

PUBLICATIONS LIST

PUBLISHED PAPERS

- **P. Chakraborty**, X. Hu and H. Wang (2018): “Stable Lévy Diffusion and Related Model Fitting.” *Modern Stochastics: Theory and Application (In press)*.
- Kamaljeet Kaur, Arpit Saxena, Irina Debnath, Jacqueline L. O’Brien, Nadim J. Ajami, Thomas A. Auchtung, Joseph F. Petrosino, Alexander-Jacques Sougiannis, Sarah Depaep, Alexander Chumanevich, Phani M. Gummadidala, Mayomi H. Omebeyinje, Sourav Banerjee, Ioulia Chatzistamou, **Paramita Chakraborty**, Raja Fayad, Franklin G. Berger, James A. Carson & Anindya Chanda. (2018) “Antibiotic-mediated bacteriome depletion in ApcMin/+ mice is associated with reduction in mucus-producing goblet cells and increased colorectal cancer progression.” *Cancer Medicine*, doi:10.1002/cam4.1460.
- R. Rowshan, C. Agbasi, **P. Chakraborty**, S. Banerjee. (2015). “Spiral Sensing and Probability Map of Impact (PMOI) for Impact Characterization.” *International Journal of Modern Engineering, Vol 16, No 1*, 2015.
- G. Kenne, **P. Chakraborty** and A. Chanda (2014). “Modeling Toxisome Protrusions in Filamentous Fungi.” *JSM Environmental Science & Ecology*, 2(1), 2014.
- C. Bhan, **P. Chakraborty** and V.S. Mandrekar (2012). “Invariant Measure and Stability of the Solution of a Stochastic Differential Equation Driven by a Jump Levy Process.” *Int. J. Contemp. Math. Sciences*, Vol. 7, no. 1, Pages 33 – 52, (2012).
- **P. Chakraborty** (2009). “Stochastic Differential Equation Model with Jumps for Fractional Advection and Dispersion.” *Journal of Statistical Physics: Volume 136, Issue 3, Page 527*.
- **P. Chakraborty**, M. Meerschaert and C.Y. Lim (2009). “Parameter Estimation for Fractional Transport: A Particle Tracking Approach.” *Water Resources Research*, 45, W10415, Page 15.

SUBMITTED PAPERS

- **P. Chakraborty**, C. Ma, J. Grego and J. Lynch (2018): “Exploratory data analysis for large-scale multiple testing problems and its application in gene expression studies.” Submitted to *Computational Statistics and Data Analysis*. (under review).
- **P. Chakraborty**, C. Ma, J. Grego and J. Lynch (2018): “Asymptotic Conditional Update for Mixture Models Used in Large-Scale Inference.” Submitted to *Statistics and Probability Letters* (under review).
- C. Ma, **P. Chakraborty**, J. Grego and J. Lynch (2018): “A modified screening procedure for large-scale multiple hypothesis testing problems based on false discovery rate control and sub-sampling.” To be submitted to *Biostatistics*.
- Phani M. Gummadidala, William Becker, Mayomi H. Omebeyinje, Li Chen, Chandrani Mitra, Rubaiya Jesmin, **Paramita Chakraborty**, Sajish Mathew, Koyeli Banerjee, Qian Wang, Mitzi Nagarkatti, Prakash Nagarkatti, Peter D. R. Moeller and Anindya Chanda (2018): “Acute and chronic administrations of delta-9-tetrahydrocannabinol modulate major gut metabolomic regulatory pathways in C57BL/6 mice.” Submitted to *Scientific Reports* (under review).

- Phani M. Gummadidala, Mayomi H. Omebeyinje, James A. Burch, Paramita Chakraborty, Prasanta K. Biswas, Koyeli Banerjee, Qian Wang, Rubaiya Jesmin, Chandrani Mitra, Peter D. R. Moeller, Geoffrey I. Scott and Anindya Chanda (2018): “Complementary feeding may pose a risk of Aflatoxin M1 and Deoxynivalenol exposures to Indian infants and toddlers: lessons from a mini-survey of food samples obtained from Kolkata, India.” Submitted to *Food and Chemical Toxicology* (*under review*).

WORKING PAPERS

- **P. Chakraborty** (2018): The Martingale Problem Associated with jump (α -Stable) Diffusion Processes and the Existence of the Solution.
- **P. Chakraborty and H. Chakraborty**: Two State Time Homogeneous Continuous Markov Chain Model for HIV Disease Progression: Application to HIV Data in South Carolina.
- H. Chakraborty, **P. Chakraborty**, and others: Clinical Trial of Recurring Infection Data Analysis Using Markov Chain: Intervention to Reduce Human Papillomavirus Infection.