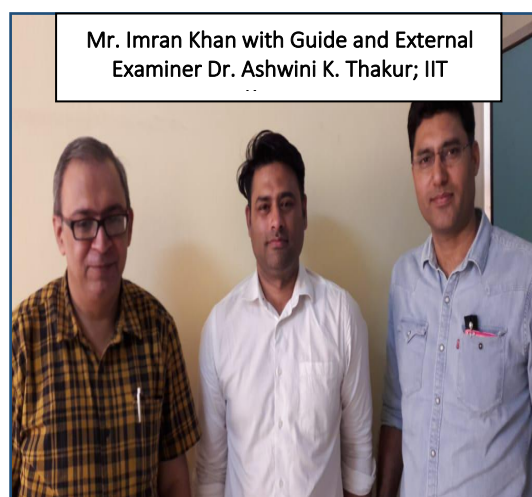
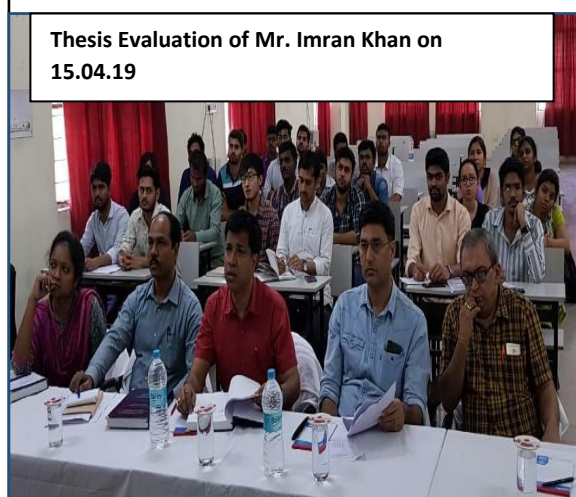
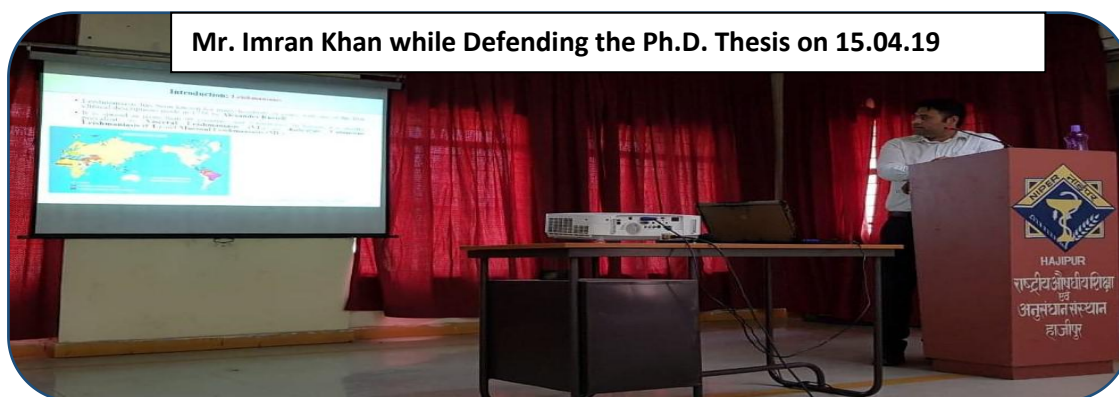


## Congratulation to *Mr. Imran Khan* on his successful defence of Ph.D. on 15<sup>th</sup> April 2019 at NIPER –Hajipur



**Topic: "Study of base excision repair pathway components DNA Polymerase  $\beta$  and DNA Ligase III  $\alpha$  of *Leishmania donovani*"**

**Advisor: Dr. Kislay Kumar Sinha, Associate Professor, NIPER**

**Hajipur**

**Outcome of Ph.D. Research:**

**We have identified the two repair components DNA Polymerase  $\beta$  and DNA Ligase III  $\alpha$  which is important for the survival of *Leishmania donovani* under oxidative stress.**

## Paper Published: 05

- **Mohd. Imran Khan, Anshul Mishra, Pravin K. Jha, Kumar Abhishek, Rachna Chaba, Pradeep Das, Kislay K. Sinha. 2018. DNA polymerase  $\beta$  of Leishmania donovani is important for infectivity and it protects the parasite against oxidative damage. International Journal of Biological Macromolecules. <https://doi.org/10.1016/j.ijbiomac.2018.11.159> (I.F. 3.9).**
- **Mishra A\*, Khan MI\*, Jha PK, et al. 2018. Oxidative Stress-Mediated Overexpression of Uracil DNA Glycosylase in Leishmania donovani Confers Tolerance against Antileishmanial Drugs, Oxidative Medicine and Cellular Longevity. 21, doi:10.1155/2018/4074357. [\* co-first author] (I.F. 4.9).**
- **Singh J, Khan MI, Singh Yadav SP, Srivastava A, Sinha KK, Ashish, Das P, Kundu B. 2017. L-Asparaginase of Leishmania donovani: Metabolic target and its role in Amphotericin B resistance. International Journal for Parasitology: Drugs and Drug Resistance 7:337e349 (I.F. 4.9).**
- **Jha PK, Khan MI, Mishra A, Das P, Sinha KK. 2017. HAT2 mediates histone H4K4 acetylation and affects micrococcal nuclease sensitivity of chromatin in Leishmania donovani. PLoS ONE 12(5):e0177372 (I.F. 3.0).**
- **Kumari R, Khan MI, Bhowmick S, Sinha KK, Das N, Das P. 2017. Self-Assembly of DNA-Porphyrin Hybrid Molecules for the Creation of Antimicrobial Nanonetwork, Journal of Photochemistry & Photobiology 172 28-35 (I.F. 3.0).**

## Paper Communicated: 01

- **Mishra A, Sagar A, Kumari B, Khan MI, Kumar A, Das S, Das P, Ashish, Das P and Sinha KK. The discovery of novel inhibitors of the DNA repair activity of Leishmania donovani Uracil DNA glycosylase by Ligand-based virtual screening. EJMC 2018**