

CURRICULUM VITAE

NAME

Arthur Lyons, PhD, MD, COL, MC
Viral Disease Branch
Walter Reed Army Institute of Research
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PERSONAL INFORMATION

Date of Birth: October 12, 1963
Place of Birth: London, United Kingdom
Citizenship: United States

EDUCATION

1981-1985 BS The College of William and Mary in Virginia, Williamsburg, VA
1985-1990 PhD (Organic Chemistry) The University of Iowa, Iowa City, IA
1991-1995 MD The University of Iowa, Iowa City, IA
1995-1996 Internship, Tripler Army Medical Center, Honolulu, HI
1996-1998 Residency in Medicine, Tripler Army Medical Center, Honolulu, HI
1998-2001 Fellowship in Infectious Diseases, Walter Reed Army Medical Center, Washington, DC

CURRENT PROFESSIONAL POSITIONS

2002- Assistant Professor of Medicine, Uniformed Services University of the Health Sciences, Bethesda, MD
2010- US-Georgia Liaison Officer and DoD Science Advisor, Tbilisi, Country of Georgia
2011- Chief, Operational Research Department, Viral Disease Branch, Walter Reed Army Institute of Research, Silver Spring, MD
2011- Medical Staff, Walter Reed National Military Medical Center, Bethesda, MD
2011- Training Site Faculty, American Heart Association Military Training Network, Walter Reed National Military Medical Center, Bethesda, MD
2012- Courtesy Associate Professor, College of Public Health and Health Professions, Department of Environmental and Global Health, University of Florida, Gainesville, FL

BOARD CERTIFICATION

1998 National Board of Medical Examiners (Parts 1,2,3)
2000 American Board, Internal Medicine, Certificate number: 182854; Recertified in 2008

2001 Infectious Diseases, American Board of Internal Medicine, Certificate number: 182854; Recertified in 2010

MEDICAL LICENSURE

1995 Hawaii, License MD-10327

HONORS/AWARDS

1987 Florence Olson England Scholarship, University of Iowa, Iowa City, IA

1991 Health Professions Scholarship, University of Iowa, Iowa City, IA

2001 Finalist, Bailey K Ashford Award, Walter Reed Army Medical Center, Washington, DC

2008 Excellence Award in Military Medical Research, Vth Pan American Congress of Military Medicine, San Antonio, TX

2008 Order of Military Medical Merit; Membership Number 8162

2009 8Z Skill Identifier

2012 A Proficiency Designator

1998, 2001 Army Achievement Medal

2001,2002 Army Commendation Medal

2002 Combat Medical Badge, Kandahar, Afghanistan

2005 William T. Ryder Award: Officer Honor Graduate, Basic Airborne Course (24-05), Ft. Benning, GA.

2006 German Troop Duty Proficiency Badge

2007, 2010, 2011 Meritorious Service Medal

PREVIOUS PROFESSIONAL POSITIONS

1985-1988 Teaching Assistant, University of Iowa, Iowa City, IA

1990-1991 Post-Doctoral Research Fellow, Organic Chemistry, University of Iowa, Iowa City, IA

2001-2002 Infectious Disease Officer, Department of Viral Diseases, Division of Communicable Diseases and Immunology, Walter Reed Army Institute of Research, Silver Spring, MD

2001-2002 PROFIS Physician, 626th Forward Support Battalion, 3rd Brigade Combat Team, 101st Airborne Division, Qandahar, Afghanistan

2002 Brigade Surgeon, 3rd Brigade Combat Team, 101st Airborne Division, Qandahar, Afghanistan

2002 Infectious Disease Consultant to the Commander, CJTF 180 and Surgeon, CJTF 180, Operation Enduring Freedom, Bagram, Afghanistan Jan-August, 2002.

2003-2011 Medical Staff, National Capitol Area Consortium, Washington, DC

2003-2008 Head, Japanese Encephalitis Vaccines Section, Department of Virus Diseases, Walter Reed Army Institute of Research, Silver Spring, MD

2008-2011 Chief, Clinical Research Department, Division of Viral Diseases, Walter Reed Army Institute of Research, Silver Spring, MD

GRANTS/FUNDING

2000-2001 Development of a Human Dengue Challenge Model, Iteration 2, \$300K, United States Army Medical Materiel Development Agency, Arthur Lyons, Principal Investigator.

