



**NATIONAL INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH
(NIPER - KOLKATA)**

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Report of Project progress and On-going Research

Name : Dr.G.P. Pazhani(Institutional ID. No: NK-1024)
Designation : Assistant Professor
Division : Department of Natural products

DST-Early Career Research Award (ECRA) project

Title : Sensitization of Colicin Resistant *E. coli* by Cell-Penetrating Peptides.
Funding agency : **DST, Government of India, New Delhi.**
Duration : Three Years (2016-2019), Grant (₹): 18,04 lakh

Status

The above-mentioned research project is on-going and started in August 2016. Data acquisition is in progress as per the timeline mentioned in the project. The data generated in this project will be analyzed and research paper will be drafted. The drafted manuscript will be communicated to International/National journals for publications in forthcoming years.

On-going Research Work at NIPER-Kolkata

Project Title : Chemical synthesis and biological evaluation of butin and its derivatives

Funding agency: Department of Pharmaceuticals, Ministry of Chemical and Fertilizers, Govt. of India

Status: butin is polyphenolic compound and biological activity of this compound is not explored in detail. The proposed study is aimed to test for anti-microbial and anti-cancer activity.

Research Outcome (*Published/under communication*)

1. Chowdhury G, **Pazhani GP**, Sarkar A, Rajendran K, Mukhopadhyay AK, Bhattacharya MK, Ghosh A, Ramamurthy T. Carbapenem Resistance in Clonally Distinct Clinical Strains of *Vibrio fluvialis* Isolated from Diarrheal Samples. *Emerg Infect Dis.* 2016 Oct;22(10):1754-61.
2. Chowdhury G, Bhadra RK, Bag S, **Pazhani GP**, Das B, Basu P, Nagamani K, Nandy RK, Mukhopadhyay AK, Ramamurthy T. Rugose atypical *Vibrio cholerae* O1 El Tor responsible for 2009 cholera outbreak in India. *J Med Microbiol.* 2016 Oct;65(10):1130-1136.

3. Das B, **Pazhani GP**, Sarkar A, Mukhopadhyay AK, Nair GB, Ramamurthy T. Molecular evolution and functional divergence of *Vibrio cholerae*. *Curr Opin Infect Dis*. 2016 Oct;29(5):520-7.
4. Adewale AK, **Pazhani GP**, Abiodun IB, Afolabi O, Kolawole OD, Mukhopadhyay AK, Ramamurthy T. Unique Clones of *Vibrio cholerae* O1 El Tor with Haitian Type ctxB Allele Implicated in the Recent Cholera Epidemics from Nigeria, Africa. *PLoS One*. 2016 Aug 1;11(8):e0159794.
5. **Pazhani GP** , Ravichandiran V, Veerapandian M, Ramamurthy T, Bioinformatics on Unproven Secretion Systems of *Vibrio parahaemolyticus* (2016). (Communicated to Microbial Genomics)

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