



**Dr. Ranjit Kumar**  
**Assistant Professor**

---

**Contact Details:** 7004842921

**Academic Qualification:** M.Sc, Ph.D

**Positions Held:** **Scientist -I** at Mahavir Cancer Institute and Research Centre, Patna from 1<sup>st</sup> August 2007 to 13<sup>th</sup> January 2020.

**Specialisation:** **Cell and Molecular biology**

**Research Interest:**

- > Toxicology,
- > Cytogenetics
- > Drug delivery using active ingredients of medicinal plants for cancer and diabetes treatment.
- > Microbial degradation of heavy metals including arsenic and genomic analysis of bacteria.

**Publications:**

1. Rahman MS, Kumar A, **Kumar R**, Ali M, Ghosh AK, Singh SK. Comparative quantification study of arsenic in the groundwater and biological samples of simri village of Buxar District, Bihar, India. Indian J Occup Environ Med 2019;23:126-32.
2. Iqbal A., Singh A.K., Singh S.K., Ali M.,Kumar A and **Kumar R** (2019): COMPARATIVE NEPHROPROTECTIVE EFFECT OF CINNAMOMUM CASSIA AND ZINGIBER OFFICINAL ON DIABETIC RAT; Indian Journal of Applied Research, Vol-9, Issue - 12, pp-55-56 {ISSN No. 2249 - 555X}DOI : 10.36106/ijar
3. Rahman SMD, Kumar A, **Kumar R**, Ali M, Ghosh AK, et al. (2019) Hematological and Free Radicals Changes among People of Arsenic Endemic Region of Buxar District of Bihar, India. Int J Pub Health Safety 4: 178 pp-2-8

4. Pramod Shankar, Arun Kumar, **Ranjit Kumar**, Mohammad Ali and Sudhir Kumar Srivastava (2019) AMELIORATING EFFECT OF *CURCUMA LONGA* ON STREPTOZOTOCIN INDUCED NEPHROTOXICITY IN SWISS ALBINO MICE; World Journal of Pharmaceutical Research, Vol-8, Issue - 9, pp-1063 - 1073
5. Kumar A, Rahman MS, **Kumar R**, Ali M, Niraj PK, Srivastava A, *et al.*(2019) Arsenic contamination in groundwater causing impaired memory and intelligence in school children of Simri village of Buxar district of Bihar. Journal of Mental Health and Human Behaviour, Published by Wolters Kluwer - Medknow- Accepted
6. Arun Kumar, Mohammad Ali, **Ranjit Kumar**, Md. Samiur Rahman, Abhinav Srivastava, Nirmal K. Chayal, Vivek Sagar, Ritu Kumari, Sana Parween, Rishav Kumar, Pintoo Kumar Niraj, Gautam Anand, Sushil K. Singh, Ashok K. Ghosh (2019) High Arsenic Concentration in Blood Samples of People of Village Gyaspur Mahaji, Patna, Bihar Drinking Arsenic-Contaminated Water, Exposure and Health, Springer
7. Rupam S, **Kumar R**, Kumar A and Ghosh A; PROTECTIVE EFFECTS OF *WITHANIA SOMNIFERA* AND *CURCUMA LONGA* ON CALCIUM ION AND UTERUS OF ENDOSULFAN EXPOSED MICE : World Journal of Pharmaceutical Research, Volume 7, Issue 13, 951-964 {ISSN 2277- 7105 }
8. **Kumar R**, Kumari P , Kumari S , Kumar A , Ali M and Ghosh A, (2018): CYTOMODULATORY EFFECT OF LACTOBACILLUS SPOROGENES ON OVARY OF ARSENIC EXPOSED MICE, Int. J. Adv. Res. 6(1), 1155-1164{**ISSN: 2320-5407**}
9. Aman A.K , Singh R.K., **Kumar R** and Ghosh A. K. (2018) EFFECT OF HIGH ENERGY BALL MILLING GRINDING ON PHYSICO-CHEMICAL, MORPHOLOGICAL AND OPTICAL PROPERTIES OF CURCUMA LONGA NANOPARTICLES POWDERS, IJPSR, 2018; Vol. 9(2): 672-677. {ISSN: 0975-8232}