2000-2003 Japanese Encephalitis Vaccine Development Program, \$2.5M, United States Army Medical Materiel Development Agency, Arthur Lyons, Principal Investigator.

2002-2005 Adenovirus Type 4 and 7 Vaccine Development Program, \$17.0M, United States Army Medical Materiel Development Agency, Arthur Lyons, Principal Investigator.

2004 Adenovirus Type 4 and 7 Seroprevalence Study, \$500K, United States Army Medical Materiel Development Agency, Arthur Lyons, Principal Investigator.

2006-2009 Japanese Encephalitis Vaccine Development Program, \$20.0M, Intercell AG (Austria), Arthur Lyons, Principal Investigator.

2008-2010 Influenza Surveillance in Department of State and Department of Interior, \$1.8M, Global Infectious Disease Surveillance System, Arthur Lyons, Principal Investigator.

2008-2009 Phase 2 Trial of the WRAIR Dengue LAV Vaccine in Puerto Rico, \$10M, United States Army Medical Materiel Development Agency, Arthur Lyons, Lead Project Consultant.

2009-2010 Dengue Surveillance in United States Special Operations Command (USASOC) in Latin America, \$300K, USASOC, Arthur Lyons, Principal Investigator.

2011-2013 Prospective Dengue Surveillance in United States Special Operations Command (USASOC) Personnel Deployed to SE Asia and Latin America, \$500K, USASOC, Arthur Lyons, Principal Investigator.

PROFESSIONAL SOCIETIES

1985-1991 American Chemical Society
Member, 1985

1995- American Medical Association
Member, 1995

1995- Infectious Diseases Society of America
Fellow, 2010

1995- American College of Physicians
Fellow, 2010

1997- American Society of Tropical Medicine
Member, 1997

1998- Armed Forces Infectious Disease Society
Member, 1998

2012- International Society of Infectious Diseases
Member, 2012

EDITORIAL ACTIVITIES

Reviewer, ATTD-WIHV-2-MR, US Army Medical Research and Materiel Command (USAMRMC), Congressionally Directed Medical Research Programs (CDMRP), FY 2008 Deployment Related Medical Research Program (DRMRP).

Reviewer, Military Medicine Journal (2012-present)

USUHS TEACHING ACTIVITIES

Attending, Infectious Diseases Service, Walter Reed Army Medical Center, Washington, DC (2003-2005, 2007, 2008, 2010)

Attending, Infectious Diseases Service, National Naval Medical Center, Bethesda, MD (2006, 2009, 2011)

Preceptor, Clinical Concepts (2002-2005)

Preceptor, 2nd Year Medical History/Physical Examination (2004-2006)

Preceptor, Ambulatory 3rd Year Internal Medicine Clerkship (2005-present)

Preceptor, ICM-II/ICM-III (2005-present)

Preceptor, ACSC/ICR (2012, 2013)

OTHER TEACHING ACTIVITIES

Training Site Faculty, Basic Life Support, American Heart Association Military Training Network, Washington, DC (2005-present)

Training Site Faculty, Advanced Cardiac Life Support, American Heart Association Military Training Network, Washington, DC (2005-present)

Instructor, Pediatric Advanced Life Support, American Heart Association Military Training Network, Washington, DC (2013-present)

Faculty, WRAIR Tropical Medicine Course, Silver Spring, MD (2009-present)

Faculty, Clinicians Training Course in Tropical Medicine, Tbilisi, Georgia (2011-present)

OTHER PROFESSIONAL ACTIVITIES

Member, US Army Theater Epidemiological Board, United States Army Central (ARCENT), Coalition Forces Land Component Command (CFLCC), Bagram, Afghanistan

2002

Chair, Flavivirus Encephalitis Research Working Group, Department of Virus Diseases,
Walter Reed Army Institute of Research, Silver Spring, MD 2002-2003

WRAIR Representative, Military Infectious Disease Research Strategy Meeting, WRAIR,
Silver Spring, MD, 4 Dec 2007.

