

Kirsten St. George
(Formerly Kirsten Dahlenburg)

Laboratory of Viral Diseases
Wadsworth Center, David Axelrod Institute
120 New Scotland Avenue
Albany, NY 12208

(518) 474 4177

Kirsten.St.George@health.ny.gov

QUALIFICATIONS

B.App.Sc.	University of South Australia	1980
M.App.Sc.	University of South Australia	1986
Ph.D.	University of Pittsburgh	2004

Licensure: New York State Department of Health, Certificate of Qualification
(Laboratory Director's License), Category: Virology

New York State Education Department Licensed Clinical Laboratory Technologist
(License Number 008018-1)

AWARDS

Graduate Student and Travel Awards

1990 Annual Fellowship Award, Abbott Diagnostics Division Australia
1995 Travel Award, Pan American Society for Clinical Virology
1997 Travel Award, International Cytomegalovirus Workshop
2000 Outstanding Poster Award, IDM Annual Retreat, University of Pittsburgh
2004 Dean's Day Award, GSPH, University of Pittsburgh

New York State Awards

2006 NYS Commissioner's Recognition Award, Pandemic Influenza Plan Team
2006 NYS Commissioner's Recognition Award, Seneca Lake State Park Outbreak Team
2010 NYS Commissioner's Special Appreciation Award, Pandemic Influenza Response Team
2015 NYS Commissioner's Special Appreciation Award, Ebola Response Team
2019 NYS Commissioner's Recognition Award, Measles Outbreak Response

International/Academic/Professional Awards

2017 Diagnostic Virology Career Achievement Award, Pan American Society for Clinical Virology
2018 Alumni Award, University of South Australia
2022 Fellow of the American Academy of Microbiology

MEMBERSHIP OF PROFESSIONAL SOCIETIES

Australian Institute of Medical Scientists	1982-present
Australian Society for Microbiology	1986-present
American Society for Microbiology	1989-present
International Society for Influenza and Other Respiratory Diseases	1992-present
American Society for Virology	1993-present
Pan American Society for Clinical Virology	1994-present
Association for Molecular Pathology	2000-present
Association of Public Health Laboratories	2005-present
Infectious Diseases Society of America	2021-present
Fellow of the Royal Society of Medicine	2021-present

EMPLOYMENT HISTORY

Chief, Laboratory of Viral Diseases

10/2008 to present

Director, Virology Laboratory

Wadsworth Center, New York State Department of Health

The Laboratory of Viral Diseases (LVD) is comprised of several service laboratories and research teams including general virology and specialty reference services in viral encephalitis, enteric viruses, vaccine preventable diseases and antiviral resistance. Detection and characterization of viruses is with classical and molecular techniques, many of which were developed in the LVD, on specimens received for reference and surveillance testing and the investigation of outbreaks. The laboratory is also responsible for complex public health data management and federal reporting, and provides training for graduate students, fellows, and international laboratory trainees.

Dr. St. George provides overall leadership and direct supervision of the Associate, Assistant and Laboratory Directors within the LVD. She also directs the General Virology Laboratory and the Special Projects Unit, with research on the investigation and development of new testing platforms and chemistries, as well as studies on the genomic characterization and evolution of multiple viruses and drug resistance in influenza. Most recently, efforts have focused on the optimization of detection methods, and the study of pathogenesis and genomic disease associations in SARS-CoV-2 and COVID-19. She also has scientific oversight of the federally funded New York State sequencing consortium for SARS-CoV-2. Dr. St. George is the Principal Investigator for national reference centers for Influenza Surveillance, Vaccine Preventable Diseases, and Influenza Antiviral Resistance, and has federal funding and corporate support for additional influenza surveillance programs and the development of diagnostic devices.

Section Head, Virology

10/2005 to present

Clinical Laboratory Evaluation Program, NYSDOH

The Clinical Laboratory Evaluation Program (CLEP) holds exempt status from the federal Centers for Medicare and Medicaid Services, for laboratories holding NYS clinical laboratory permits. There are approximately 450 NYS-permitted clinical virology laboratories. Section Heads have overall responsibility specific to their field of practice for the CLEP program, including setting parameters and requirements for categories of licensure, writing and advising on standards of practice and the review and approval of validation data for laboratory developed tests.

Soon after the onset of the COVID-19 pandemic in the USA in early 2020, the Wadsworth Center was authorized by the FDA to review and approve laboratory developed tests from high complexity laboratories in NYS for emergency use authorization for the molecular detection of SARS-CoV-2, in lieu of submission to the FDA. Dr. St. George spear-headed the writing of guidance documents and the review and approval of these assays, including those for standard testing, pooled testing, multiplexed testing, and the evaluation of the effects of mutations.

Director, Clinical Virology Program

10/2005 to 10/2008

(Deputy Director, September 2004 – October 2005)

Wadsworth Center, New York State Department of Health

The Clinical Virology Program is the former name of the LVD and previously also included the Viral Genotyping Laboratory.

Director, Virus Reference and Surveillance Laboratory

09/2004 to 12/2007

Wadsworth Center, New York State Department of Health

The VRSL was the largest service laboratory in the Clinical Virology Program at the Wadsworth Center, detecting and characterizing human pathogenic viruses with classical and molecular techniques for surveillance, reference testing and the investigation of disease outbreaks.

Director, Virology Proficiency Testing Program **09/2004 to 06/2010**
Wadsworth Center, New York State Department of Health

The Virology Proficiency Testing Program distributed more than 1200 proficiency testing panels each year, in four categories and six sub-categories of virology, to CLEP-permitted virology laboratories that perform diagnostic tests on specimens from New York State patients. Oversight continued through 2016, at which time the Wadsworth PT program was discontinued.

Through a CDC-funded grant, a molecular influenza proficiency testing program was developed for distribution to Public Health and Dept. of Defense Laboratories throughout the US from 2008 to 2011. The program also investigated matrices for molecular PT sample preparation and molecular sample deterioration kinetics.

Virology Assistant, Division of Clinical Microbiology **06/1992 to 09/2004**
University of Pittsburgh Medical Center (UPMC), Pittsburgh, Pennsylvania USA

Duties included supervision of research and development in the Clinical Virology Laboratory; coordination and supervision of the molecular testing facility of the Clinical Microbiology Division; coordination of quality assurance and proficiency-testing; instruction of residents, fellows, medical technologists, and students in clinical and diagnostic virology; technical specialist and clinical virology consultant.

Supervising Scientist, Virology and Serology Laboratory **09/1985 to 06/1992**
Department of Microbiology, Royal Hobart Hospital, Tasmania, Australia

This was a new staff position; initial tasks included design and oversight of the Virology and Serology Laboratory renovation, design and implementation of cell culture and virus isolation systems, and expansion of the virology and serology service. Duties included laboratory supervision, staff training, work scheduling and allocation, review and trial of new tests, initiation and supervision of development and research, workload analysis, inventory control, document control, quality assurance, review and selection of equipment, and equipment maintenance.

Research Assistant **01/1982 to 09/1985**
Division of Medical Virology, Institute of Medical and Veterinary Science, Adelaide, South Australia

Research Assistant **02/1980 to 12/1981**
Department of Pathology, University of Adelaide, South Australia

TEACHING**Faculty appointments, program design, lectures**

Clinical Professor, Department of Biomedical Sciences **09/2014-present**
Graduate School of Public Health, University at Albany, SUNY, Rensselaer, NY

BMS 557: Emerging Infectious Diseases, Lecturer 2011-present

BMS 555: Biodefense Sciences, Lecturer 2016-present

BMS 556: Biodefense and Emerging Infectious Disease Laboratory 2020-present

BMS 505: Biological Basis of Public Health, Biomedical Science Department, Lecturer 2009

Other service:

Member, judging panel: 3 Minute Thesis Competition, May 21 2018

Member, Faculty Guideline Review Committee for Publicly Engaged Scholarship 2019-2020

Faculty, Master of Science in Laboratory Science, Wadsworth Center **2011- 2019**
New York State Department of Health, Albany, NY

Chair: Curriculum Committee 2016 - 2019

MLS 532 Microbiology and Infectious Diseases: Course design and Lecturer 2011-2019

MLS 530 Microbiol. & Infect. Dis. Laboratory Rotation: Course design and mentor 2011-2019

MLS Capstone mentor 2015, 2017

MLS 531 Principles of Laboratory Management I: Lecturer 2016-2019

Chair: NYS virology laboratory traineeship workshop program **2005-present**

Designed, developed, and coordinated a one-week workshop in Virology at Wadsworth. Offered twice a year and used by trainees towards advancement in the Laboratory Specialist program, the workshop covers classical and molecular virology techniques employed in the identification and characterization of viral pathogens.

Chair: Conference for public health and clinical laboratories: review of response to 2009 H1N1 influenza pandemic **10/2010**

Planned, obtained federal funding, and chaired, a state-wide conference to review the NYS laboratory response to the 2009 H1N1 influenza pandemic. The conference included presentations by clinical and public health lab directors, epidemiologists, and emergency responders, on strategies and experiences. Breakout sessions examined coordination, best practices, limitations, problems, communication, methodology, and regulatory issues. A report on the conference, outcomes of discussions and proposed resolutions was submitted to the CDC.

