

Garrick L Wallstrom

Biodesign Institute (BDI)
Personalized Diagnostics, Piper Center for (PPD)

Current Appointments:

Assistant Professor

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SciVal Experts URL: http://www.experts.scival.com/asu/expert.asp?n=Garrick+L+Wallstrom&u_id=994

Education

1999	PHD, University of Minnesota-Minneapolis
1998	MS, University of Minnesota-Minneapolis
1993	BS, Carnegie Mellon University

37 Publications

37 Publications from Scopus

2015	Karen S. Anderson; Daniel W. Cramer; Sahar Sibani; Garrick Wallstrom; Jessica Wong; Jin Park; Ji Qiu; Allison Vitonis; Joshua Labaer Autoantibody signature for the serologic detection of ovarian cancer Journal of Proteome Research. 2015;14(1):578-586.
2014	Bodour Salhia; Jeff Kiefer; Julianna T. D. Ross; Raghu Metapally; Rae Anne Martinez; Kyle N. Johnson; Danielle M. DiPerna; Kimberly M. Paquette; Sungwon Jung; Sara Nasser; et al. Integrated genomic and epigenomic analysis of breast cancer brain metastasis PLoS ONE. 2014;9(1).
2014	Rafael Prados-Rosales; Leandro J. Carreño; Ana Batista-Gonzalez; Andres Baena; Manjunatha M. Venkataswamy; Jiayong Xu; Xiaobo Yu; Garrick Wallstrom; D. Mitchell Magee; Joshua LaBaer; et al. Mycobacterial membrane vesicles administered systemically in mice induce a protective immune response to surface compartments of mycobacterium tuberculosis mBio. 2014;5(5).
2013	Himanshu Grover; Garrick Wallstrom; Christine C. Wu; Vanathi Gopalakrishnan Context-sensitive markov models for peptide scoring and identification from tandem mass spectrometry OMICS A Journal of Integrative Biology. 2013;17(2):94-105.
2013	Xiaobo Yu; Garrick Wallstrom; Dewey Mitchell Magee; D. Eliseo A. Mendoza; Jie Wang; Xiaofang Bian; Morgan Graves; Joshua LaBaer Quantifying antibody binding on protein microarrays using microarray nonlinear calibration BioTechniques. 2013;54(5):257-264.
2013	Garrick Wallstrom; Karen S. Anderson; Joshua Labaer

Biomarker discovery for heterogeneous diseases

Cancer Epidemiology Biomarkers and Prevention. 2013;22(5):747-755.