Chairperson, Committee HDA-WIHV-3-MR, US Army Medical Research and Materiel
Command (USAMRMC), Congressionally Directed Medical Research Programs
(CDMRP), FY 2008 Deployment Related Medical Research Program (DRMRP).

Member, DoD Joint Influenza Surveillance Working Group 2009-2010

Chair, Standing Scientific Review Committee, Walter Reed Army Institute of Research,
Silver Spring, MD 2009.

Member, NIAID Prevention Science Review Committee (PSRC) 2009-

WRAIR representative, Pandemic Influenza and Infectious Disease Global
Synchronization Working Group. 2010-

Member, Clinical Group Committee, American Society of Tropical Medicine and
Hygiene 2010-

Member, Global Health Committee, American Society of Tropical Medicine and
Hygiene 2010-

Member, India-US Joint Technical Group 15 2013-

Member, AFHSC-GEIS STI Steering Committee (STISC) 2013-

INVITED EXTRAMURAL PRESENTATIONS

1. Functionalization of Inosine. Presentation to the 99th Annual Meeting of the Iowa Academy of Science, Grinnell College, Grinnell, Iowa, 25 April 1987.
2. Synthetic Approaches to New, Biologically Active Purine Nucleosides. Presentation to the 194th National Meeting of the American Chemical Society, New Orleans, Louisiana, 3 September 1987.
3. New Hypoxanthine Ribonucleosides. Presentation to the 100th Annual Meeting of the Iowa Academy of Science, Iowa State University, Ames, Iowa, 22 April 1988.
4. Novel Approaches to Strategically Functionalized Purine Nucleosides. Presentation to the 3rd Chemical Congress of North America, Toronto, Canada, 5-10 June 1988.

5. Synthesis of Novel Purine Nucleoside Carboxaldehydes. Presentation to the 23rd Midwest Regional Meeting of the American Chemical Society, Iowa City, Iowa, 16-18 November 1988.
6. Novel Functionalized 2'-Deoxynucleosides. Presentation to the 197th National Meeting of the American Chemical Society, Dallas, Texas, 9-14 April 1989.
7. Stereochemical Modifications in Deoxynucleosides. Presentation to the 101st Annual Meeting of the Iowa Academy of Science, Buena Vista College, Storm Lake, Iowa, 22 April 1989.
8. A Case of Epistaxis. Presentation to Greater Washington Infectious Diseases Society, National Institutes of Health, Bethesda, MD, 22 November 1999.
9. A Consequence of Good Oral Hygiene. Presentation to Greater Washington Infectious Diseases Society, National Institutes of Health, Bethesda, MD, 17 November 2000.
10. Clinical and Immunological Evaluations of Five Dengue Viruses as Challenge Strains in Susceptible Volunteers (a collaborative study). Presentation to Glaxo Smith Kline, Silver Spring, MD 28 June 2001.
11. Clinical and Immunological Evaluations of Five Dengue Viruses as Challenge Strains in Susceptible Volunteers. Presentation to the 50th Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, GA, 11-15 November 2001.
12. The C/626 FSB Experience in OEF. Presentation to the 82nd Airborne Division, Quandahar, Afghanistan, July, 2002.
13. The C/626 FSB Experience in OEF. Presentation to Grand Rounds, Walter Reed Army Medical Center, Washington, DC, February, 2003.
14. Japanese Encephalitis Vaccine Initiatives. Presentation to Emerging Technologies and Opportunities: Bioscience, Health and Medical Technologies Showcase, Aberdeen Proving Ground, Aberdeen MD, March 26, 2003.
15. Overview of Japanese Encephalitis and New Vaccine Initiatives at WRAIR. Presentation to VaccGen International, Silver Spring, MD, 10 July 2003.
16. Characterization of Serologic and Virologic Responses of Healthy Adult Volunteers to the Licensed, Live Adenovirus Vaccines. Presentation to Duramed Research, Bala Cynwyd, PA, 10 September 2003.
17. Japanese Encephalitis Vaccine Initiatives. Presentation to Joint Medical Technology Workshop, US Army Medical Research and Materiel Command, Landstown, VA 30 November -3 December 2003.
18. JE Vaccine (JE-PIV). Presentation to MRMC Command, Fort Detrick, MD, 14 June 2004.
19. Adenovirus Vaccine Restoration: Phase 1 Clinical Study. Presentation to Armed Forces Epidemiological Board, San Antonio, TX, 22 August 2004.
20. Adenovirus Vaccine Restoration: Phase 1 Clinical Trial. Presentation to Armed Forces Epidemiological Board, 21 September, 2004.
21. Vaccine Restoration: Phase 1 Clinical Trial. Presentation to 32d Medical Brigade and 232nd Medical Battalion, AMEDDC&S, Fort Sam Houston, TX, 22 November, 2004.
22. Adenovirus Protection for IET Recruits: Plan for Vaccine Restoration. Presentation to TRADOC, Fort Monroe, VA, 14 February 2005.