Chair: Visiting international medical technology student training program **1996-2004**
University of Pittsburgh Medical Center

Designed, developed, and coordinated training program for students from RMIT University in Melbourne, Australia. Students spent three months in pathology laboratories at the University of Pittsburgh and UPMC. Maintained contact with Division head at RMIT University throughout the year to ensure the program remained in compliance with RMIT requirements, designed individual programs for each student in collaboration with department directors and lab supervisors, prepared J-1 visa applications, coordinated accommodation at university dormitories, and coordinated completion and submission of supervisor reports.

Clinical Instructor, Department of Pathology, University of Pittsburgh, Pittsburgh, PA, 2000-2004
 Viral pathogenesis course, Dept. of Infectious Diseases and Microbiology

Lecturer, University of Tasmania, Hobart, Tasmania, Australia
Microbiology and Infectious Diseases, Dept. of Microbiology and Immunology

1988-1992

Mentored students and fellows

Lynsey Schoultz (APHL ID Fellow): July 2022 – June 2023

APHL ID Fellow

Project: Digital PCR detection and whole genome sequencing of hepatitis A from wastewater.

Jennifer Bullard (DrPH Advisory Committee): Nov 2020 – May 2023

College of Public Health, University of South Florida

Project: Coinfecting respiratory viruses in pediatric COVID-19 patients

Hayley Caldwell (PhD Advisory Committee): 2018 – April 2022

SUNY Biomedical Science Department, School of Public Health

Project: Characterization of the role of the primary replicase and quasispecies diversity in flaviviral evolution and host adaptation.

Jonathan Plitnick (MS Fellow): October 2019 – June 2020

EID Fellow, APHL

Characterization of measles strains from the NYS 2018-19 outbreak with NG/WGS analysis

Jessica Gay (MS CLS Capstone): Jan 2020 – March 2020 (terminated due to COVID-19)

SUNY ACPHS Clinical Lab Science Program

Project: Whole genome analysis of Hepatitis A with NGS

Lanilei Doctora (MS Student Rotation): Oct – Dec 2018

SUNY Biomedical Science Department, School of Public Health

Project: NG/WGS analysis of adenoviruses

Lindsay Tomaszek (MS Intern): Feb 2014 – 2017

SUNY, Forensic Biology program, Department of Biological Sciences

Project: Whole genome sequencing and evolutionary analysis of parvovirus B19

Gabriel Solis (MS CLS Capstone): June 2016 to September 2017

SUNY ACPHS Clinical Lab Science Program

Project: Investigation of Genomic Variation in Zika Virus Samples from NYS Cases Using Whole Genome Sequencing of Zika Virus With Ion AmpliSeq™

Hayley Caldwell (MLS Capstone): November 2016 – August 2017

Wadsworth Center MLS Program

Faculty member, advisory committee

Project: Enhanced analysis of recent mumps outbreaks with NGS

Sridevi Ranganathan (Post-doctoral fellow): February 2017 – June 2017

APHL EID Fellowship program

Project: Development of NGS for WGS of Norovirus for enhanced strain analysis and outbreak tracing

William Lainhardt (Post-doctoral fellow): February 2016 – June 2016
NYS EID Program
Project: Host-induced changes in the HA and NA activity of influenza viruses and correlations with genomic sequence changes

Kayleigh Ahern (MLS Capstone): December 2014 – July 2015.
Wadsworth Center MLS Program
Project: Investigation of chromosomally integrated HHV-6 in HHV-6-positive encephalitis patients with digital droplet PCR

Jana McGinnis (Fellow): August 2014 to September 2015
CDC EIP Fellowship
Project: Whole genome analysis with next generation sequencing for detailed surveillance, clinical investigations and the analysis of influenza evolution

Sean Fagan (PhD student rotation): October 2014 – December 2014.
SUNY, Biomedical Science Department, School of Public Health
Project: Whole genomic sequence analysis of enterovirus D68 with next generation sequencing

Yan Chu (Fellow): September – December 2014
Wadsworth Center, EID Fellowship Program
Project: Detection of enterovirus D68: assessment of specific real-time assays

Sara Griesemer (Masters Student): 2013-14
SUNY Biomedical Science Department
External faculty member, advisory committee
Project: Phenotypic, Genotypic, and Host-specific consequences of antiviral resistance in WNV and SLEV

Lauren Mahoney (graduate student intern): May to September 2013
The College of Saint Rose, Department of Biochemistry
Project: The investigation of rhinovirus disease, including assessments of viremia and subtype associations, in hematology/oncology patients

Barbara Stewart (Post-doctoral fellow): September 2012 – June 2013
Wadsworth Center, EID Fellowship Program
Project: Development of a real-time assay for novel coronavirus and interrogation of archived respiratory samples for evidence of past infections with the virus

Elizabeth Libby (post-graduate fellow): September 2012 – May 2013
CDC, EID Fellowship Program
Project: Development of a real-time assay for HHV-7 and investigation of its role in CNS disease

Darwin Operario (Post-doctoral fellow): March 2008 – June 2010
BDEID Fellowship Program
Project: Development of mutation-specific quantitative assays for influenza drug resistance analysis and the study of drug resistance evolution in NYS

Mariam Zakalashvili (Post-doctoral Fogarty fellow from Georgia): October 2009 – July 2010

Wadsworth Center, Fogarty Fellowship Program

Project: Classical virology and molecular detection methods for influenza diagnosis and the analysis of drug resistance.

Patrick Bryant, (Post-doctoral CDC EID fellow): Jan 2009 – Apr 2009

Wadsworth Center, EID Fellowship Program

Project: Drug resistant influenza

Lisa Mingle (Post-doctoral CDC EID fellow): Sep 2007 – Feb 2008

Wadsworth Center, EID Fellowship Program

Project: Retrospective analysis of adenovirus for molecular Ad14 subtyping. Retrospective analysis of HSV type 1 for UL3 mutations.

Lela Dzigua (Fogarty fellow from Georgia): October 2007 – August 2008

Wadsworth Center, Fogarty Fellowship Program

Project: Molecular detection of respiratory and encephalitic viruses and the development of real-time and multiplexed real-time assays

Marika Karchava (Post-doctoral Fogarty fellow from Georgia): winter 2005-06

Wadsworth Center, Fogarty Fellowship Program

Project: Influenza detection and progeny viral production in mixed cell lines

Vladimir Zarubaev (Post-doctoral Fogarty fellow from Russia): fall 2004

Wadsworth Center, Fogarty Fellowship Program

Project: Assessment of drug resistant influenza strains

Ayana Brown (Undergraduate): summer, 2001

University of Pittsburgh, University Challenge for Excellence Programs, Undergraduate Research Intern

Project: Assessment of a mixed cell culture system for the rapid detection of adenoviruses

Erin Lord (Undergraduate): Spring Term, 1998

University of Pittsburgh, School of Health and Rehabilitation Sciences, Systems analysis practicum

Project: Investigation of a new cost analysis process for Clinical Virology Laboratory, UPMC

Daniel Bensimhon (Medical student): summer, 1995

University of Pittsburgh, School of Medicine, Summer Research program

Project: HSV antigen expression patterns

Ami Yezioro and James Boyd (Undergraduates): Spring Term, 1994

University of Pittsburgh, School of Health and Rehabilitation Sciences, Systems analysis practicum

Project: Feasibility analysis of merging the microbiology and virology processing laboratories

Dan Graciano (PhD candidate, Special Topics Course): summer, 1993

University of Pittsburgh, Department of Infectious Diseases and Microbiology, Graduate program,

Project: HHV-6 direct IF detection in peripheral blood leukocytes from transplant recipients

EXTRA-MURAL FUNDING

Current

- 2020-25 National Influenza Surveillance Reference Center Laboratory
CDC/APHL Contract
Oct 2020 - Jun 2025, Principal Investigator
- 2020-25 Viral Vaccine Preventable Diseases Reference Center Laboratory
CDC/APHL Contract
July 2020 - June 2025, Principal Investigator
- 2021-22: Epidemiology and Laboratory Capacity for Infectious Diseases, Influenza Surveillance Program
CDC Cooperative Agreement NU50CK000516.
Aug 2021 - July 2022, Co-investigator (Lab PI)
- 2021-22: Emerging Infections Program (EIP) Influenza Program
CDC/NCEZID, NCIRD, 1U50CK000199
1/1/22-12/31/22, Co-investigator (Lab PI)
- 2020-24: Epidemiology and Laboratory Capacity, Enhanced Detection, COVID studies
CDC, 6 NU50CK000516-01-15
Aug 2020 - July 2024, Co-investigator
- 2021-24: Epidemiology and Laboratory Capacity, Enhanced Detection, SARS-CoV-2 New York State Sequencing Consortium
CDC, 6 NU50CK000516-01-15
August 2021 - July 2024, Principal Investigator

Previous

Note - funding for last 10 years shown. Complete list available on request.