10. **Kumar R**, Kumari S, Kumari P, Kumar A, Ali M, Niraj P.K. and Ghosh A., (2017): In vitro elimination of arsenic from water through *Lactobacillus sporogenes*; European Journal of Pharmaceutical and Medical Research,4(6), 581-585
11. **Kumar R**, Kumari P , Kumari S , Kumar A , Ali M and Ghosh A, (2017): Removal of arsenic from arsenic contaminated water through *Lactobacillus sporogenes*; World Journal of Pharmaceutical and Life Sciences, Vol. 3, Issue 4, 236-239{ISSN 2454-2229 }
12. **Kumar R**, Kumari P , Kumari S , Kumar A , Ali M and Ghosh A, (2017): Hepatoprotective effect of *Lactobacillus sporogenes* against arsenic induced toxicity in *mus musculus*: World Journal of Pharmaceutical and Medical Research;3(8), 245-249{ISSN 2455-3301}
13. Navin S, Jha J, Abhinav, Kumar A, Ali M, Ghosh A and **Kumar R**, (2017): Hepatoprotective effect of *Nigella sativa* on diabetic mice; Int. J. Adv. Res. 5(2), 181-188 ISSN: 2320-5407}
14. Navin S, Jha J, Abhinav, Kumar A, Ali M, Ghosh A and **Kumar R**, (2017):Comparative hypoglycemic and nephroprotective effect of *Tinospora cordifolia* and metformin on alloxan induced diabetic mice World Journal of Pharmaceutical and Medical Research; 3(3), 89-92. {ISSN 2455-3301}
15. Abhinav, Navin S, Shankar P, **Kumar R**, Ali M, Verma S.K, Ghosh A.K., Kumar A, (2017); ARSENIC CONTAMINATION OF GROUNDWATER AND HUMAN BLOOD IN VAISHALI DISTRICT OF BIHAR, INDIA: HEALTH HAZARDS. Int. J. of Adv. Res. 5 (8). 2092-2100] (ISSN 2320-5407).
16. Kumar A, **Kumar R**, Rahman M, Iqbal M, Ali M, Niraj PK, Anand G, Shankar P, Abhinav, Ghosh AK. Ground water arsenic contamination: A local survey in India. Int J Prev Med 2016;7:100.
17. Abhinav A, Navin S, Kumar A, **Kumar R**, Ali M, et al.

(2016) Prevalence of High Arsenic Concentration in Darbhanga District of Bihar: Health Assessment. *J Environ Anal Toxicol* 6: 410. doi: 10.4172/2161-0525.1000410

18. Kumar A, **Kumar R**, Rahman MS, Iqbal M, Ali M, Niraj PK, Anand G, Prabhat K., Abhinav & Ghosh A.K. (2016) : Ground water arsenic contamination: A local survey in India. *Int J Prev Med* ;7:100. PMID: 27625765, PMCID: PMC4995846, DOI: 10.4103/2008-7802.188085 {eISSN: 2008-8213}
19. Kumar A., **Kumar R.**, Ali M., Gahlot V & Ghosh A.K. (2016) : Groundwater Arsenic poisoning in Buxar district of Bihar. Proceedings of the 6<sup>th</sup> International congress on arsenic in the environment, Stockholm, Sweden, 19-23 June 2016, *Arsenic Research and Global Sustainability As2016*, Taylor & Francis group, London, 378-379. {ISSN: 2154-6568}
20. Ali M, Rizwi T.F, Razauddin M, Jahan T, Naz Z, Akhtar M.S, **Kumar R**, Shanker P and Kumar A (2016) Cellular Immunity of Ashwagandha Against Doxorubicin Toxicity: *International Journal of Current Research*, Vol-3, Issue -7 pp - 33847 - 33849
21. Abhinav S, Navin S., Verma S.K., **Kumar, R.**, Ali M., Kumar A & Ghosh A.K. (2016) : Groundwater and blood samples assessment for arsenic toxicity in rural population of Darbhanga district of Bihar, India., Proceedings of the 6<sup>th</sup> International congress on arsenic in the environment, Stockholm, Sweden, 19-23 June 2016, *Arsenic Research and Global Sustainability As2016*, Taylor & Francis group, London,418-420. {ISSN: 2154-6568}
22. **Kumar R**, Gahlot V, Ali M, Akhtar S and Kumar A. (2016) : Genotoxic Effect of Arsenic on chromosome structure of Mice. *European Journal of Pharmaceutical and Medical Research*. 3(4): 224-227). {ISSN: 3294-3211}. SJI.F.- 3.628