23. Adenovirus Vaccine Restoration: Phase 1 Clinical Trial. Presentation to 32d Medical Brigade, AMEDDC&S, Fort Sam Houston, TX, 20 May 2005.
24. Japanese Encephalitis Vaccine (JE-PIV, IC51). Presentation to USAMRMC, Ft. Detrick, MD, 5 October 2005.
25. Adenovirus Vaccine Restoration: A Clinical Perspective. Presentation to Armed Forces Epidemiological Board, San Antonio, TX, 6 December 2005.
26. A Double-Blind, Placebo Controlled Study to Evaluate the Safety and Immunogenicity of the New, Live, Oral Type-4 and Type-7 Adenovirus Vaccines in Military Trainees. Presentation to 9th International Respiratory Virus Infection Symposium, Kohala Coast, Hawaii, 16 March 2006.
27. A Double-Blind, Placebo Controlled Study to Evaluate the Safety and Immunogenicity of the New, Live, Oral Type-4 and Type-7 Adenovirus Vaccines in Military Trainees. Presentation to 25th Army Science Conference, Orlando, FL, 27-30 Nov 2006.
28. Adenovirus Vaccine Restoration. Presentation to Armed Forces Infectious Disease Society, Gettysburg, PA, 17 April 2007.
29. ADENO VACCINE TRIAL STUDY, Unit Responsibilities & Procedures for 2nd Battalion, 39th Infantry Regiment. Presentation to 2nd Battalion, 39th Infantry Regiment, Fort Jackson, SC, 17 May 2007.
30. Adenoviral Vaccines, Old and New. Presentation to US Army/Society of USAF Physicians Chapters of the ACP, San Antonio, TX, 14-18 Nov 2007.
31. Viral Respiratory Illness in the US Military. Presentation to Military Infectious Disease Research Strategy Meeting, WRAIR, Silver Spring, MD, 4 Dec 2007
32. Adenovirus Respiratory Disease and Vaccine Restoration. Presentation to Infectious Disease Rounds, WRAMC, Washington, DC, 18 Jan 2008.
33. Adenovirus Respiratory Disease and Vaccine Restoration. Presentation to Grand Rounds, WRAMC, Washington, DC, 22 Feb 2008.
34. Rapid Diagnostic Testing from a DoD Perspective. Presentation to the U.S. Interagency Workshop on Rapid Diagnostics for Detection of Novel Human Influenza Viruses, Washington Navy Yard, Washington, DC, 21-22 April 2008.
35. Dengue: Update from the DoD Perspective. Presentation to the V Pan American Congress on Military Medicine, San Antonio, TX, 13 November 2008.
36. Japanese Encephalitis and New Vaccine Initiatives. Presentation to the Armed Forces Infectious Diseases Society, Kona Kai Resort, San Diego, CA 30 Mar 2009.
37. Emerging Infectious Disease Research Unit. Presentation to the 2010 DoD Joint Influenza Surveillance Working Group Meeting, San Antonio, Texas, 13-14 April 2010.
38. Walter Reed Army Institute of Research-International Activities. Presentation to Countering Biological Threats: National Implementation of the Biological Weapons Convention and Multinational Outbreak Response and Bioterrorism Investigation Demonstration, Sheraton Metechi Palace, Tbilisi, Georgia, 17-19 May 2011.
39. Georgian Central Public Health Reference Laboratory. Presentation to the Anticipating Biosecurity Challenges of the Global Expansion of High Containment Biological Laboratories Conference, Istanbul, Turkey, 11-13 July 2011.

