Publications:

Peer reviewed journals:

1. Mydhily R. B. Nair, Deepak Chouhan, Sourav Sen Gupta and Santanu Chattopadhyay. (2016). Fermented Foods: Are They Tasty Medicines for *Helicobacter pylori* Associated Peptic Ulcer and Gastric Cancer? *Front. Microbiol.* 7:1148.

2. Chattopadhyay S. Koch’s Postulates to Metagenome and Next-Generation Sequencing, But what is Next? (2015) *J GastrointestDisord Liver Func.* 1(2): 1-2.

3. Chattopadhyay S, Mukhopadhyay AK, Nair GB. The VacA and The CagA of *Helicobacter Pylori*: Two Multitasking Proteins of a Multitasking Bacterium. (2015) *J GastrointestDisord Liver Func.* 1(1): 1-6.

4. Patra R, Chattopadhyay S, De R, Ghosh P, Ganguly M, Chowdhury A, Ramamurthy T, Nair GB, Mukhopadhyay AK. Multiple infection and microdiversity among *Helicobacter pylori* isolates in a single host in India. *PLoS One*. 2012;7(8):e43370.

5. Chattopadhyay S, Patra R, Chatterjee R, De R, Alam J, Ramamurthy T, Chowdhury A, Nair GB, Berg DE, Mukhopadhyay AK. Distinct repeat motifs at the C-terminal region of CagA of *Helicobacter pylori* strains isolated from diseased patients and asymptomatic individuals in West Bengal, India. *Gut Pathog*. 2012. 25;4(1):4.

6. Patra R, Chattopadhyay S, De R, Datta S, Chowdhury A, Ramamurthy T, Nair GB, Berg DE, Mukhopadhyay AK. Intact cag pathogenicity island of *Helicobacter pylori* without disease association in Kolkata, India. *Int J Med Microbiol*. 2011 Apr;301(4):293-302.

7. Mao H, Chattopadhyay S, Banerjee AK. Domain within the C protein of human parainfluenza virus type 3 that regulates interferon signaling. *Gene Expr*. 2010;15(1):43-50.

8. Sarkar A*, Chattopadhyay S*, Ming Luo and Amiya K. Banerjee. Structural and functional properties of the vesicular stomatitis virus nucleoprotein-RNA complex as revealed by proteolytic digestion. *Virology*. 2010. 401: 61-69. *Co-first author.*

9. Mao H, Chattopadhyay S, Banerjee AK. N-terminally truncated C protein, CNDelta25, of human parainfluenza virus type 3 is a potent inhibitor of viral replication. *Virology*. 2009. 10;394(1):143-8.

10. Chattopadhyay S, Banerjee AK. Phosphoprotein, P of human parainfluenza virus type 3 prevents self-association of RNA-dependent RNA polymerase, L. *Virology*. 2009. 383:226-236.

11. Saha DR, Datta S, Chattopadhyay S, Patra R, De R, Rajendran K, Chowdhury A, Ramamurthy T, Mukhopadhyay AK. Indistinguishable cellular changes in gastric mucosa between *Helicobacter pylori* infected asymptomatic tribal and duodenal ulcer patients. *World J Gastroenterol*. 2009. 15(9):1105-12.

12. Mao H, Thakur CS, Chattopadhyay S, Silverman RH, Gudkov A, Banerjee AK. Inhibition of human parainfluenza virus type 3 infection by novel small molecules. *Antiviral Res*. 2008. 77(2):83-94.

13. Malur AG, Chattopadhyay S, Maitra RK, Banerjee AK. Inhibition of STAT 1 phosphorylation by human parainfluenza virus type 3 C protein. *J Virol*. 2005. 79(12):7877-7882.
14. Datta S, Chattopadhyay S, Chowdhury A, Santra A, Saha DR, Ramamurthy T, Bhattacharya SK, Berg DE, Nair GB, Mukhopadhyay AK. Diagnosis and genotyping of Helicobacter pylori by polymerase chain reaction of bacterial DNA from gastric juice. J GastroenterolHepatol. 2005. 20(8):1253-1259.

