



Quarterly Newsletter Summer 2011

The Johns Hopkins Vaccine Initiative promotes collaborative and interdisciplinary vaccine research, education, and implementation efforts to improve health worldwide.

Johns Hopkins Vaccine Initiative

JHSPH Students at WHO and GAVI

This spring, JHVI and WHO announced the selection of the 2011 Vaccine Internship Experience at WHO (VIEW) Scholars. The VIEW program allows JHSPH graduate students to work with mentors in the Department of Immunization, Vaccines and Biologicals at WHO in Geneva to gain experience in vaccine research, policy, or programs of global importance.

2011 Scholars are Sarah Qureshi (GDEC-IH), Jodi Liu (GDEC-IH) and Carolyn Nielsen (MMI). Sarah will work with WHO health economist Miloud Kaddar on a project in vaccine pricing for countries graduating out of GAVI support, Jodi will work with Peter Strebel on a measles surveillance project, and Carolyn will assist JHSPH MPH graduate Steven Wiersma on a hepatitis surveillance project. Internships will

begin in September of 2011 and will last 3-4 months.

JHVI also funded MPH graduate Jessica Atwell to complete an internship at GAVI in Geneva over the summer. Jessica will be interning with the Monitoring and Evaluation Team and will return to Baltimore in September to begin her PhD in the Global Disease Epidemiology and Control program in International Health.

These internships are funded by the Johns Hopkins Vaccine Initiative and provide each student with a stipend to be used for travel, accommodation and expenses while in Geneva.

On May 19, 2011 the returning 2010 VIEW Scholars presented a summary of their internships to JHSPH faculty, staff and students. The returning scholars were PhD candidate Kirsten Vannice and MSPH students Alaina Thomas, Lauren Schwartz, Khayriyyah Mohd Hanafiah, and Samantha Wu.



Inside this issue:

VIEW Scholars	1
Vaccine Related Seminars at JHSPH	2
Center for Immunization Research 25th Anniversary	3
JHVI Faculty Selected Publications	4

JHSPH Hosts Three Vaccine Seminars in Honor of the Department of International Health

In celebration of the 50th anniversary of the Department of International Health, the Institute for Vaccine Safety hosted **The Vaccine Debates: A case study of the media's coverage of medicine in modern society**, a lecture by

Seth Mnookin, author of **The Panic Virus: A True Story of Medicine, Science and Fear**.

In Celebration of
50 Years of The Department of International Health

The Institute for Vaccine Safety presents

The Vaccine Debates: A case study of the media's coverage of medicine in modern society

A Lecture by
Seth Mnookin
Author of
The Panic Virus: A True Story of Medicine, Science, and Fear

"A book that should be required reading at every medical school in the world. *The Panic Virus* is a lesson on how fear hijacks reason and emotion trumps logic."
— *The Wall Street Journal*

Friday, April 8, 2011 Noon - 1:30 pm
Becton Dickinson Lecture Hall, Room W1020
Reception and book signing to follow.

Mnookin's book, *The Panic Virus*, is available at
Matthews Book Store • 1830 Monument St.

The Institute for Vaccine Safety also presented a lecture by Brian Deer entitled **An Elaborate Fraud: Vaccines and Autism**. Brian Deer is an investigative journalist with the Sunday Times of London whose award-winning work over the past 7 years led to the full retraction of the original Lancet paper by Andrew Wakefield which postulated a link between measles vaccine and autism.

The Child Health Society of the Johns Hopkins Bloomberg School of Public Health and the Johns Hopkins Vaccine Initiative presented **Increasing Vaccine Delivery on a Global Level**, with Keynote Speaker **Dr. Mathuram Santosham** and guest speaker **Dr. Paul Offit**. Dr. Offit is the Chief of the Division of Infectious Diseases and the Director of the Vaccine Education Center at the Children's Hospital of Philadelphia. He is the Maurice R. Hilleman Professor of Vaccinology and a Professor of Pediatrics at the University of Pennsylvania School of Medicine.