BIBLIOGRAPHY

PEER-REVIEWED PUBLICATIONS

1. Nair V, **Lyons AG**: Novel Unsaturated Purine Nucleosides. *Tetrahedron* 1989; 45(12): 3653-62.
2. Nair V, **Lyons AG**: Hypoxanthine Nucleoside Counterparts of the Antibiotic, Cordycepin. *Tetrahedron* 1990; 46(23): 7677-92.
3. Nair V, **Lyons AG**, Purdy DF: Novel Dideoxynucleoside Isosteres. *Tetrahedron* 1991; 47(43): 8949-68.
4. Nair V, Purdy DF, **Lyons AG**: Novel Analogs of the Nucleoside Antibiotic, Cordycepin. *Nucleosides & Nucleotides* 1991; 10(1-3): 497-98.
5. Van Gessel Y, Putnak R, Gettayacamin M, Klade C, Tauber E, **Lyons A**, Sun W, Dewasthaly S: Passive Transfer of Human Antibodies against a New Japanese Encephalitis Virus Vaccine Protects Mice against Lethal Dose of Virus. *American Journal of Tropical Medicine and Hygiene* 2006; 75(5, Suppl S): 282-83.
6. **Lyons AG**, Kanesa-thasan N, Kushner RA, Eckels KH, Putnak R, Sun W, Burge R, Towle AC, Wilson P, Tauber E, Vaughn DW: A Phase 2 Study of a Purified, Inactivated Virus Vaccine to Prevent Japanese Encephalitis. *Vaccine* 2007; 25(17): 3445-53.
7. Neville JS, Bunning M, **Lyons A**, Russell KL, Faix D, Blaessing C, Johns N, Gaydos J: Challenges Associated with the Emergence of Adenovirus Type 14 at US Military Training Centers. *Military Medicine* 2008; 173(9): 824.
8. Statler J, Mammen M, **Lyons A**, Sun W: Sonographic Findings of Healthy Volunteers Infected with Dengue Virus. *Journal of Clinical Ultrasound* 2008; 36(7): 413-17.
9. Tauber E, Kollaritsch H, von Sonnenburg F, Lademann M, Jilma B, Firbas C, Jelinek T, Beckett C, Knobloch J, , McBride WJH, Schuller E, Kaltenböck A, Sun W, **Lyons A**: Randomized, Double-Blind, Placebo-Controlled Phase 3 Trial of the Safety and Tolerability of Ic51, an Inactivated Japanese Encephalitis Vaccine. *Journal of Infectious Diseases* 2008; 198(4): 493-99.
10. **Lyons, A**, Longfield, J, Kushner, R, Straight, T, Binn, L, Seriwatana, J, Reitstetter, R, Froh, IB, Craft, D, McNabb, K, Russell, K, Liss, A, Sun, X, Towle, A, Sun, W: A Double-Blind, Placebo Controlled Study to Evaluate the Safety and Immunogenicity of the New, Live, Oral Type-4 and Type-7 Adenovirus Vaccines in Military Trainees. *Vaccine* 2008; 26(23): 2890-98.
11. Caci JB, Tack DM, **Lyons A**: Seroprevalence of Dengue in United States Army Special Operations Command Personnel. *American Journal of Tropical Medicine and Hygiene* 2009; 81(5): 226-27.
12. Houg HH, Gong H, Kajon AE, Jones II MS, Kushner RA, **Lyons AG**, Lott L, Lin K-H, Metzgar D: Genome Sequences of Human Adenovirus 14 Isolates from Mild Respiratory Cases and a Fatal Pneumonia, Isolated During 2006-2007 Epidemics in North America. *Respiratory Research* 2010; 11: 116-123.
13. Caci JB, **Lyons A**, Tack DM: Seroprevalence of Dengue Fever in Us Army Special Operations Forces - Initial Results and the Way Forward. *American Journal of Tropical Medicine and Hygiene* 2010; 83(5): 28.
14. Washington C, Metzgar D, Hazbón MH, Binn L, Houg H, **Lyons A**, Coward C, Kushner R: Multiplexed Luminex Xmap Assay for Detection and Identification of Five Adenovirus Serotypes Associated with Epidemics of Respiratory Disease in Adults. *Journal of Clinical Microbiology* 2010; 48(6): 2217-22.