15. Datta S, Chattopadhyay S, Patra R, De R, Ramamurthy T, Hembram J, Chowdhury A, Bhattacharya SK, Berg DE, Nair GB, Mukhopadhyay AK. Most Helicobacter pylori strains of Kolkata in India are resistant to metronidazole but susceptible to other drugs commonly used for eradication and ulcer therapy. Aliment PharmacolTher. 2005. 22(1):51-57.

16. Nahar S, Mukhopadhyay AK, Khan R, Ahmad MM, Datta S, Chattopadhyay S, Dhar SC, Sarker SA, Engstrand L, Berg DE, Nair GB, Rahman M. Antimicrobial susceptibility of Helicobacter pylori strains isolated in Bangladesh. J ClinMicrobiol. 2004. 42(10):4856-4858.

17. Chattopadhyay S, Patra R, Ramamurthy T, Chowdhury A, Santra A, Dhali GK, Bhattacharya SK, Berg DE, Nair GB, Mukhopadhyay AK. Multiplex PCR assay for rapid detection and genotyping of Helicobacter pylori directly from biopsy specimens. J ClinMicrobiol. 2004. 42(6):2821-2824.

18. Pandey M, Khan A, Das SC, Sarkar B, Kahali S, Chakraborty S, Chattopadhyay S, Yamasaki S, Takeda Y, Nair GB, Ramamurthy T. Association of cytotoxic distending toxin locus cdtB with enteropathogenic Escherichia coli isolated from patients with acute diarrhea in Calcutta, India. J ClinMicrobiol. 2003. 41:5277-5281.

19. Datta S, Chattopadhyay S, Balakrish Nair G, Mukhopadhyay AK, Hembram J, Berg DE, Rani Saha D, Khan A, Santra A, Bhattacharya SK, Chowdhury A. Virulence genes and neutral DNA markers of Helicobacter pylori isolates from different ethnic communities of West Bengal, India. J ClinMicrobiol. 2003. 41(8):3737-3743.

20. Datta S, Khan A, Nandy RK, Rehman M, Sinha S, Chattopadhyay S, Das SC, Nair GB. Environmental isolates of Aeromonas spp. harboring the cagA-like gene of Helicobacter pylori. Appl Environ Microbiol. 2003. 69(7):4291-4295.

21. Chaudhuri S, Chowdhury A, Datta S, Mukhopadhyay AK, Chattopadhyay S, Saha DR, Dhali G, Santra A, Nair GB, Bhattacharya S, Berg DE. Anti-Helicobacter pylori therapy in India: differences in eradication efficiency associated with particular alleles of vacuolatingcytotoxin (vacA) gene. J GastroenterolHepatol. 2003. 18(2):190-195.

22. Bhattacharyya A, Pathak S, Datta S, Chattopadhyay S, Basu J, Kundu M. Mitogen-activated protein kinases and nuclear factor-kappaB regulate Helicobacter pylori-mediated interleukin-8 release from macrophages. Biochem J. 2002. 368(Pt 1):121-129.

23. Chattopadhyay S, Datta S, Chowdhury A, Chowdhury S, Mukhopadhyay AK, Rajendran K, Bhattacharya SK, Berg DE, Nair GB. Virulence genes in Helicobacter pylori strains from West Bengal residents with overt H. pylori-associated disease and healthy volunteers. J ClinMicrobiol. 2002. 40(7):2622-2625.

24. Datta S, Kurazono H, Chattopadhyay S, Chowdhury A, Chaudhuri, S. Estimation of vacuolatingcytotoxin secreted by different strains of Helicobacter pylori using bead enzyme-linked immunosorbent assay & its correlation with bacterial genotype. Indian J Med Res. 2001. 114:192-198.

