

IVDS papers:

- Wick, C. H., Carlon, H., Yeh, H., Anderson, D., *Quasi-Real-time Monitor for Airborne Viruses*, January 1998, ERDEC-TR-45
- Wick, C. H., McCubbin, P. E., *Purification of MS2 bacteriophage from complex growth media and resulting analysis by the integrated virus detection system (IVDS)*, (1999). *Toxicology Methods* 9:253-263.
- Wick, C. H., McCubbin, P. E., *Characterization of purified MS2 bacteriophage by the physical counting methodology used in the integrated virus detection system (IVDS)*. (1999). *Toxicology Methods* 9:245-252.
- Wick, C. H., McCubbin, P. E., *Passage of MS2 bacteriophage through various molecular weight filters*, (1999). *Toxicology Methods* 9:265-273.
- Wick, C.H., Anderson, D., McCubbin, P.E., *Characterization of the Integrated Virus Detection System (IVDS) Using MS-2 Bacteriophage* May 1999, ECBC-TR-018
- Wick, C.H., *Analysis of the Physical Behavior of Viruses Using the Integrated Virus Detection System (IVDS)*, 2002 U.S. Army Science Conference
- Kuzmanovic, D.A., I. Elashvili, C. H. Wick, C. O'Connell and S. Krueger, *Bacteriophage MS2: Molecular Weight and Spatial Distribution of the Protein and RNA Components by Small-Angle Neutron Scattering and Virus Counting*, *Structure*, Vol. 11, 1339-1348, November 2003.
- Thomas, J.J., B. Bother, J. Traina, W. H. Benner, and G. Siuzdak, *Electrospray ion mobility spectrometry of intact viruses*. *Spectroscopy* 18 (2004) 31-36.
- Jabbour, R. E., D. Kuzmanovic, P. E. McCubbin, I. Elashvili, C. H. Wick, *Mass Spectrometry and Integrated Virus Detection System Characterization of MS2 Bacteriophage*, August 2005 ECBC-TR-440
- Elashvili, I., C.H. Wick, D. Kuzmanovic, S. Krueger, C. O'Connell, *Effects of Sample Impurities on the Analysis of MS2 Bacteriophage by Small-Angle Neutron Scattering*, ECBC-TR-441, August 2005.
- Wick, C. H., P. E. McCubbin, *Stability of IVDS Electrospray Module during Analysis of MS2 Bacteriophage*, November 2005, ECBC-TR-462
- Wick, C. H., I. Elashvili, P. E. McCubbin, A. Birenzvege, *Determination of MS2 Bacteriophage Stability at High Temperatures using the IVDS*, December 2005, ECBC-TR-453

- Dworzanski, J.P., A. Tripathi, A. P. Snyder, W.M. Maswdeh, and C.H. Wick, *Novel biomarkers for Gram-type differentiation of bacteria by pyrolysis-gas chromatography-mass spectrometry*. J. Anal. Appl. Pyrolysis (2005), 73, 29-38
- Wick, C. H , P. E. McCubbin, A. Birenzvige *Detection and Identification of Viruses Using the Integrated Virus Detection System (IVDS)*. ECBC Technical Report: 2006, ECBC-TR-463
- Wick, C.H., R.Jabbour, P.E. McCubbin, S.V. Deshpande, *Detecting Bacteria by Direct Counting of Structural Protein Units by IVDS and Mass Spectrometry*, ECBC-TR-464
- Wick, C.H., P.E. McCubbin, A. Birenzvige, *Determination of MS2 Bacteriophage stability At High pH Using the IVDS*, ECBC-TR-472
- Wick, C.H., P.E. McCubbin, A. Birenzvige, *Determination of MS2 Bacteriophage stability At Low pH Using the IVDS*, ECBC-TR-473
- Wick, C.H., R.E. Jabbour, P.E. McCubbin, *Detecting Bacteria by Direct Counting of Structural Protein Units by IVDS and Mass Spectrometry*, 2006, in press 16(9), Toxicology Methods and Materials.
- Kuzmanovic, D.A., I. Elashvili, C. Wick, C. O'Connell, and S. Krueger, *The MS2 Coat Protein Shell is Likely Assembled Under Tension: A Novel Role for the MS2 Bacteriophage A Protein as Revealed by Small-angle Neutron Scattering*. J. Mol. Biology. (2006) 355, 1095-1111.
- Dworzanski, J.P., S.V. Deshpande, R.Chen, R.E. Jabbour, A.P. Snyder, C.H. Wick, L.Li. *Mass Spectrometry-Based Proteomics Combined with Bioinformatic Tools for Bacterial Classification*, Journal of Proteome Research, (2006), vol 5, number 1, pp 76-87.
- Kuzmanovic, D.A., I. Elashvili, C. Wick, C. O'Connell, S. Krueger, *Quantification of RNA in bacteriophage MS2-like viruses in solution by small-angle X-ray scattering*, Radiation Physics and Chemistry 75 (2006) 359-368.
- Krishnamurthy, T., S. Deshpande, J. Hewel, H. Liu, C.H. Wick, J.R. Yates, *Specific Identification of Bacillus anthracis strains*, Submitted, June 2006
- Wick, C.H., I. Elashvili, R. Jabbour, D. Kuzmanovic, P. McCubbin, S. Deshpande, *Mass Spectrometry and Integrated Virus Detection System Characterization of MS2 Bacteriophage*, submitted to Toxicology Methods and Materials, July 2006