23. Kumar B, Kumar A, Ali M and **Kumar R** (2016) : Phytoremedial effect of *Withania somnifera* against endosulfan induced toxicity in sertoli cells of mice. *World Journal of Pharmaceutical and Life Sciences*, 2(5): 102-110. {ISSN 2454-2229}
24. Ali M, Alam SP, Kumar S, Anupam, **Kumar R**, Kumar A. (2016) : Does blood pH change in cancer patients? *International Journal of current Science*. 8(04):29543-29544. {ISSN: 0975-833X}
25. **Kumar R**, Kumari R., Kumar A., Ravi V.K. and Ali M (2016) : In Vivo Elimination of Arsenic through Lactobacillus sporogenes. *Int. J. Adv. Res.* 4(8), 1723-1728. {ISSN: 2320-5407}
26. Rani R, **Kumar R.**, Trivedi V., Singh U, Chauhan R., Md Ali M. and Kumar A. (2016): Age, Parity and stages of cervix cancer: A hospital Based study. *Br J Med Health Res.* 2016;3(4) {ISSN: 2394-2967}
27. Rizvi T. F., Razauddin M., Rahman M. S., Jahan T., Naz Z., **Kumar R.**, Kumar A. and Ali M.(2016): Immunomodulatory effect of Ashwagandha against Doxorubicine toxicity; *EJPMR* 3 (7) pp- 463 - 467. {ISSN: 2394 - 3211}
28. Ali M, Tarique FR, Razauddin M, Jahan T, Naz Z, Akhter MS, **Kumar R**, Shankar P and Kumar A (2016) : Cellular immunity of Ashwagandha against doxorubicin toxicity., *International Journal of current Research.*, 8(7) : 33847-33849. {ISSN: 0975-833X}
29. Kumar A, Ali Md, Rahman S Md, Iqbal A Md, Anand G, Niraj P.K, Abhinav Srivastava, **Kumar R** & Gahlot V. (2016) : Measurement of high levels of arsenic exposure in Tilak Rai Ka Hatta Village of Buxar district: A comparison of water and blood arsenic concentrations. *Journal of Groundwater for sustainable Development (Manuscript No. GSD-S-16-*