- 2013 Jie Wang; Kristi Barker; Jason Steel; Jin Park; Justin Saul; Fernanda Festa; Garrick Wallstrom; Xiaobo Yu; Xiaofang Bian; Karen S. Anderson; et al.
A versatile protein microarray platform enabling antibody profiling against denatured proteins
Proteomics - Clinical Applications. 2013;7(5-6):378-383.
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- 2013 Dae-Wook Kang; Jin Gyoon Park; Zehra Esra Ilhan; Garrick Wallstrom; Joshua LaBaer; James B. Adams; Rosa Krajmalnik-Brown
Reduced Incidence of Prevotella and Other Fermenters in Intestinal Microflora of Autistic Children
PLoS ONE. 2013;8(7).
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- 2013 Shane Miersch; Xiaofang Bian; Garrick Wallstrom; Sahar Sibani; Tanya Logvinenko; Clive H. Wasserfall; Desmond Schatz; Mark Atkinson; Ji Qiu; Joshua LaBaer
Serological autoantibody profiling of type 1 diabetes by protein arrays
Journal of Proteomics. 2013;94:486-496.
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- 2011 Karen S. Anderson; Sahar Sibani; Garrick Wallstrom; Eliseo A. Mendoza; Jacob Raphael; Eugenie Hainsworth; Wagner R. Montor; Jessica Wong; Jin G. Park; Naa Lokko; et al.
Protein microarray signature of autoantibody biomarkers for the early detection of breast cancer
Journal of Proteome Research. 2011;10(1):85-96.
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- 2010 Xiaohui Kong; Christian D. Schunn; Garrick L. Wallstrom
High regularities in eye-movement patterns reveal the dynamics of the visual working memory allocation mechanism
Cognitive Science. 2010;34(2):322-337.
-
- 2009 M.H. Torres-Urquidy; G. Wallstrom; T.K.L. Schleyer
Detection of disease outbreaks by the use of oral manifestations
Journal of Dental Research. 2009;88(1):89-94.
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- 2009 Xia Jiang; Garrick Wallstrom; Gregory F. Cooper; Michael M. Wagner
Bayesian prediction of an epidemic curve
Journal of Biomedical Informatics. 2009;42(1):90-99.
-
- 2009 Aurel Cami; Garrick L Wallstrom; William R Hogan
Measuring the effect of commuting on the performance of the Bayesian Aerosol Release Detector
BMC Medical Informatics and Decision Making. 2009;9(SUPPL. 1):[S7].
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- 2009 Aurel Cami; Garrick L. Wallstrom; Ashley L. Fowlkes; Cathy A. Panozzo; William R. Hogan
Mining aggregates of over-the-counter products for syndromic surveillance
Pattern Recognition Letters. 2009;30(3):255-266.
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- 2008 Aurel Cami; Garrick L. Wallstrom; William R. Hogan
Effect of commuting on the detection and characterization performance of the Bayesian aerosol release detector
Proceedings - 2008 IEEE International Conference on Bioinformatics and Biomedicine Workshops, BIBMW. 2008:91-98:[4686214].
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- 2008 Aurel Cami; Garrick L. Wallstrom; William R. Hogan
Integrating a commuting model with the Bayesian aerosol release detector
Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). 2008;5354 LNBI:85-96.
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- 2008 Min Zhang; Xiaohui Kong; Garrick L. Wallstrom
Simulation of multivariate spatial-temporal outbreak data for detection algorithm evaluation
Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). 2008;5354 LNBI:155-163.
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- 2008 Xiaohui Kong; Garrick L. Wallstrom; William R. Hogan
A temporal extension of the Bayesian aerosol release detector
Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). 2008;5354 LNBI:97-107.
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- 2008 Min Zhang; Garrick L Wallstrom
Template-driven spatial-temporal outbreak simulation for outbreak detection evaluation.
AMIA ... Annual Symposium proceedings / AMIA Symposium. AMIA Symposium. 2008:854-858.
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- 2008 Garrick Wallstrom; Jeffrey Liebner; Robert E. Kass
An implementation of Bayesian Adaptive Regression Splines (BARS) in C with S and R wrappers
Journal of Statistical Software. 2008;26(1):1-21.
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- 2007 Garrick L. Wallstrom; William R. Hogan
Unsupervised clustering of over-the-counter healthcare products into product categories
Journal of Biomedical Informatics. 2007;40(6):642-648.
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- 2007 Loren Shaffer; Julie Funk; Päivi Rajala-Schultz; Garrick Wallstrom; Thomas Wittum; Michael Wagner; William Saville
Early outbreak detection using an automated data feed of test orders from a veterinary diagnostic laboratory
Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). 2007;4506 LNCS:1-10.
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- 2007 William R. Hogan; Gregory F. Cooper; Garrick L. Wallstrom; Michael M. Wagner; Jean-Marc Depinay
The Bayesian aerosol release detector: An algorithm for detecting and characterizing outbreaks caused by an atmospheric release of Bacillus anthracis
Statistics in Medicine. 2007;26(29):5225-5252.
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- 2006 Garrick Wallstrom; Michael M. Wagner; Agnieszka Onisko
Probabilistic Interpretation of Surveillance Data
Handbook of Biosurveillance. 2006:417-422.
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- 2006 Xia Jiang; Garrick L. Wallstrom
A bayesian network for outbreak detection and prediction
Proceedings of the National Conference on Artificial Intelligence. 2006;2:1155-1160.
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- 2006 Michael M. Wagner; Garrick Wallstrom
Methods for Algorithm Evaluation
Handbook of Biosurveillance. 2006:301-310.
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- 2006 Agnieszka Onisko; Garrick Wallstrom; Michael M. Wagner
Decision Analysis
Handbook of Biosurveillance. 2006:405-416.
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- 2005 Michael M Wagner; Garrick L Wallstrom; Agnieszka Onisko
Issue a boil-water advisory or wait for definitive information? A decision analysis.
AMIA ... Annual Symposium proceedings / AMIA Symposium. AMIA Symposium. 2005:774-778.
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- 2005 Sam Behseta; Robert E. Kass; Garrick L. Wallstrom
Hierarchical models for assessing variability among functions
Biometrika. 2005;92(2):419-434.
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- 2005 Garrick L Wallstrom; M. Wagner; W. Hogan
High-fidelity injection detectability experiments: a tool for evaluating syndromic surveillance systems.
MMWR. Morbidity and mortality weekly report. 2005;54 Suppl:85-91.
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- 2005 Ran Li; Garrick L Wallstrom; William R Hogan
A multivariate procedure for identifying correlations between diagnoses and over-the-counter products from historical datasets.
AMIA ... Annual Symposium proceedings / AMIA Symposium. AMIA Symposium. 2005:450-454.
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- 2005 William R Hogan; Garrick L Wallstrom; Michael M Wagner
An evaluation of three policies for updating product categories in the National Retail Data Monitor.
AMIA ... Annual Symposium proceedings / AMIA Symposium. AMIA Symposium. 2005:325-329.
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- 2004 Garrick L. Wallstrom; Robert E. Kass; Anita Miller; Jeffrey F. Cohn; Nathan A. Fox
Automatic correction of ocular artifacts in the EEG: A comparison of regression-based and component-based methods
International Journal of Psychophysiology. 2004;53(2):105-119.
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- 2003 Xiaohua Zhang; Kathryn Roeder; Garrick Wallstrom; Bernie Devlin
Integration of association statistics over genomic regions using Bayesian adaptive regression splines.
Human genomics. 2003;1(1):20-29.
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- 1999 Joseph B. Kadane; Christopher A. Stone; Garrick Wallstrom
The donation paradox for preemptory challenges
Theory and Decision. 1999;47(2):139-151.
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- 1998 Jacqueline Cohen; Daniel Nagin; Garrick Wallstrom; Larry Wasserman
Hierarchical Bayesian analysis of arrest rates
Journal of the American Statistical Association. 1998;93(444):1260-1270.
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Proposals

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- 2014 - 2014 Chad Randolph Borges; Garrick L. Wallstrom
Undisclosed
Sponsor: FEDERAL: HHS-NIHTotal Proposal Value: \$ 680,753.00
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2013 - 2013 Joshua Labaer; Garrick L. Wallstrom
Power analysis tools for biomarker discovery with heterogeneous diseases
Sponsor: FEDERAL: HHS-NIHTotal Proposal Value: \$ 368,267.00

2013 - 2013 Joshua Labaer; Ji Qiu; Garrick L. Wallstrom
Autoantibody Biomarker Discovery in Inflammatory Bowel Disease Using Immunoproteomics
Sponsor: ASU: Mayo Seed GrantTotal Proposal Value: \$ 39,855.00