In Celebration of
50 Years of The Department of International Health

The Institute for Vaccine Safety presents

An Elaborate Fraud: Vaccines and Autism

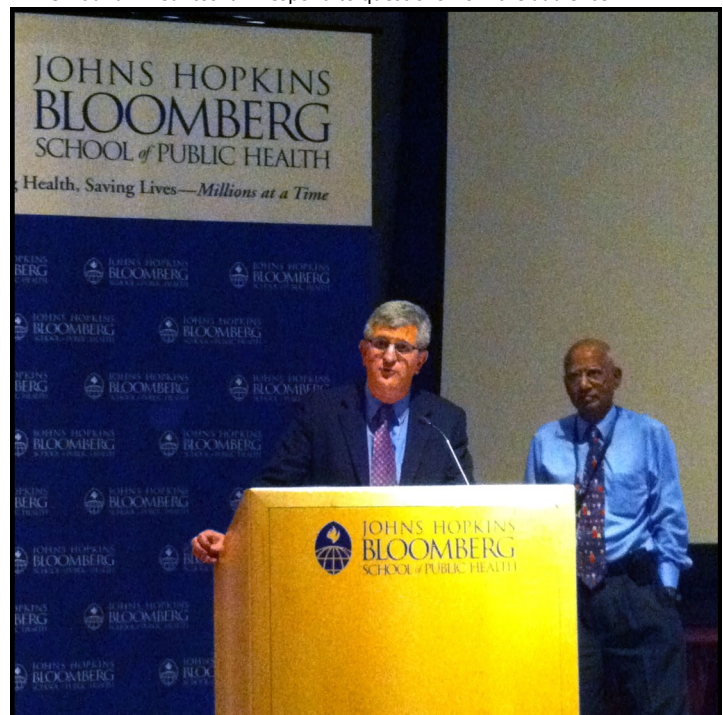
A Lecture by
Brian Deer
Investigative Journalist

Brian Deer's recent series in the British Medical Journal exposes the fraud in the link between MMR vaccine and autism. Mr. Deer is an award-winning British investigative reporter, also known for inquiries into the drug industry, medicine and social issues for the Sunday Times of London.

briandeer.com for more info
www.vaccinesafety.edu for BMJ links

Tuesday, April 19, 2011 • Noon - 1:30 pm
Sommer Hall, Room E2014
Reception to follow in Feinstone Hall.

Dr. Offit and Dr. Santosham respond to questions from the audience



Center for Immunization Research 25th Anniversary Celebration

The Johns Hopkins Center for Immunization Research (CIR) celebrated 25 years of innovative vaccine research on November 22, 2010 at the CIR inpatient research facility at the Johns Hopkins Bayview Campus in Baltimore, Maryland.



The Center for Immunization Research was established in 1985 by Dr. Mary Lou Clements-Mann to facilitate the development of new vaccines for infectious diseases of global importance. The CIR is part of the Department of International Health, Johns Hopkins Bloomberg School of Public Health. The CIR currently focuses on phase I and II evaluation of respiratory virus vaccines

(respiratory syncytial virus [RSV], human metapneumovirus [HMPV], influenza, and parainfluenza [PIV]), flavivirus vaccines (dengue virus, West Nile virus, and tickborne encephalitis virus), malaria vaccines, and enteric vaccines (norovirus, enterotoxigenic *E. coli* [ETEC] and *Shigella*).

Faculty members have laboratory as well as clinical trials expertise and work closely with partners at NIAID/NIH, the Gates Foundation/PATH, the US Department of Defense (DoD), and industry to develop innovative clinical and laboratory methods for the evaluation of these vaccines. The CIR conducts outpatient vaccine trials in adults and children as well as inpatient challenge studies in adults to characterize the virulence of wild-type viruses and to assess the potential efficacy of viral and enteric bacterial vaccines. Several of the CIR faculty teach principles of good clinical practice (GCP) for vaccine trials in online courses and in workshops around the world.

Dr Clayton Harro, Dr. David Sack, and their research team most recently used the inpatient unit to conduct a phase I evaluation of a shigella vaccine.

The research is sponsored by the Enteric Vaccine Initiative (EVI) at PATH.

Additional information can be found www.jhsph.edu/cir

Below: Dr. Anna Durbin, Donna Shaffer and Bridget McMahon

Right: Dean Klag with CIR faculty and staff





Johns Hopkins
Vaccine Initiative

Selected Faculty Publications and Faculty in the News

[Determinants of influenza vaccine purchasing decision in the US: a conjoint analysis.](#)

Pereira CC, Mulligan M, Bridges JF, **Bishai D**.
Vaccine. 2011 Feb 4;29(7):1443-7. Epub 2010 Dec 23.
PMID: 21185424

[Vaccine presentation in the USA: economics of pre-filled syringes versus multidose vials for influenza vaccination.](#)

Pereira CC, **Bishai D**.
Expert Rev Vaccines. 2010 Nov;9(11):1343-9. Review.
Erratum in: Expert Rev Vaccines. 2011 Jan;10(1):132.
PMID: 21087111

[Phase 1 trial of the Plasmodium falciparum blood stage vaccine MSP1\(42\)-C1/Alhydrogel with and without CPG 7909 in malaria naïve adults.](#)

Ellis RD, Martin LB, Shaffer D, Long CA, Miura K, Fay MP, Narum DL, Zhu D, Mullen GE, Mahanty S, Miller LH, **Durbin AP**. PLoS One. 2010 Jan 22;5(1):e8787.

