www.idsociety.org>.

VIII European Conference on “Clinical Aspects and Treatment of HIV Infection” (Athens: October 27-31, 2001. Contact: EUROAIDS Secretariat, Panos Travel, 4 Filellinon Street, GR-10557 Athens, Greece. Phone: (30-1)-323-0380; Fax: (30-1)-324-5049; E-mail: euroaids2001@travelling.gr.

L American Society of Tropical Medicine and Hygiene (ASTMH) Annual Meeting (Atlanta: November 11-15, 2001). Contact: ASTMH Secretariat, 60 Revere Drive (Suite 500), Northbrook, IL 60062. Phone: 847/480-9592; Fax: 847/480-9282; Internet: <http://www.astmh.org>.

Cold Spring Harbor Laboratory (CSHL) Meeting on “Molecular Approaches to Vaccine Design” (Cold Spring Harbor: November 29-December 2, 2001). Contact: Meetings and Courses Program, CSHL, 1 Bungtown Road, Cold Spring Harbor, NY 11724. Phone: 516/367-8346; Fax: 516/367-8845; E-mail: meetings@cschl.org; Internet: <http://www.cshl.org/meetings>.

VIII International Symposium on “Schistosomiasis: Still a Challenge for the 21st Century?” (Recife: December 2-5, 2001). Contact: Executive Secretary, CEJEM, rua Gal. Americano Freire, 394 (Sala 404), Boa Viagem, Pernambuco, CEP 51021-120, Brazil. Phone: (55-81)-3466-4723; Fax: (55-81)-3325-5015; E-mail: cejem@ecologia.com.br; Internet: <http://www.cpqam.fiocruz.br/eventos/symposium.htm>.

Symposium on “Resistant Gram-Positive Infections” (San Antonio: December 3-5, 2001). Contact: Mr. D. Lesham, 630 3rd Avenue (Suite 400), New York City, NY 10017. Phone: 212/697-8553; Fax: 212/687-

9386; E-mail: unit@netvision.net.il.

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X International Conference on “Infectious Diseases” (Singapore: March 11-14, 2001). Contact: International Society for Infectious Diseases, 181 Longwood Avenue, Boston, MA 02115. Phone: 617/277-0551; Fax: 617/731-1541; E-mail: isidbos@aol.com; Internet: <http://www.isid.org>.

XII European Conference of “Clinical Microbiology and Infectious Diseases” (Milan: April 24-27, 2002). Contact: 12th ECCMID 2002, c/o AKM Congress Service, PO Box CH-4005, Basel, Switzerland. Phone: (41-61)-686-7711; Fax: (41-61)-686-7788; E-mail: info@akm.ch; Internet: <http://www.akm.ch/eccmid2002>.

XIV International “AIDS” Conference (Barcelona: July 6-13, 2002). Contact: Conference Program Secretariat, Edifici Apollo X, Balmes 200, 908006 Barcelona, Spain. Phone: (34-932)-182-404; Fax: (34-932)-170-188; E-mail: aids2002@aids2002.com; Internet: <http://www.aids2002.com>.

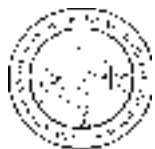
IV International Conference on “Urban Pests”

(Charleston, SC: July 7-10, 2002). Contact: Richard Cooper, Cooper Pest Control, Incl. 351 Lawrence Station Road, Lawrenceville, NJ 08648-2695. Fax: 609/799-3859; E-mail: rcooper@cooperpest.com; Internet: <http://entweb.clemson.edu/rban/icup2002.htm>.

X International Congress of “Parasitology” (Vancouver, BC: August 4-10, 2002). Contact: ICOPAX Conference Secretariat, Venue West Conference Services, Ltd., 375 Water Street (# 645), Vancouver, BC V6B 5C6, Canada. Phone: 604/681-5226; Fax: 604/681-2503; E-mail: congress@venuewest.com; Internet: <http://www.venuewest.com>.

XVI International Epidemiological Association (IEA) World Congress of “Epidemiology” (Montreal: August 18-22, 2002). Contact: Congress Secretariat, c/o Events International, Meeting Planners, Inc., 759 Victoria Square (Suite 300), Montreal, Quebec, H2Y 2J7, Canada. Phone: 514/286-0855; Fax: 514/286-6066; E-mail: info@eventsintl.com; Internet: <http://www.iea2002.com>.

V International Conference of the Hospital Infection Society (Edinburgh, Scotland: September 15-18, 2002). Contact: Conference Secretariat, Concorde Services/HIS 2002, 50 Spiers Wharf (Unit 4B), Port Dundas, Glasgow G4 9TB, UK. Phone: (44-141)-331-0123; Fax: (44-141)-331-0234; E-mail: his@concorde-uk.com.



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