15. Houg HH, Zhou Y, **Lyons A**, Solovyov A, Street C, Firth C, Lipkin WI, Myers C, Blair P, Kuschner R: Evolutionary Studies of 2009 H1n1 Pandemic Via Next Generation Sequencing (Ngs): Circulating Influenza a from the Worldwide Locations Are the Variants of Original 2009 H1n1. *Influenza and Other Respiratory Viruses* 2011; 5: 398-402.
16. Gunther, V. J., Putnak, R., Eckels, K., Mammen M.P., Scherer, J.M., **Lyons, A.**, Sztein, M.B., Sun, W: A Human Challenge Model for Dengue Infection Reveals a Possible Protective Role for Sustained Interferon Gamma Levels During the Acute Phase of Illness. *Vaccine* 2011; 29(22): 3895-904.
17. Sanchez JL, Johns MC, Burke RL, Vest KG, Fukuda MM, Yoon IK, Lon C, Quintana M, Schnabel DC, Pimentel G, Mansour M, Tobias S, Montgomery JM, Gray GC, Saylor K, Ndip LM, Lewis S, Blair PJ, Sjoberg PA, Kuschner RA, Russell KL, Blazes DL, and Witt CJ AFHSC-GEIS Capacity Building Writing Group, Money NN, Gaydos JC, Pavlin JA, Gibbons RV, Jarman RG, Stoner M, Shrestha SK, Owens AB, Iio N, Osuna MA, Martin SK, Gordon SW, Bulimo WD, Waitumbi DJ, Assefa B, Tjaden JA, Earhart KC, Kasper MR, Brice GT, Rogers WO, Kochel T, Laguna-Torres VA, Garcia J, Baker W, Wolfe N, Tamoufe U, Djoko CF, Fair JN, Akoachere JF, Feighner B, Hawksworth A, Myers CA, Courtney WG, Macintosh VA, Gibbons T, Macias EA, Grogl M, O'Neil MT, **Lyons AG**, Houg HS, Rueda L, Mattero A, Sekonde E, Sang R, Sang W, Palys TJ, Jerke KH, Millard M, Erima B, Mimbe D, Byarugaba D, Wabwire-Mangen F, Shiao D, Wells N, Bacon D, Misinzo G, Kulanga C, Haverkamp G, Kohi YM, Brown ML, Klein TA, Meyers M, Schoepp RJ, Norwood DA, Cooper MJ, Maza JP, Reeves WE, Guan J: Capacity-Building Efforts by the AFHSC-GEIS Program. *BMC Public Health* 2011; 4(11, Suppl 2): S4.
18. Houg HH, Garner J, Zhou Y, **Lyons A**, Kuschner R, Deye G, St. Clair K, Douce RW, Chicaiza W, Blair PJ, Myers CA, Burke RL, Sanchez JL, Williams M, Halsey ES: Emergent 2009 Influenza a(H1n1) Viruses Containing Ha D222n Mutation Associated with Severe Clinical Outcomes in the Americas. *Journal of Clinical Virology* 2012; 53(1): 12-15.
19. Sun W, Eckels KH, Putnak JR, **Lyons AG**, Thomas, SJ, Vaughn DW, Gibbons RV, Fernandez S, Gunther VJ, Mammen MPJr, Statler JD, Innis BL: Experimental Dengue Virus Challenge of Human Subjects Previously Vaccinated with Live-Attenuated Tetravalent Dengue Virus Vaccines. *Journal of Infectious Diseases* 2012; doi: 10.1093/infdis/jis744.
20. **Kuschner RA**, Russell KL, Abuja M, Bauer KM, Faix DJ, Hait H, Henrick J, Jacobs M, Liss A, Lynch JA, Liu Q, **Lyons AG**, Malik M, Moon JE, Stubbs J, Sun W, Tang D, Towle AC, Walsh DS, Wilkerson D, The Adenovirus Vaccine Efficacy Trial Consortium. A phase 3, randomized, double-blind, placebo-controlled study of the safety and efficacy of the live, oral adenovirus type 4 and type 7 vaccine, in U.S. military recruits. *Vaccine* 2013; 31(28): 2963-2971.