Book Chapters:
1. Sen Gupta S, Chattopadhyay S and Nair GB. Undernourished Children and the gut microbiome. In *Probiotics from Bench to Community*. Ed. Ramakrishna BS, Nair GB and Takeda Y. Elsevier. 2016

2. Chattopadhyay S, Esper F, Banerjee, A. K. Respirovirus. *Springer Index of Viruses*. Tidona C and Darai G (Eds.) 2nd ed. Springer. Heidelberg. Germany. 2011. 243.

3. Chattopadhyay S, Esper F, Banerjee AK. Parainfluenza viruses. In *The Biology of Paramyxoviruses*. Samal SK (Eds). Caister Academic Press, Norfolk, UK. Page 175-209.

**Meetings/ Symposia**

**A. Invited talks in National Symposium:**

1. “Linking virome to cardiovascular diseases” at the “Cardiovascular Research Convergence 2017” at Translational Health Science and Technology Institute, Faridabad, Haryana on 12\textsuperscript{th} August, 2017.

2. “Changing trends in Micribiology: from virulence markers to Microbiome and virome” at the National Seminar on “Omics and Biomarker Analysis: In Disease Pathology” at Dept. of Zoology, University of Kerala on 22\textsuperscript{nd} and 23\textsuperscript{rd} June, 2015.

**B. Oral presentations at international symposium:**

1. Chattopadhyay S, Sarkar A, Sen P, Banerjee A.K. Characterization of the protein kinase activity that phosphorylates within domain II of vesicular stomatitis virus phosphoprotein, P. 27\textsuperscript{th} annual meeting of *American society for virology* held at Cornell University, Ithaca, New York, USA July 12-16, 2008.

2. Chattopadhyay S, Banerjee A.K. Entire N-terminal region spanning 1060 amino acids of the large protein (L) of human parainfluenza virus type 3 (HPIV3) is required to bind to the phosphoprotein (P) for proper folding of the L protein. 26\textsuperscript{th} annual meeting of *American society for virology* held at Oregon State University, Corvallis, Oregon , USA July 14-18, 2007.

3. Chattopadhyay S, Malur A.G, Banerjee A.K. Interactions of Human parainfluenza virus type 3 C protein with P and L proteins. 25\textsuperscript{th} annual meeting of *American society for virology* held at University of Wisconsin-Madison, Madison, Wisconsin, USA July 15-19, 2006.

4. Chattopadhyay S, Dutta S, Chowdhury A, Choudhuri S, Mukhopadhyay, AK, Rajendran K, Bhattacharya SK, Berg DE, Nair GB. Different distribution of key virulence genes in *H. pylori* strains from West Bengal residents with overt *H. pylori* associated disease versus healthy volunteers. 9\textsuperscript{th} *Asian Conference on Diarrheal Diseases and Nutrition* held at Ashok Hotel, New Delhi, India September 28-30, 2001.

**C. Poster presentations at international symposium:**
1. Chattopadhyay S, Dutta S, Chowdhari A, Chowdhari S, Mukhopadhyay, AK, Rajendran K, Bhattacharya SK, Berg DE, Nair GB. Genotypes of Helicobacter pylori in India and the lack of association with clinical status of the host. 10th International Congress of International Union of Microbial Societies held at Paris, France July 27-August 1, 2002.

D. Published abstracts as co-author at international symposium:

1. Sarkar A, Chattopadhyay S, Banerjee, A. K. Biochemical properties of chymotrypsin digested purified VSV N protein-RNA complex. 27th annual meeting of American Society for Virology held at Cornell University, Ithaca, New York, USA July 12-16, 2008.
2. Mao H, Chattopadhyay S, Banerjee A. K. Role of human parainfluenza virus type 3 C protein in inhibiting IFN signaling. 27th annual meeting of American Society for Virology held at Cornell University, Ithaca, New York, USA July 12-16, 2008.
3. Mao H, Thakur C, S, Chattopadhyay S, Silverman R, Banerjee A. K. Inhibition of human parainfluenza virus type 3 primary transcription by novel small molecules. 26th annual meeting of American Society for Virology held at Oregon State University, Corvallis, Oregon, USA July 14-18, 2007.