- 2020-21: Epidemiology and Laboratory Capacity for Infectious Diseases, Influenza Surveillance Program
CDC Cooperative Agreement NU50CK000516.
Co-investigator (Lab PI)
- 2020-21: Emerging Infections Program (EIP) Influenza Program
CDC/NCEZID, NCIRD, 1U50CK000199
1/1/21-12/31/21, Co-investigator (Lab PI)
- 2019-20 National Influenza Surveillance Reference Center Laboratory - year 5
CDC/APHL Contract
Oct 2017 - Jun 2018, Principal Investigator
- 2019-20 Viral Vaccine Preventable Reference Laboratory Phase 8

- CDC/APHL Contract
July 2017 – June 2018, Principal Investigator
- 2019-20: Epidemiology and Laboratory Capacity for Infectious Diseases, Influenza Surveillance Program
CDC Cooperative Agreement U50/CCU223671
Co-investigator (Lab PI)
- 2019-20: Epidemiology and Laboratory Capacity for Infectious Diseases, Vaccine Preventable Diseases
CDC Cooperative Agreement supplemental
Co-investigator (Lab PI)
- 2019 Influenza Antiviral Resistance Pilot
CDC/APHL Contract
Jan 2019-Dec 2019, Principal Investigator
- 2018-19 National Influenza Surveillance Reference Center Laboratory
CDC/APHL Contract
October 2017 - Jun 2018, Principal Investigator.
- 2018-19 Viral Vaccine Preventable Reference Laboratory Phase 7
CDC/APHL Contract
July 2017 – June 2018, Principal Investigator
- 2018-19: Epidemiology and Laboratory Capacity for Infectious Diseases, Influenza Surveillance Program
CDC Cooperative Agreement U50/CCU223671
Co-investigator (Lab PI)
- 2018-19: Epidemiology and Laboratory Capacity for Infectious Diseases, Zika Virus
CDC Cooperative Agreement
Co-investigator (Lab PI)
- 2018-19: Emerging Infections Program (EIP)
CDC/NCEZID, NCIRD, 1U50CK000199
1/1/14-12/31/14, Co-investigator (Lab PI)
- 2017-18 National Influenza Surveillance Reference Center Laboratory – year 3
CDC/APHL Contract
October 2017 - Jun 2018, Principal Investigator.
- 2017-18 Viral Vaccine Preventable Reference Laboratory Phase 6
CDC/APHL Contract
July 2017 – June 2018, Principal Investigator
- 2017-18 Diagnostic array for aseptic encephalitis
Corporate contract, Akonni Biosystems
April 2017 – Jan 2018, Principal investigator.

- 2012-17: Epidemiology and Laboratory Capacity for Infectious Diseases, Influenza Surveillance Program
CDC Cooperative Agreement U50/CCU223671
Co-investigator (Lab PI)
- 2016-20: Epidemiology and Laboratory Capacity for Infectious Diseases, Zika Virus
CDC Cooperative Agreement
Co-investigator (Lab PI)
- 2012-17: Emerging Infections Program (EIP)
CDC/NCEZID, NCIRD, 1U50CK000199
1/1/14-12/31/14, Co-investigator (Lab PI)
- 2016-17 National Influenza Surveillance Reference Center Laboratory – year 2
CDC/APHL Contract
October 2016 - Jun 2017, Principal Investigator.
- 2016-17 Viral Vaccine Preventable Reference Laboratory Phase 5
CDC/APHL Contract
July 2016 – June 2017, Principal Investigator
- 2016-17: Antiviral drug resistance in influenza Reference Laboratory
CDC/APHL contract
Oct 2015 to June 2016. Principal investigator.
- 2014 – 17 Diagnostic array for aseptic encephalitis
NIH/NIAID SBIR Phase 2 (2R44AI085650-02A-1)
Feb 2014 - Jan 2017, Co-investigator (Academic site PI)
- 2015-16: Antiviral drug resistance in influenza Reference Laboratory
CDC/APHL contract
Oct 2015 to June 2016. Principal investigator
- 2015-16 Viral Vaccine Preventable Reference Laboratory Phase 4
CDC/APHL Contract
July 1 – June 2016, Principal Investigator
- 2015-16 National Influenza Surveillance Reference Center Laboratory – year 1
CDC/APHL Contract
Oct 2015 - Jun 2016, Principal Investigator.
- 2014-15 Viral Vaccine Preventable Reference Laboratory Phase 3
CDC/APHL Contract
Oct 2014 – June 2015, Principal Investigator
- 2014-15: Antiviral drug resistance in influenza Reference Laboratory
CDC/APHL contract
Dec 2014 to June 2015. Principal investigator

- 2014-15 Phase 3 Clinical Evaluation of the ViiA7 System for Non-Influenza Respiratory Virus Assays
CDC APHL Contract
Aug 2014 to June 2015, Principal Investigator
- 2013 – 15 Clinical and molecular epidemiology of human rhinoviruses in patients with hematologic malignancy and hematopoietic stem cell transplant recipients
Weill Cornell Contract
May 2013 to April 2015, Principal investigator
- 2007-14: Prevalence & Pathogenesis of Pulmonary Disease in a Large Multicenter HIV Cohort
NIH RO1 5902236.
Co-investigator
- 2014 Evaluation of the Use of Alternative Data Sources for Influenza Virologic Surveillance
CDC/APHL Contract
Jan to June 2014, Principal Investigator
- 2013-14 Viral Vaccine Preventable Reference Laboratory Phase 2
CDC/APHL Contract
Oct 2013 – June 2014, Principal Investigator
- 2013-14: Surge support for antiviral drug resistance testing in influenza
CDC/APHL contract
Dec 2013 to June 2014. Principal investigator
- 2013 Whole Genome Sequencing of Human Influenza A and B Viruses from “Gap Years” in New York State
NIH/JCVI
May 2013 to March 2014. Principal Investigator
- 2013 Evaluation of the Applied Biosystems ViiA™ 7 System for Non-Influenza Respiratory Virus Assays: Phase 2
CDC/APHL Contract
Aug 2013 – Nov 2013, Principal Investigator
- 2012-13 Akonni Encephalitis and Influenza Array Development
Private industry contract
Oct 2012 – Oct 2013, Principal Investigator
- 2012 -13 Specimen Pooling for Influenza Real-Time RT-PCR Assays Part 2: Evaluation of Specimen Pooling in a prospective clinical trial
CDC/APHL Contract
Sep 2012 – June 2013, Principal Investigator
- 2012-13 Viral Vaccine Preventable Reference Laboratory
CDC/APHL Contract
Oct 2012 – Sep 2013, Principal Investigator

- 2012-13: Surge support for antiviral drug resistance testing in influenza
CDC/APHL contract
Dec 2012 to June 2013. Principal investigator
- 2012-13 Respiratory Panel Flow-Strip: a Point-of-Care Molecular Diagnostic Test
NIH grant Subcontract 1R43AI096592-01A1
Oct 2012 – Jan 2013, Principal Investigator
- 2011 – 12 Influenza enhanced capacity surveillance
CDC PPACA – ELC
Oct 2010 to Sep 2012. Co-investigator (Lab PI)
- 2010 – 12 Enhanced infrastructure for emerging infectious programs
CDC –EIP
Jan 1, 2012 to Dec 31, 2012. Co-investigator (Lab PI)
- 2012 Specimen Pooling for Influenza Real-Time RT-PCR Assays Part 1: bioMérieux NucliSENS
easyMAG Protocol Development
CDC/APHL Contract
April to June, 2012, Principal Investigator
- 2012 Evaluation of the Applied Biosystems ViiA™ 7 System for Non-Influenza Respiratory Virus
Assays
CDC/APHL Contract
May to June, 2012, Principal Investigator
- 2009 – 12 Diagnostic Influenza RT-PCR array
NIH/NIAID SBIR Phase 2, 2R44AI072784-02A1
Aug 2009 to Sep 2012. Co-investigator (Academic site PI)
- 2011-12 Diagnostic array for aseptic encephalitis
NIH/NIAID SBIR Phase 1, 1R43AI085650-01A1
July 2011 to Aug 2012. Co-investigator (Academic site PI)
- 2011-12: Surge support for antiviral drug resistance testing in influenza
CDC/APHL contract
Oct 2011 to June 30, 2012. Principal investigator

PUBLICATIONS

Book chapters and reviews

Note: Last 10 years shown – full list (22 total) available upon request.

St. George K (2012): Diagnosis of influenza virus. In: *Influenza Virus: Methods and Protocols*, Methods in Molecular Biology, vol. 865: 53-69, Kawaoka Y and Neumann G (eds), Springer Science and Business Media, Humana Press

Jacobs SE, Lamson DM, **St. George K**, Walsh TJ (2013): The Human Rhinoviruses. *Clin Microbiol Rev* 26: 135-162.

Laplante J and **St. George K** (2014): Antiviral Resistance in Influenza Viruses: Laboratory Testing. *Clinics in Laboratory Medicine* 34: 387-408.

St. George K (2016): Laboratory Diagnosis of Viral Infections. In: *Clinical Microbiology Procedures Handbook*, 4th Edition, Leber A (Ed) ASM Press, Washington DC.

St. George K (2016): Selection, Maintenance, and Observation of Uninoculated Monolayer Cell cultures. In: *Clinical Microbiology Procedures Handbook*, 4th Edition, Leber A (Ed) ASM Press, Washington DC.

St. George K (2016): Cell Culture Techniques: Serial Propagation and Maintenance of Monolayer Cell Cultures. In: *Clinical Microbiology Procedures Handbook*, 4th Edition, Leber A (Ed) ASM Press, Washington DC.

St. George K (2016): Specimen Collection and Processing. In: *Clinical Microbiology Procedures Handbook*, 4th Edition, Leber A (Ed) ASM Press, Washington DC.

St. George K (2016): Viral Culture: Isolation of Viruses in Cell Cultures. In: *Clinical Microbiology Procedures Handbook*, 4th Edition, Leber A (Ed) ASM Press, Washington DC.