[Heterotypic dengue infection with live attenuated monotypic dengue virus vaccines: implications for vaccination of populations in areas where dengue is endemic.](#)

Durbin AP, Schmidt A, Elwood D, Wanionek KA, Lovchik J, Thumar B, Murphy BR, Whitehead SS.
J Infect Dis. 2011 Feb 1;203(3):327-34. Epub 2010 Dec 14. PMID: 21208923

[Successful respiratory immunization with dry powder live-attenuated measles virus vaccine in rhesus macaques.](#)

Lin WH, **Griffin DE**, Rota PA, Papania M, Cape SP, Bennett D, Quinn B, Sievers RE, Shermer C, Powell K, Adams RJ, Godin S, Winston S.
Proc Natl Acad Sci U S A. 2011 Feb 15;108(7):2987-92. Epub 2011 Jan 31. PMID: 21282608

[Peruvian FSWs: understanding HPV and barriers to vaccination.](#)

Brown B, Carcamo C, Blas MM, Valderrama M, **Halsey N**. Vaccine. 2010 Nov 16;28(49):7743-7. Epub 2010 Oct 16. PMID: 20932498

[Smallpox Virus Destruction and the Implications of a New Vaccine.](#) **Henderson DA**. Biosecur Bioterror. 2011 Mar 16. [Epub ahead of print] PMID: 21410355

[Pre- and post-conjugate vaccine epidemiology of pneumococcal serotype 6C invasive disease and carriage within Navajo and White Mountain Apache communities.](#)

Millar EV, Pimenta FC, Roundtree A, Jackson D, Carvalho Mda G, **Perilla MJ**, **Reid R**, **Santosham M**, Whitney CG, Beall BW, **O'Brien KL**.
Clin Infect Dis. 2010 Dec 1;51(11):1258-65. Epub 2010 Oct 29. PMID: 21034194

[The role of research in viral disease eradication and elimination programs: lessons for malaria eradication.](#)

Breman JG, de Quadros CA, Dowdle WR, Foegen WH, **Henderson DA**, John TJ, Levine MM.
PLoS Med. 2011 Jan 25;8(1):e1000405. PMID: 21311582

[An open label Phase I trial of a live attenuated H6N1 influenza virus vaccine in healthy adults.](#)

Talaat KR, **Karron RA**, Luke CJ, Thumar B, McMahon BA, Chen GL, Lamirande EW, Jin H, Coelingh KL, Kemble G, Subbarao K. Vaccine. 2011 Mar 4. [Epub ahead of print] PMID: 21377509

[Sex differences in the vaccine-specific and non-targeted effects of vaccines.](#)

Flanagan KL, **Klein SL**, Skakkebaek NE, Marriott I, Marchant A, Selin L, Fish EN, Prentice AM, Whittle H, Benn CS, Aaby P. Vaccine. 2011 Mar 16;29(13):2349-54. Epub 2011 Feb 5.

[Rethinking the benefits and costs of childhood vaccination: The example of the Haemophilus influenzae type b vaccine.](#)

Bärnighausen T, Bloom DE, Canning D, Friedman A, **Levine OS**, O'Brien J, **Privor-Dumm L**, Walker D. Vaccine. 2011 Mar 16;29(13):2371-80. Epub 2010 Dec 13.

[A policy framework for accelerating adoption of new vaccines.](#)

Levine OS, Hajjeh R, Wecker J, Cherian T, **O'Brien KL**, **Knoll MD**, **Privor-Dumm L**, Kvist H, Nanni A, **Bear AP**, **Santosham M**. Hum Vaccin. 2010 Dec 1;6(12).

[Immunologic basis for revaccination of HIV-infected children receiving HAART.](#)

Rainwater-Lovett K, **Moss WJ**.
Future Virol. 2011 Jan 1;6(1):59-71. PMID: 21339832

To contact JHVI:

Amber Bickford Cox, MPH
Program Manager, JHVI
Johns Hopkins Bloomberg School
of Public Health
Hampton House
624 N. Broadway, Room 237
Baltimore MD, 21205

email: jhvi@jhsph.edu
phone: 410-287-4734
fax: 410-502-6898

<http://www.jhsph.edu/vaccineinitiative>

[Maternal influenza vaccination and effect on influenza virus infection in young infants.](#)

Eick AA, Uyeki TM, Klimov A, Hall H, **Reid R**, **Santosham M**, **O'Brien KL**.
Arch Pediatr Adolesc Med. 2011 Feb;165(2):104-11. Epub 2010 Oct 4. PMID: 20921345

JHVI Spark Program

Accepting Applications

The Johns Hopkins Vaccine Initiative (JHVI) Spark Program is now accepting applications for faculty awards on an ongoing (rolling) basis. The Spark Program is meant to assist JHSPH faculty in their efforts to improve vaccine-related training and education opportunities for students and to create an opportunity for new or expanded collaborative research in the vaccine sciences.

The total budget for proposed activities cannot exceed \$1,500. For more information, please see the [JHVI Spark Award website](#).