ABSTRACTS

POSTER FORMAT

1. Kuschner R, **Lyons A**, Hernandez L, Putnak R, Eckels K, Kester K, Vaughn D, Kanesthasan N: Phase 1b Study of the WRAIR Purified, Inactivated Vaccine for Japanese Encephalitis (JE-PIV) Poster Presentation to the 50th Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, GA, 11-15 November 2001.
2. **Lyons AG**, Kuschner RA, Putnak JR, Eckels KH, Sun W, Towle AC, Tauber E, Vaughn DW: Long Term Immunogenicity Results of a Phase 2 Study of Purified, Inactivated Vaccine Against Japanese Encephalitis Virus (IC51, JE-PIV). Poster Presentation to American Society of Tropical Medicine and Hygiene. 53rd Annual Meeting, Miami, FL, November 2004.
3. **Lyons, A**, Longfield, J, Kuschner, R, Straight, T, Binn, L, Seriwatana, J, Reitstetter, R, Froh, IB, Craft, D, McNabb, K, Russell, K, Liss, A, Sun, X, Towle, A, Sun, W: A Double-Blind, Placebo Controlled Study to Evaluate the Safety and Immunogenicity of the New, Live, Oral Type-4 and Type-7 Adenovirus Vaccines in Military Trainees, Poster Presentation to VIII International Symposium on Respiratory Viral Infections, Kohala Coast, HI, 16-19 March 2006.
4. Gunther VJ, Vahey M, Das R, Hammamieh R, Jett M, Putnak RJ, Fernandez S, Palmer DR, **Lyons AG**, Eckels KH, Thomas SJ, Gibbons RV, Sun W, Vaughn DW: Gene Expression in Vaccinated Volunteers Challenged With Dengue Virus. Poster presentation to the 8th Annual International Biodetection Technologies Conference, Baltimore, MD, 15-16 June, 2006.
5. **Lyons, A**, Longfield, J, Kuschner, R, Straight, T, Binn, L, Seriwatana, J, Reitstetter, R, Froh, IB, Craft, D, McNabb, K, Russell, K, Liss, A, Sun, X, Towle, A, Sun, W: A Double-Blind, Placebo Controlled Study to Evaluate the Safety and Immunogenicity of the New, Live, Oral Type-4 and Type-7 Adenovirus Vaccines in Military Trainees. Poster Presentation to 25th Army Science Conference, Orlando, FL, 27-30 Nov, 2006.
6. **Lyons, A**: A Comparison of Laboratory Testing Methods for the Detection of Adenovirus. Poster Presentation to VIII International Symposium on Respiratory Viral Infections, Kohala Coast, Hawaii, 16-19 March 2006.
7. Caci JB, Tack D, **Lyons, A**: Seroprevalence of Dengue in US Army Special Operations Forces. Poster Presentation to the 58th Annual Meeting of the American Society of Tropical Medicine and Hygiene, Washington DC, 18-20 November 2009.
8. Hazbon MH, Brambilla DJ, Forman S, Giambra A, Sharples N, Mattero A, **Lyons AG**, Kuschner RA: Preservation of Nucleic Acids from Clinical Specimens Exposed to Extreme Temperatures. Poster Presentation to the 26th Clinical Virology Symposium, Daytona Beach, Florida, 25-28 April 2010.
9. Houg HSH, Zhou Y, **Lyons A**, Solovyov A, Street C, Firth C, Lipkin WI Myers C, Blair P, Kuschner R: 2010. Evolutional Studies of 2009 H1N1 Pandemic via Next Generation Sequencing (NGS): Circulating Influenza A or Worldwide Infections are the Variants of Original 2009 H1N1. Poster Presentation to the Options for the Control of Influenza VII Conference, Hong Kong, China, 3-7 September 2010.
10. Caci JB, **Lyons A**, Tack DM: 2010. Seroprevalence of Dengue Fever in US Army Special Operations Forces-Initial Results and the Way Forward. Poster Presentation to the 59th Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, Georgia, 3-7 November 2010.