St. George K (2016): Direct Detection of Viruses and *Chlamydia* in Clinical Samples. In: *Clinical Microbiology Procedures Handbook*, 4th Edition, Leber A (Ed) ASM Press, Washington DC.

St. George K and Pinsky BA (2018): Molecular diagnosis of Zika virus infections. *Reviews in Medical Microbiology*. 29: 8-16.

Green DA and **St. George K** (2018): Rapid Antigen Tests for Influenza: Rationale and Significance of the FDA Reclassification. *J Clin Microbiol*. 56: 11-18.

Kajon AE, Lamson DM and **St. George K** (2019): Emergence and re-emergence of respiratory adenoviruses in the United States. *Current Opinion in Virology*. 34: 63-69.

Escuyer KL, Fuschino M, and **St. George K** (2019): New York State Emergency Preparedness and Response to Influenza Pandemics 1918-2018. *Trop Med Infect Dis* 4: pii: E132. doi: 10.3390/tropicalmed4040132.

Patel R, Babady E, Theel ES, Storch GA, Pinsky BA, **St. George K**, Smith TC and Bertuzzi S (2020): Report from the American Society for Microbiology COVID-19 International Summit, 23 March 2020: Value of Diagnostic Testing for SARS-CoV-2/COVID-19. *mBio* DOI: 10.1128/mBio.00722-20

Bryant PW, Caldwell HS, Lamson DM, **St. George K** (2022): Mumps Virus Sequencing Methods for High-Resolution Outbreak Analysis. *Clinical Laboratory International*. Feb/Mar 2022: 22-25

Kajon AE and **St. George K** (2022): Mysterious Cases of Acute Hepatitis in Children: is adenovirus still a lead suspect? *Emerging Microbes and Infection* (In press)

Peer-reviewed manuscripts

Note: Last 10 years only – full list (135 total) available upon request

Stramer SL, Collins C, Nugent T, Wang X, Fuschino M, Heitman JW, Law J, Krysztof DE, Todd D, Vermeulen NMJ, Harrington K, Kelvin DJ, Busch MP, **St. George K**, Hewlett IK, Linnen JM, and Norris PJ for the NHLBI Retrovirus Epidemiology Donor Study-II (REDS-II) (2012): Sensitive detection assays for influenza RNA do not reveal viremia in US blood donors. *JID* 205: 886-94.

Storms AD, Gubareva LV, Su S, Wheeling JT, Okomo-Adhiambo M, Pan C-Y, Reisdorf E, **St. George K**, Myers R, Wotton JT, Robinson S, Leader B, Thompson M, Shannon M, Klimov A, Fry AM, for the U.S. Antiviral Resistance Surveillance Working Group (2012): Oseltamivir-Resistant Pandemic (H1N1) 2009 Virus Infections, United States, 2010–2011. *Emerg Infect Dis* 18: 308-311.

Lamson DM, Griesemer S, Fuschino M, **St. George K** (2012): Phylogenetic analysis of human metapneumovirus from New York State patients during February through April of 2010. *J Clin Virol* 53: 256-8.

Fuschino ME, Lamson DM, Rush-Wilson K, Carbone LS, Taff ML, Hua Z, Landi K, **St. George K** (2012): Detection of Coxsackievirus A10 in multiple tissues of a fatal infant sepsis cases. *J Clin Virol* 53: 259-61.

Battaglioli G, Nazarian EJ, Lamson D, Musser KA, **St. George K** (2012): Evaluation of the RIDAQuick Norovirus Immunochromatographic Test Kit. *J Clin Virol* 53: 262-4.

Chandler DP, Griesemer SB, Cooney CG, Holmberg R, Thakore N, Mokhiber B, Belgrader P, Knickerbocker C, Schied J, **St. George K** (2012): Rapid, simple influenza RNA extraction from nasopharyngeal samples. *J Virol Meth.* 183: 8-13.

Popowich MD, Brunt SJ, Bennett RT, **St. George K** (2012): Development of a proficiency testing program for molecular diagnosis of influenza viruses. *J. Clin. Virol.* 54: 245-50.

Chandler DP, Bryant L, Griesemer SB, Gui R, Knickerbocker C, Kukhtin A, Parker J, Zimmerman C, **St. George K**, Cooney CG (2012): Integrated Amplification Microarrays for Infectious Disease Diagnostics. *Microarrays* 1:107-124.

El Khoury MY, Hull R, Bryant PW, Escuyer KL, **St. George K**, Wong S, Nagaraja A, Kramer L, Dupuis AP, Purohit T, Shah T, Wormser GP (2013): Diagnosis of Acute Deer Tick Virus Encephalitis. *Clin Infect Dis* 56: e40-7.

Ginocchio C, Lotlikar M, Li X, Elsayed H, Teng Y, Dougherty P, Kuhles D, Chaturvedi S, **St. George K** (2013): Identification of Endogenous *Coccidioides posadasii* Contamination of Commercial Primary Rhesus Monkey Kidney Cells. *J Clin Microbiol* 51: 1288-1290.

Nguyen NL, Zhao G, Hull R, Shelly MA, Wong SJ, Wu G, **St. George K**, Wang D, Menegus MA (2013): Cache Valley virus in a patient diagnosed with aseptic meningitis. *J Clin Microbiol* 51: 1966-1969

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Lasek-Nesselquist E, Lapierre P, Schneider E, **St. George K**, Pata J (2021): The localized rise of a B.1.526 variant containing an E484K mutation in New York State. (MEDRXIV/2021/251868)

Lasek-Nesselquist E, Pata J, Schneider E, **St. George K** (2021): A tale of three SARS-CoV-2 variants with independently acquired P681H mutations in New York State. (MEDRXIV/2021/253285)

INVITED PRESENTATIONS

(Conferences, seminars, invited guest lectures)

Note: Last 10 years only – full list (93 total) available upon request

St. George K and Shulte C (2012): Measles: improved testing methods for an ongoing outbreak threat. Laboratory Epidemiology Seminar. Wadsworth Center, May 7.

St. George K (2012): General Virology Service at New York State. Laboratory Medicine Grand Rounds, Memorial Sloane Kettering Cancer Center, June 5.

St. George K, Lamson DM, Ramani R, Quinn M, Newman A, Whitehouse J, Greenko J, Adams E, Kajon A (2012): Molecular Characterization of Adenoviruses from Four Outbreaks of Keratoconjunctivitis in New York State in Early 2012. Association for Molecular Pathology Annual Meeting on Genomic Medicine, October 25-27, Long Beach, CA.

Malloy K and **St. George K** (2012): Influenza Surveillance and Laboratory Testing in New York State. State-wide Webinar, Bureau of Immunization's Immunization Update webinar series, December 13.

St. George K (2013): Applications of next gen sequencing in virology. Workshop presentation. 29th Annual Clinical Virology Symposium, Apr 22-25, Daytona Beach, Florida.

St. George K (2013): Advisory panel meeting on the reclassification of rapid influenza detection devices. Invited guest speaker. Microbiology Devices Panel of the Medical Devices Advisory Committee, FDA. June 13.

St. George K and Maxted A (2013): Lessons learned from H1N1 and SARS: parallels to H7N9 and MERS-CoV. Lunch and Learn Noon Webinar Series, Office of Health Emergency Preparedness, New York State Department of Health, September 25.

St. George K (2014): Cooperation between Clinical and Public Health Laboratories. 30th Annual Clinical Virology Symposium, Apr 27-30, Daytona Beach, Florida.

St. George K (2014): MERS-CoV: Situational Update and Laboratory Testing. Association for Molecular Pathology Webinar, June 13.

St. George K (2014): Ebola: Laboratory Testing. Lab/epi seminar. October 6, Wadsworth Center, Albany.

St. George K (2014): Enterovirus-D68. ASM Annual Regional Meeting, October 15, Albany, NY.

St. George K (2014): Ebola: outbreak, laboratory testing and the NYS/NYC guidelines. ASM Annual Regional Meeting, October 15, Albany, NY.

St. George K (2014): Ebola: the virus, the outbreak, the response. Friday Forum, School of Pharmacy, University at Albany, SUNY, November 21, Albany, NY.

St. George K (2014): Panel moderator. Panel Discussion: Prevention and Extermination of the Global Ebola Outbreak, December 3, Global Institute for Health and Human Rights, University at Albany, SUNY, Albany, NY

St. George K (2015): The Enterovirus D68 Outbreak and Associated Laboratory Testing. APHL Webinar, January 27.

St. George K (2015): Enterovirus D68. SPEED Rounds, NYSDOH, Albany, NY, March 12

St. George K (2015): Enterovirus D68 respiratory disease and the 2015 outbreak. Laboratory of Clinical Microbiology Seminar, Wadsworth Center, Albany, NY, March 20.

St. George K (2015): Influenza Testing at Clinical and Commercial Laboratories. APHL Influenza Right Size Regional Workshop, Providence, RI, Mar 30-Apr 1.

St. George K and Waters C (2015): The NYS outbreak of EV-D68 in 2014. Laboratory/Epidemiology Seminar, Wadsworth Center, Albany, NY, April 6.

St. George K (2015): Experiences with Virology Applications of Next Generation Sequencing. ASM Regional Meeting, Jacksonville, FL, May 5.

St. George K (2015): Recent emerging viral pathogens. ASM Regional Meeting, Jacksonville, FL, May 5.

St. George K (2015): Laboratory testing for EV-D68. ASM Regional Meeting, NYC, NY, May 8.

Laplante J and **St. George K** (2015): Next generation sequencing for non-influenza respiratory viruses. APHL Annual Meeting, Indianapolis, IN. May 17-21.

St. George K (2015): Arbovirus attack. WNY Regional ASM Meeting. Buffalo NY, October 27.

St. George K (2015): Research methods in virology. Department of Biology, Sage College. Albany NY, November 2.

St. George K (2016): The Challenges of Laboratory Testing for Zika Virus Infection. Invited speaker, Zika Virus Symposium, Microbe 2016 (Joint annual meeting, American Society for Microbiology and Interscience Conference for Antimicrobial Agents and Chemotherapy). June 16-20, Boston, MA.

Teperman L, **St. George K** and Michaels M (2016): Zika Virus: An Update on Transplant Associated Concerns. Zika Virus Webinar Series, NYSDOH, September 22, Albany, NY.

St. George K (2016): Dry, rapid or massive: new assays and platforms developed in response to the Zika virus outbreak. LCM Seminar. Wadsworth Center, October 14, Albany, NY.

St. George K (2017): Recent advances and applications of NGS in Virology for public health. Wadsworth Mini-Symposium. February 8, Albany, NY.

St. George K (2017): Next generation sequencing applications in Virology. Molecular Virology Workshop, May 6, Savannah, GE.

St. George K (2017): FDA's RIDT Reclassification: Overview and Update, Influenza Surveillance Workshop, APHL Annual Meeting, June 10, Providence, RI.

St. George K (2017): Recent mumps outbreaks in NYS: enhanced analysis with NGS and protein molecular modeling. Western NY ASM Summer Seminar Series, August 11, Buffalo, NY.

St. George K (2017): Comparison of Next Gen/Whole Genome Sequencing of Mumps with Sequence Independent Single Primer Amplification (SISPA) and AmpliSeq. AMD Day, September 25, CDC, Atlanta, GE.

St. George K (2018): Where should clinical virology testing be done? Invited speaker and Panel Convener, 34th Annual Clinical Virology Symposium, May 6-9, West Palm Beach, FL.

St. George K (2018): So, you think this season was bad? How prepared are we for a severe influenza pandemic?" Annual Spring Meeting, New York City Branch, American Society for Microbiology, May 18, New York, NY.

St. George K (2018): The role of next generation sequencing for influenza surveillance and research. APHL Influenza Workshop, June 1, Pasadena, CA.

St. George K (2018): Presentation: Enhanced analysis of mumps outbreaks with next generation/whole genome sequence analysis. Session Convener: The Evolving Analysis of Vaccine Preventable Outbreaks and Their Causative Agents, Annual Meeting, Association of Public Health Laboratories, June 2-5, Pasadena, CA.

St. George K (2019): Applications of next generation sequencing for public health virology. Inaugural Mary Joaquina Martins Annual Lecture, 70th Annual Institute, California Association of Public Health Laboratory Directors, October 28-30, San Diego, CA

St. George K (2020): Panelist. ASM COVID-19 International Summit. Virtual Meeting. March 23, 2020

St. George K (2020): Development, implementation and regulation of pandemic response at the state level – New York perspective. Diagnostic Landscape for COVID-19 Virtual Meeting. June 18, 2020.

St. George K (2020): Ongoing challenges with diagnostics. Session facilitator and leader. Diagnostic Landscape for COVID-19 Virtual Meeting. June 18, 2020.

St. George K (2020): Panelist. ASM Microbe Online: Diagnostics COVID-19 Live After Chat. July 21, 2020

St. George K (2020): Enhanced analysis of mumps, measles and SARS-CoV-2 with NGS. APHL Virtual Annual Meeting 2020. September 22, 2020.

St. George K and Crumpler M (2020): Singleplex vs. Multiplex / Suppressing Results from Multiplex Assays. Discussion facilitator. APHL Influenza Surveillance Town Hall. October 14, 2020.

St. George K (2020): Alternative career paths. Scientista. Graduate Webinar Panel Speaker. October 21, 2020 SUNY

St. George K (2020): Spits, swabs, surge, studies and sequence: 9 months of COVID-19 response and still going. Invited virtual seminar, RNA Institute, Albany NY, December 15, 2020.

St. George K (2020): Pandemic Preparedness: The role of public health laboratories in pandemic preparedness and response. AACC. December 14, 2020

St. George K (2021): Speaker: University of Pittsburgh Advising and Mentoring Summit Alumni Panel. March 11, 2021

PUBLISHED ABSTRACTS AND PROFFERED PAPERS

Note: Last 10 years only – full list (173 total) available upon request

Hull R, Bryant PW, El Khoury MY, Escuyer KL, Wang H, **St. George K** (2012): Molecular detection of Powassan Virus in CSF from a 2010 fatal encephalitis case. 28th Annual Clinical Virology Symposium, Apr 22-25, Daytona Beach, Florida.

Lamson DM, Dean A, Rosenthal M¹, Kleiboeker S², **St. George K** (2012): Circulating genotypes of human parvovirus B19 in the United States. 28th Annual Clinical Virology Symposium, Apr 22-25, Daytona Beach, Florida.

Popowich M, Wang H, Hull R, Lamson D, **St. George K** (2012): A multiyear study of human parechovirus and validation of a new real-time PCR assay. 28th Annual Clinical Virology Symposium, Apr 22-25, Daytona Beach, Florida.

Dean AB and **St. George K** (2012): Herpes simplex virus-type 1 strain discrimination. American Society for Microbiology Annual General Meeting, June 16-19, San Francisco.

Dean A and **St. George K** (2012): Herpes simplex virus type 1 discrimination and evolutionary linkage. International Herpesvirus Workshop, August 4-9, Calgary, Canada.

St. George K, Lamson DM, Ramani R, Quinn M, Newman A, Whitehouse J, Greenko J, Adams E, Kajon A (2012): Molecular Characterization of Adenoviruses from Four Outbreaks of Keratoconjunctivitis in New York State in Early 2012. Association for Molecular Pathology Annual Meeting on Genomic Medicine, October 25-27, Long Beach, CA.

Kajon AE, Lamson DM, Shudt M, Oikonomopoulou Z, Fisher B, Klieger S, **St. George K** and Hodinka HL (2013): Identification of a Novel Intertypic Recombinant Species D Human Adenovirus in a Pediatric Stem Cell Transplant Patient. 29th Annual Clinical Virology Symposium, Apr 22-25, Daytona Beach, Florida.

Lamson DM, Shudt M, Rosenthal M, Bryant P, Ramani R, Quinn M, Newman A, Whitehouse J, Greenko J, Adams E, Kajon A, **St. George K** (2013): Molecular Characterization Including Whole Genome Sequencing of Adenoviruses from Multiple Outbreaks of Keratoconjunctivitis. 29th Annual Clinical Virology Symposium, Apr 22-25, Daytona Beach, Florida.

Laplante J, Babady E, Clement E, Many P, Stiles J, Lutterloh EC, Tang YW, **St. George K** (2013): Influenza Neuraminidase Mutations in A/H3N2 Viruses during the 2011-2012 and 2012-2013 Seasons. 29th Annual Clinical Virology Symposium, Apr 22-25, Daytona Beach, Florida.

Popowich M, Lamson DM, Fuschino M, Dean A, **St. George K** (2013): Evaluation of Eleven Non-Influenza Respiratory Virus Assays on the Applied Biosystems ViiA[™] 7 Real-Time PCR System. 29th Annual Clinical Virology Symposium, Apr 22-25, Daytona Beach, Florida.

Lamson DM, Shudt M, Rosenthal M, Bryant P, Kajon A, **St. George K** (2013): Molecular Characterization of Adenovirus by Next Generation Whole Genome Sequencing. 29th Annual Clinical Virology Symposium, Apr 22-25, Daytona Beach, Florida.

Chester S, Burke S, Schwerzmann J, Harvey J, Aden T, Sciulli R, DesJardin L, Smole S, **St. George K**, Perez-Osorio A, Reisdorf E, Whitaker B, Wroblewski K, Mawle A. (2013): Establishing Performance Characteristics of Non-Influenza Viral Respiratory Pathogen Assays at Public Health Laboratories. 29th Annual Clinical Virology Symposium, Apr 22-25, Daytona Beach, Florida.

Libby EG, Lamson DM, **St. George K** (2013): Investigation of Human Herpes Virus 7 in Cerebrospinal Fluid. 29th Annual Clinical Virology Symposium, Apr 22-25, Daytona Beach, Florida.

Brunt SJ, Lamson DM, Fuschino ME, Dean AB, Muir-Paulik S, Wroblewski K, Aden T, Miller JD, Schwerzmann JW, and **St. George K** (2013): Feasibility of Respiratory Sample Pooling for easyMAG Extraction and Influenza Detection. Association of Public Health Laboratories Annual Meeting, June 2-5, Raleigh, NC.

Levine M, Sleeman K, Mishin V, Okomo-Adhiambo M, Abd Elal A, Chesnokov A, Miller J, Jernigan D, Klimov A, **St. George K**, Muir-Paulik S, Aden T, Villanueva J, and Gubareva L. (2013): Detection of Drug Resistance in Influenza Using the Pyrosequencing Assay. Association of Public Health Laboratories Annual Meeting, June 2-5, Raleigh, NC.