11. Machablashvili A, Jashiashvili T, Tevdoradze T, Chanturia G, Zhgenti E, Farlow J, Nikolich M, **Lyons A**, and Houg HS: 2012. Molecular analysis and characterization of 2012 Georgia influenza H3N2 HA revealing the genetic ties to the WHO recommended 2013/2012 H3N2 vaccine candidate, A/Victoria/361/2011. Poster Presentation to the ISIRV Incidence, Severity and Impact Conference, Munich, Germany, 5-8 September 2012.
12. Hesse EM, Martinez LJ, Jarman R, **Lyons A**, Putnak R, De La Barrera R, Thomas S: 2012. Dengue Virus Infection of US Military Service Members Following Deployment to Dengue Endemic Regions. Poster Presentation to the 61st Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, Georgia, 11-15 November 2012.
13. Caci JB, Blaylock J, DeLa Barrera R, **Lyons A**: 2012. Seroprevalence of Dengue Fever in US Army Special Operations Forces. Poster Presentation to the 61st Annual Meeting of the American Society of Tropical Medicine and Hygiene, Atlanta, Georgia, 11-15 November 2012.

PODIUM FORMAT

1. Nair V, Buenger GS, Lyons AG, Sells T: Novel Approaches to Strategically Functionalized Purine Nucleosides. *Abstracts of Papers of the American Chemical Society* 1988; 195: 320.
2. Nair V, Lyons AG, Purdy DF, Handy ST: Isosteres of Dideoxyinosine and Dideoxyguanosine. *Abstracts of Papers of the American Chemical Society* 1991; 201: 33.
3. Nair V, Lyons AG, Purdy D, Fasbender AJ: Novel Functionalized 2'-Deoxynucleosides. *Abstracts of Papers of the American Chemical Society* 1989; 197: 39.
4. Nair V, Turner GA, Buenger GS, Lyons AG: Synthetic Approaches to New, Biologically-Active Purine Nucleosides. *Abstracts of Papers of the American Chemical Society* 1987; 194: 238.
5. Kuschner RA, Lyons A, Hernandez LA, Putnak JR, Eckels KH, Vaughn DW, et al: Phase 1b Study of the WRAIR Purified Inactivated Vaccine for Japanese Encephalitis (JE-PIV). *American Journal of Tropical Medicine and Hygiene* 2001; 65(3 Suppl): 396.
6. Lyons AG, Mammen MP, McKinney DA, Sun W, Kanasa-thasan N, Vaughn DW: Clinical Evaluation of Dengue Viruses as Challenge Strains in Susceptible Volunteers. *American Journal of Tropical Medicine and Hygiene* 2001; 65(3 Suppl): 396.
7. Asher LVS, Mammen MP, **Lyons AG**, Thomas S, Sun W, Chung RCY, et al: Platelet Phagocytosis and Neutrophil Apoptosis Might Account for Thrombocytopenia and Neutropenia in Dengue Patients. *American Journal of Tropical Medicine and Hygiene* 2001; 65(3 Suppl): 388.
8. Asher LVS, Norton AS, Krivda S, Wong HK, Mammen MP, **Lyons AG**, et al: Degranulation of Mast Cells in Dengue Patients. *Microscopy and Microanalysis* 2002; 8(Suppl 2): 920-21CD.
9. Gunther V, V. M., Das R, Hammamieh R, Jett M, Putnak R, **Lyons A**, et al: *Gene Expression in Vaccinated Volunteers Challenged with Dengue Virus*. 8th International Conference on Biodetection Technologies. 2006.

10. Kuschner RA, **Lyons AG**, Binn LN, Thomas SG. *US Military Adenovirus Experience: Before and After Vaccine Deployment.*

OTHER SCHOLARLY WORKS

1. **Lyons A:** Dengue: The Breakbone Fever. Adopted as a handout for the WRAIR Tropical Medicine course, 2009. Revised 2013.
2. **Lyons A:** Introduction to the Threat Agent Detection Response System. Adopted as a handout for the Clinicians Training Course in Tropical Medicine, Tbilisi, Georgia, 2011.