Chester S, Burke S, Schwerzmann J, Aden T, Sciulli R, DesJardin L, Smole S, **St. George K**, Leader B, Reisdorf E, Erdman D, Tatti K, Winchell J, Beall B, Mayer L, Pawloski L, Wroblewski K, Mawle A (2013): Establishing Performance Characteristics of Bacterial and Viral Respiratory Pathogen Assays at Public Health Laboratories. Association of Public Health Laboratories Annual Meeting, June 2-5, Raleigh, NC.

Jacobs S, Lamson DM, Soave R, Shore TB, Ritchie EK, Satlin M, Zappetti D, Schuetz AN, Jenkins SG, **St. George K**, Walsh T (2013): Human Rhinovirus Infections in Patients with Hematologic Malignancy in the Greater New York City Area: An Interim Clinical and Molecular Epidemiologic Analysis, IDWeek 2013, October 2-6, San Francisco, CA.

Popowich M, Halse T, Quinlan T, Lamson D, Chester S, Gose R, Sciulli R, Bai J, DesJardin L, Hall J, Smole S, Li Z, Perez-Osorio A, Russell D, Whyte T, **St. George K**, Mawle A, Harvey J (2014): Evaluation of a Taqman array card for the detection of 22 respiratory pathogens on the ABI ViiA7[™] real-time PCR system. 30th Annual Clinical Virology Symposium, Apr 27-30, Daytona Beach, Florida.

Lamson DM, Jacobs SE, Walsh TJ and **St. George K** (2014): Molecular analysis of human rhinovirus strains circulating in patients with hematological malignancies. 30th Annual Clinical Virology Symposium, Apr 27-30, Daytona Beach, Florida.

Harvey J, Chester S, Burke S, Ansbros M, Aden T, Gose R, Sciulli R, Bai J, Des Jardin L, Hall J, Smole S, Popowich M, **St. George K**, Li Z, Perez-Osorio A, Russell D, Whyte T, Erdman D, Hatcher C, Srinivasan V, Tatti K, Tondella ML, Wang X, Winchell J, Jernigan D and Mawle A (2014): Analytical Evaluation of ViiA™ 7 TAC Card for Detection of Respiratory Pathogens. ASM 114th General Meeting, May 17-20, Boston MA.

Harvey J, Chester S, Burke S, Ansbros M, Aden T, Gose R, Sciulli R, Bai J, Des Jardin L, Hall J, Smole S, Popowich M, **St. George K**, Li Z, Perez-Osorio A, Russell D, Whyte T, Erdman D, Hatcher C, Srinivasan V, Tatti K, Tondella ML, Wang X, Winchell J, Jernigan D and Mawle A (2014): Analytical Evaluation of ViiA™ 7 TAC Card for Detection of Respiratory Pathogens. APHL Annual Meeting, June 1-4, Little Rock, Arkansas.

Vail E, Nolan N, Savitt J, Bush J, Yoon EC, Lamson DM, **St. George K**, Fallon JT and G. Wang (2015): Characteristics of Respiratory Illness Associated with an Outbreak of Enterovirus D68 Infection in the Lower Hudson Valley, New York, 2014. USCAP Annual Meeting, March 21- 27, 2015, Boston, MA.

Cerone JR, Santos RP, Tristram D, Lamson DM, Stellrecht K, **St. George K**, Horgan MJ, Rios A (2015): Respiratory Viral Infection in Infants Undergoing Sepsis Evaluation in the Neonatal Intensive Care Unit. Abstract #752807. Pediatric Academic Societies Annual Meeting, April 25-28, 2015, San Diego, CA.

Nix A, Maher K, Chern S-W, Zhang Y, Lamson D, Jost H, Sun H, Henderson B, Rogers S, **St. George K**, Oberste S (2015): 2014 Enterovirus D-68-Specific Real-Time RT-PCR Assay Development and Validation. 31ST Annual Clinical Virology Symposium, Apr 26-29, Daytona Beach, FL.

Sun Y, Parikh C, Jackson S, Lamson D, **St. George K**, Felton A (2015): A next generation sequencing method for the pan-identification of viral pathogens in CSF from encephalitis cases. 31ST Annual Clinical Virology Symposium, Apr 26-29, Daytona Beach, FL.

Rogers S, Brown B, Nix A, Penaranda S, Lamson D, Chern S-W, Liu H-M, Yang S-J, Dybdahl-Sissoko N, Jost H, Vincent A, Maher K, Henderson B, **St. George K**, Oberste S (2015): Molecular Epidemiology of Enterovirus D68 Associated with a Nationwide Outbreak of Severe Respiratory Illness, United States, 2014. 31ST Annual Clinical Virology Symposium, Apr 26-29, Daytona Beach, FL.

McGinnis J, Laplante J, **St. George K** (2015): Development of a PCR and next generation sequencing assay for whole genome analysis of influenza A/H1pdm09 and A/H3 viruses. 31ST Annual Clinical Virology Symposium, Apr 26-29, Daytona Beach, FL.

Lamson DM, Zhou YC, Popowich M, Fuschino M, **St. George K** (2015): Comparison of Multiple Enterovirus Methods for the Detection of Enterovirus D68. 31ST Annual Clinical Virology Symposium, Apr 26-29, Daytona Beach, FL.

Rota P, McNall R, Anderson R, Lopareva E, Rota J, Hickman C, Redd S, Wallace G, Bellini W and the Vaccine Preventable Diseases Reference Centers. (2015): Molecular Epidemiology of Measles and Mumps Viruses Detected in the US during 2014. 31ST Annual Clinical Virology Symposium, Apr 26-29, Daytona Beach, FL.

Zeng L, Dean A, **St. George K** (2015): A One-Step, Real-Time RT-PCR Assay for the Detection of Chikungunya virus in Patient Samples. 31ST Annual Clinical Virology Symposium, Apr 26-29, Daytona Beach, FL.

Lamson D, Shudt M, **St. George K**, Kajon A (2015): Next Generation Sequencing of Adenovirus and Their Adeno-Associated Viruses Co-Isolated from Respiratory Specimens. 31ST Annual Clinical Virology Symposium, Apr 26-29, Daytona Beach, FL.

Lawani MB, Fitzpatrick M, Lucht L, Camp D, Kessinger C, Klerup E, Dermand J, Greenblatt RM, Fong S, Stone S, Huang L, Kingsley L, Lamson D, **St. George K**, Morris A (2015): Association between Pulmonary Microbial Colonization in HIV and Lung Function Impairment. American Thoracic Society, May 15-20, Denver, CO.

Laplante J, McGinnis J, **St. George K** (2015): Whole Genome Analysis of Influenza A/H1pdmo9 and A/H3 Viruses Using Next Generation Sequencing. Abstract # P74, APHL Annual Meeting, May 18-21, Indianapolis, IN.

Fuschino M, Dean A, Flood C, Rusinko D, Laplante J, Dopp JA, Ramani R, Brunt S, Church T, **St. George K** (2015): Re-design of a Virology Laboratory's Outdated Ordering and Inventory Process Using LEAN Tools. Abstract # P75. APHL Annual Meeting, May 18-21, Indianapolis, IN.

Nguyen HT, De La Cruz J, Mishin VP, Abd Elal A, Okomo-Adhiambo M, Laplante J, Barnes, J, Garten R, Jang Y, Stevens J, **St. George K**, Chester S, Xu X, Fry AM, Villanueva JM, Gubareva LV (2015): Drug Susceptibility of Influenza A(H1N1)pdmo9 Viruses in the Americas, 2009-2014. 4th Conference of the International Society for Influenza and Other Respiratory Virus Diseases (ISIRV) – Antiviral Group, June 2-4, Austin TX.

Laplante J, Brunt S, McGinnis M, **St. George K** (2015): Evolution of Resistance Surveillance In New York State: The Past 5 Years. 4th ISIRV Antiviral Group Conference, Austin, TX, June 2-4.

Chommanard C, Lu X, Christensen J, Palm J, Wadford D, Chen A, Schnurr D, Farrell G, **St. George K**, Iwane M, Erdman D, Gerber SI (2015): The National Adenovirus Type Reporting System (NATRS): A New Surveillance System. CSTE Annual Conference, June 14-18, Boston, MA.

Pradhan E, McGuire SM, Spina N, Fuschino M, **St. George K**, Zansky SM (2015): Use of Rapid Influenza Diagnostic Tests: Impact on treatment and health outcomes of hospitalized influenza cases. ICEID, August 2015, Atlanta, GE.

Sun Y, Parikh C, Ku Y-C, Lamson D, Au-Young J, **St. George K**, Felton A (2015): A next generation sequencing method for the pan-identification of viral pathogens in CSF from encephalitis cases. 1st ASM Conference on Next-Generation Sequencing and Bioinformatic Pipelines for Enhanced Molecular Epidemiologic Investigation of Pathogens. Sept 24-27, Washington DC.

Lamson DM, Laplante J, McGinnis J, Shudt M, Kajon A, **St. George K** (2015): Methods, Applications and Experiences with Next Generation Whole Genome Sequencing in Public Health Virology. 1st ASM Conference on Next-Generation Sequencing and Bioinformatic Pipelines for Enhanced Molecular Epidemiologic Investigation of Pathogens. Sept 24-27, Washington DC.

Holmes L, **St. George K**, Faden H, Burg M, Berti R, Lamson D, Lehman H (2015): Retrospective Study on Patients Presenting with Wheezing and Enterovirus D68 Infection. AAP National Conference, Oct 23-27, Washington DC.

Kajon A, Lamson D, Bair C, Landry M, Menegus M, Lu X, Erdman DD, **St. George K** (2016): Adenovirus type 4 respiratory infections among civilians in the northeast United States: documentation of recent activity of an underestimated pathogen. XVIII International Symposium on Respiratory Viral Infections. March 31 – April 2, Lisbon, Portugal.

Shaw J, Halsey NA, Weinberg A, Schmid DS, **St. George K**, Weldon WC, Jordan M, Bryant PW, LaRussa PS, Bradshaw DY, Harrington T, Gershon A (2016): Arm paralysis following varicella and hepatitis A vaccinations during a community-wide outbreak of enterovirus-D68: a complex evaluation of a reported adverse event following immunization. 34th Annual Meeting, European Society for Pediatric Infectious Diseases, May 10-14, Brighton, UK.

Popowich M, Lamson D, Boolchandani H, **St. George K** (2016): Investigation of influenza negative samples from primary care and hospitalized patients with influenza-like-illness, using a respiratory Taqman Array Card. 32nd Annual Clinical Virology Symposium, May 19-22, Daytona Beach, FL.

Lamson DM, Shudt M, **St. George K**, Kajon AE (2016): Genetic characterization of a human adenovirus 14 strain detected in college students in New York State during the 2014-15 influenza season. 32nd Annual Clinical Virology Symposium, May 19-22, Daytona Beach, FL.

Adamczyk M, Mishin V, De La Cruz JA, Chesnokov A, Hodges E, Abd Elal A, Laplante J, **St. George K**, Warren M, Fry AM, Wentworth D, Gubareva L (2016): Pyrosequencing Assay for Oseltamivir Resistance Detection: Use in Surveillance and Clinical Care. 32nd Annual Clinical Virology Symposium, May 19-22, Daytona Beach, FL.

Kajon AE, Lamson D, Hodinka R, Fisher B, **St. George K** (2016): Characterization of a novel intertypic recombinant human adenovirus of species HAdV-B isolated from urine and stool specimens of a pediatric stem cell transplant recipient. 32nd Annual Clinical Virology Symposium, May 19-22, Daytona Beach, FL.

Bryant PW and **St. George K** (2016): Two Recent Cases of Congenital Rubella in New York State. 32nd Annual Clinical Virology Symposium, May 19-22, Daytona Beach, FL.

Lamson DM, Berkman JM, Wang JT, Stevens JF, **St. George K** (2016): Multiplex detection of Zika, Dengue and Chikungunya with room temperature stable lyophilized reagents. 32nd Annual Clinical Virology Symposium, May 19-22, Daytona Beach, FL.

Chommanard C, Lu X, Christensen J, Palm J, Vu M, Pan C, Chen A, Wadford D, Lamson D, Farrell G, **St. George K**, Moffitt A, Kopp E, Cone M, Myers C, Brice G, Hawksworth A, Fitzpatrick K, Fowler N, Erdman D, Gerber SI for the NATRS working group (2016): National Adenovirus Type Reporting System (NATRS) Surveillance, 2013-2015. CSTE Annual Conference, June 19-23, Anchorage, AK.

Pradhan E, McGuire S, Spina N, Perez P, Rowlands JV, Farrell G, **St. George K**, Zansky S (2016): Use of Rapid Influenza Diagnostic Tests: Impact on Treatment of Hospitalized Influenza Cases, New York – 2012-2015. IDSA

Spencer S, Nguyen H, Gubareva L, Abd Elal A, Fry A (2016): Surveillance for oseltamivir-resistant influenza A (H1N1) pdm09 virus infections during 2015-2016, United States. ID Week Oct 26-30 New Orleans, LA

Caldwell HS, Bryant P, Lamson D, **St. George K** (2017): Whole Genome Sequencing of Mumps Using Sequence Independent Single Primer Amplification (SISPA) for Improved Outbreak Tracing and Epitope Mapping. 33rd Annual Clinical Virology Symposium, May 7-10, Savannah, GE.

McNall RJ, Wharton AK, Anderson R, Lopareva EN, Gonzalez C, Threewitt C, Hacker J, Xia D, Liu G, Boxrud D, Bryant P, **St. George K**, Davis T, Griesser RH, Shult P, Clemmons N, Bankamp B, Hickman CJ, Bradley K, Wroblewski K, and Rota PA (2017): Molecular Testing of Clinical Specimens for Mumps Viruses in the USA: 2015 – 2016. 33rd Annual Clinical Virology Symposium, May 7-10, Savannah, GE.

Lamson DM, Kleobonas M, Ng TFF, Nix A, and **St. George K** (2017): Identification of Enterovirus B111 from an Encephalitis Case in New York State: Genomic Characterization, using Next Generation Sequencing. 33rd Annual Clinical Virology Symposium, May 7-10, Savannah, GE.

Sohi I, Smith LC, Dufort EM, Blog DS, Ostrowski SE, Ahmad N, Backenson B, White JL, Sommer JN, Limberger RJ, Wong SJ, **St. George K**, Kramer LD, Dupuis AP, Taylor J (2017): Rate of Prolonged Viremia in Pregnant Women Tested for Zika Virus at the New York State (NYS) Public Health Laboratory, 2016. June 4-8, CSTE 2017 Annual Conference, Boise, ID.

Lamson DM, Kajon AE, **St George K** (2018): Genetic characterization of adenovirus type 7 strains isolated from college students with influenza-like illness, New York, USA, 2017. 34th Annual Clinical Virology Symposium, May 6-9, West Palm Beach, FL.

Solis GP, Griesemer SB, Chandler DP, **St. George K** (2018): Evaluation of a Multiplexed, Sample-to-Answer, Microarray System for the Detection of Encephalitic Viruses. 34th Annual Clinical Virology Symposium, May 6-9, West Palm Beach, FL.

Lamson DM, Bryant P, Caldwell H, Solis G, Hacker J, Pope B, Gose R, **St. George K** (2018): Two methods for whole genome sequencing and genetic characterization of zika and mumps viruses. 34th Annual Clinical Virology Symposium, May 6-9, West Palm Beach, FL.

Fuschino ME, Church TM, St. George K (2018): Incomplete influenza virus inactivation by acetone fixation during IFA slide preparation. 34th Annual Clinical Virology Symposium, May 6-9, West Palm Beach, FL.

Griesemer SB, Bryant P, Yildirim T, **St. George K** (2018): VZV Molecular Clade Analysis and the Incidence of Vaccine Strain Compared to Wild Type Virus in CNS and Non-CNS Disease. 34th Annual Clinical Virology Symposium, May 6-9, West Palm Beach, FL.

McNall RJ, Wharton AK, Anderson R, Lopareva EN, Hacker JK, Strain A, Bryant PW, **St George K**, Shult P, Clemmons N, Bankamp B, Hickman CJ, Bradley K, and Rota PA (2018): Phylogenetic Analysis of Mumps SH Sequences from Clinical Specimens in the United States: 2015 – 2017. ESCV, Sep 23-26, Athens, Greece

Spencer S, Nguyen H, Abd Elal A, Laplante J, **St. George K**, Fry A, Campbell AP, Gubareva L (2018): Surveillance for oseltamivir-resistant influenza A(H1N1)pdm09 virus infections during 2016-2017 and 2017-18, United States. ID Week. Oct 3-7, San Francisco.

Kajon A, Hang J, Lamson D, Lu X, Erdman DD, Myers C, Carr M, Templeton K, Girouard G, Jarman R, **St. George K** (2018): Re-emergence and dispersion of human adenovirus type 14: new insights from the collaborative whole genome sequencing and analysis of 46 clinical isolates representing circulation between 2003 and 2017. 13th International Adenovirus Meeting, Sep 25-29, San Jose, Mexico.

Khandekar A, Yildirim T, Bryant P, **St. George K** (2019): Impact of Laboratory Response to Measles Outbreaks: New York State Public Health Laboratory, 2018-2019. 35th Annual Clinical Virology Symposium, May 7-10, Savannah, GE.

Dean AB, Zeng L, Hull R, Bhaskaran M, **St. George K** (2019): Persistent West Nile Virus viremia in a kidney transplant recipient. 35th Annual Clinical Virology Symposium, May 7-10, Savannah, GE.

Lamson DM, Kajon AE, Thomas K, Levi M, Popowich M, Fuschino M and **St. George K** (2019): Phylogenetic analysis of whole genome sequences of HAdV-B7 strains isolated from influenza-like-illness, fatalities and other syndromes in recent years in New York State. 35th Annual Clinical Virology Symposium, May 7-10, Savannah, GE.

Kodiyankal RP, Laplante JM, Salvatore M, Westblade LF and **St. George K** (2019): Detection and characterization of multi-drug resistant influenza B virus in a stem cell transplant recipient. 35th Annual Clinical Virology Symposium, May 7-10, Savannah, GE.

McNall RJ, Wharton AK, Kim G, Anderson R, Lopareva EN, Hacker JK, Strain A, Bryant PW, **St. George K**, Davis T, Reisdorf E, Shult P, Clemmons N, Bochnowski A, Bankamp B, Hickman CJ, and Rota PA (2019): Phylogenetic Analysis of Mumps SH Gene Sequences from Cases in the United States: 2018. 35th Annual Clinical Virology Symposium, May 7-10, Savannah, GE.

Wharton AK, McNall RJ, Kim G, Anderson R, Lopareva EN, Hacker JK, Strain A, Bryant PW, **St. George K**, Reisdorf E, Shult P, Lee A, Bochnowski A, Bankamp B, and Rota PA (2019): Measles Genotypes Detected in the United States during 2018. 35th Annual Clinical Virology Symposium, May 7-10, Savannah, GE.

Laplante JM, Stark T, Danz T, Edmunds Z, Griesser R, Padilla T, Pan CY, Sagar E, Chester S, Warren M, Shult P, **St. George K**, Wadford DA, Neuhaus E, Barnes JR, Wentworth D (2019): Whole genome influenza surveillance in the US enhanced with national influenza reference centers in cooperation with the CDC. Options for the Control of Influenza X, Aug 28-Sept 1, Singapore.

Stark TJ, Danz T, Griesser R, Laplante J, Pan CY, Padilla T, Edmunds Z, Sagar E, Shepard SS, Trujillo AA, Wilson M, Seenu S, Warren M, Chester S, Shult P, **St. George K**, Wadford DA, Wentworth DE, Neuhaus E, Barnes JR (2019): CDC influenza next-generation sequencing surveillance system and analytics. Options for the Control of Influenza X, Aug 28-Sept 1, Singapore.

Laplante J, Soave R, Westblade LF, Van Besien K, Salvatore M, **St. George K** (2019): Baloxavir for the treatment of Influenza virus infection in hematopoietic stem cell transplant recipients who failed oseltamivir. Options for the Control of Influenza X, Aug 28-Sept 1, Singapore.

Dufort E, Ahmad N, Rausch-Phung E, Bryant P, Smith L, Sommer J, Hofer D, Wester R, **St. George K**, Southwick K, Landis V, Noonan-Toly C, Johns D, Adams E, Ostrowski S, Ruppert P, Souto M, McKay K, McNulty L, Gelman I, Huang A, Levin T, McGraw N, Patel M, Gastanaduy P, McDonald R, Hutton B, Zucker H, Blog D (2019): Measles Outbreak in New York outside of New York City, 2018-2019. IDWeek, October 2-6, Washington D.C.

Dufort E, Ahmad N, Rausch-Phung E, Bryant P, Smith L, Sommer J, Hofer D, Wester R, **St. George K**, Southwick K, Landis V, Noonan-Toly C, Johns D, Adams E, Ostrowski S, Ruppert P, Souto M, McKay K, McNulty L, Gelman I, Huang A, Levin T, McGraw N, Patel M, Gastanaduy P, McDonald R, Hutton B, Zucker

H, Blog D (2019): The Role of Adults in the Measles Outbreak in New York State excluding New York City, 2018 – 2019. IDWeek, October 2-6, Washington D.C.

Cleary NG, Bryant PW, Lamson DM, **St. George K** (2022): An Analysis of Hepatitis A Cases and Outbreaks tested in NYS from 2019-2021 with Sanger and Next Generation Sequencing. Annual Clinical Virology Symposium, May 1-4, West Palm Beach, FL.

Russell A, O'Connor C, Lasek-Nesselquist E, Plitnick J, Kelly JP, Lamson DM, St. George K (2022): Spatiotemporal analyses of two co-circulating SARS-CoV-2 variants within New York State. Annual Clinical Virology Symposium, May 1-4, West Palm Beach, FL.

Cleary N, Bryant P, Lamson D, **St. George K** (2022): Hepatitis A Whole Genome Sequencing Using Ion S5™ AmpliSeq Technology for Enhanced Outbreak Analysis. APHL Annual Meeting, May 17-20, Cleveland OH

SERVICE**Active****Extramural**

Member	Planning committee, ASM Clinical Virology Symposium	2020 - 2023
SME Consultant	CSTE COVID-19 Case Definition Writing Group	2020 - current
Member	CDC/APHL VPD Reference Center Governance Group	2019 - current
SME Pan Flu	Assist. Sec. Preparedness and Response Operational Readiness Review	2019 - current
Member (SME)	Science Advisory Guide for Emergencies, Dept. of Homeland Security	2015 - current
Member	Influenza Committee, Association of Public Health Laboratories	2006 - current
Member	Editorial Board, Journal of Clinical Virology	2009 - current
Reviewer	Nature and various Nature journals, Clinical Microbiology Reviews, Journal of Clinical Microbiology, Journal of Clinical Virology, Journal of Virological Methods, Journal of Medical Virology, Antimicrobial Agents and Chemotherapy	

Intramural

Member	Wadsworth Institutional Biohazard Committee	2019 - current
Member	Wadsworth Subcommittee for BSL-3 Inactivation Procedures	2014 - current
	Wadsworth Delegate: Association for Public Health Laboratories	2005 - current
	Wadsworth rep: North East Environmental and PH Laboratory Directors Committee	2011 - current
Member	NYSDOH All Hazards Planning Workgroup	2013 - current
Ad-hoc reviewer	Wadsworth Intellectual Property Evaluation Committee	2013 - current

Previous**Extramural**

Member	Pan American Society for Clinical Virology Council	2018 - 2022
Chair	PASCV Nominations and Awards Committee	2018 - 2022
Member	AMP COVID Response Steering Committee	2021
Member	Infectious Disease Committee, Association of Public Health Laboratories	2014 to 2020
Reviewer	Medical Research Program, Department of Defense Congressionally Directed Medical Research Program	2017 - 2019
Chair	PASCV Communications Committee	2018 - 2019
Member	Eastern New York ASM Regional Meeting Program Committee	2018
PHL rep	ASM CPHM Strategic Planning Retreat, Washington DC	2017

Councilor at Large, Division C, American Society for Microbiology	2012 – 2017
Member Zika Virus Work Group, Association of Public Health Laboratories	2016
Chair Division Y (Public Health), American Society for Microbiology	2015 - 2016
Member Lead Work Group, National Influenza Surveillance Project, APHL/CDC	2010 - 2015
Member: American Society for Microbiology, Annual Regional Meeting Committee	2014
Member Microbiology Devices Panel, Medical Devices Advisory Committee, FDA	2013
Member: PASCV Annual Clinical Virology Symposium planning committee	2006 - 2012
Councilor: Pan American Society for Clinical Virology Council	2006 - 2010
Member: Planning Committee: Northeast Public Health Lab Preparedness Conference	2008
Member: Editorial Board, Clinical and Vaccine Immunology	2006 - 2007
Member: Editorial Board, Clinical and Diagnostic Laboratory Immunology	2002 - 2006
Member: National committee for reporting initiative on neonatal herpes	2007
Member: NIH Study Section, “Viral and Eukaryotic Pathogens”	2005
Member: Accreditation Inspection Team, Pittsburgh Central Blood Bank Lab	1992
Australian Society for Microbiology:	
Member: Scientific Program Committee, National Scientific Meeting, Launceston	1990
Secretary: Tasmanian Branch, ASM	1991 - 1992
Tasmanian representative: Virology SIG and Perinatal SIG	1988 - 1992
Australian Institute of Medical Scientists:	
Member, Scientific Program Committee, National Scientific Meeting, Hobart	1992
Newsletter Editor, Tasmanian Branch	1987 - 1989
Tasmanian Health Professionals Council Representative	1991 - 1992
Media Liaison/Publicity Officer, Tasmanian Branch	1991 - 1992
Hospital Scientists Committee of Tasmania:	
Member: Hospital Scientists Committee of Tasmania	1988 to 1992
Secretary: Hospital Scientists Committee of Tasmania	1988 to 1990

Intramural

Chair Curriculum Committee: Wadsworth Master’s Degree Program	2016 – 2019
Member NYS Incident Management System team, Zika Outbreak response	2016
Member NYS Incident Management System team, Ebola response	2014-2015
Member Medical Resource Committee, Chancellor’s SUNY Ebola Working Group	2014 - 2015
Member Wadsworth HRI Interaction Committee	2013 - 2017
Member Wadsworth Public Health Genomics Center Committee	2013 - 2017
Member NYSDOH Pandemic Influenza Response Plan team	2013-2014
Member Wadsworth Center Peer Review Board	2011-2014
Member NYS Incident Management System, Laboratory Lead Responder, Influenza Pandemic	2009

Member	Wadsworth Center CLRS Review Task Force	2008 – 2009
Member	NY State Pandemic Influenza Planning Team	2004-2009
Member	Planning Committee: Bacteriology and Virology Symposium, 27 September 2007.	
NYS Rep	CSTE Meeting on Avian Influenza Rapid Response, Washington DC	2007.
NYS Rep:	CSTE/CDC Neonatal Herpes Policy Meeting, Atlanta, GE March 20-21	2007.
Member:	CLEP Director Oversight Workgroup	2006-2008
NYS Rep:	Diagnosis and Surveillance Section, 7-State Pan Flu Planning Meeting, Boston, June 2006	
NYS Rep:	Proficiency Testing for Infectious Diseases, Review, Planning and Policy Meeting. CDC, Atlanta, June	2005
Member:	Diagnostics Team, Wadsworth Center Master Plan	2005-6
Member:	Wadsworth Center Research Laboratory Safety Work Group	2005
Member:	Wadsworth Center Continuity of Operations Planning Team	2005
Facilitator:	Avian Influenza: Preparation and Response Workshop, Albany, NY. June	2005.
Chairman:	Departmental retreat program committee, Department of Infectious Diseases and Microbiology, University of Pittsburgh	1999-2000.
Member:	University of Pittsburgh Medical Center, Laboratory Outreach Committee	1997-1998