30. Gahlot V and **Kumar R (2016)**: Epidemiology of cervical cancer in state of Bihar India: Hospital based study; British Journal of Medical and Health Research,2016;3(9)pp - 1 - 8{ISSN: 2394-2967}
31. Kumar, A.,**Kumar, R**, Rahman, MS., Iqbal,A., Anand,G., Niraj,P.K. & Ali, M. (2015) : Phytoremedial effect of *Withania somnifera* against arsenic-induced testicular toxicity in Charles Foster Rats. *Avicenna Journal of Phytomedicine*, 5 (4) : 355-364. **{ISSN: 2228-7949}**
32. Kumar, A., Bala,R., Bano, F., **Kumar,R**& Ali,M. (2015): *Embllica officinalis* protects against Sodium arsenite induced hepatotoxicity & nephrotoxicity in rats, *International Journal of Sciences* 03(2015):47-55. **{ISSN: 2305-3925}**
33. Kumar, A., Ali, M., Rahman, MS., Iqbal,A., Anand,G., Niraj,P.K. &**Kumar, R**. (2015) : Antidote effect of Plants of Himalayan Sub- origin against Arsenic Induced Toxicity. *Journal of Biological and Chemical Research*, 2(2) :99-109.**{ISSN: 2312-0088}**
34. Kumar A, Ali Md, Rahman S Md, Iqbal A Md, Anand G, Niraj PK, Shankar P and **Kumar R** (2015);Ground Water Arsenic Poisoning in "Tilak Rai Ka Hatta" Village of Buxar District, Bihar, India Causing Severe Health Hazards and Hormonal Imbalance: J Environ Anal Toxicol 2015, 5:4 **{ISSN: 2161-0525}**
35. **Kumar R**, Trivedi V, Kumari A, Rani R, Chauhan R, Ali M, Singh M and Kumar A. (2015): Incidence of Breast Cancer and ABO Blood group: A hospital based study. *American Journal of Pharmacy and Health Research*, 3(4): 47-53. **{ISSN 2321-3647}**

36. Ali, M., Rizvi, T.V., Alam, S.P., Ali, M.C., **Kumar, R.&Kumar, A.**(2015): Immunomodulatory effect of of *Withania somnifera* (Ashwagandha) on Cyclophosphamide Induced Toxicity in Rats. *American Journal of PharmTech Research*, 5(3):638-645. **{ISSN: 2249-3387}**
37. **Kumar R.**, Kumar S., Kumar N., Ali M and Kumar A. (2015) : Hepatoprotective and Hypoglycemic Effect of *Aloe vera* on Streptozotocine Induced Diabetic Mice, 3(3): 137-144. **{ ISSN: 2349-7203}**
38. Ali M. , Shikha C, Laxmi K, Md. Seemab A, Tarique F R, **Kumar R& Kumar A.** (2015):Therapeutic Study of Saffron against Doxorubicin Toxicity in the Management of Cancer Chemotherapy; *International Journal of Advanced Research* (2015), Volume 3, Issue 9, 874 - 878 **{ISSN - 2320 - 5407}**
39. **Kumar R**, Ali M, Kumar A and Gahlot V (2015); Comparative bioremedial effect of *Withania somnifera* and *Curcuma longa* on ovaries of pesticide induced mice; *European Journal of Pharmaceutical and Medical Research*, 2015,2(7), 249-253**{ISSN - 3294 - 3211}**
40. Trivedi V, **Kumar R**, Rani R, Kumari A, Chauhan R, Kumar.A and Ali M (2015): Correlation of Estrogen and Progesterone receptor expression in Breast Cancer; *IOSR Journal Of Pharmacy*, Volume 5, Issue 11 (November 2015), PP. 39-42**{ ISSN: 2319-4219}**
41. **Ranjit Kumar**, Asif Iqbal, Arun Kumar Singh, Samiur Rahman, J.K. Singh, A. Nath, Md Ali and Arun Kumar (2014); Hypoglycemic Effect Of Zingiber officinale On Hepatocytes Of Alloxan Induced Charls foster Rats *Int. J. of Adv. Res.* **2** (9).198 - 208**{ISSN 2320-5407}**

42. **Kumar, R.**, Iqbal,M.A, Singh,A.K., Nath,A., Singh, J.K., Ali, M. and Kumar,A.(2014): Hypoglycemic and Nephroprotective effect of *Cinamomum cassia* on alloxan induced diabetic mice. *International Journal of Diabetes Research* 3(3): 36-40. **{ISSN: 2163-1646}**.
43. Ali M, Rizvi T.F., Zeba Perveen P, Gourango Chandra Mishra G.C., **Kumar R**& Kumar A. (2014): Lipid Peroxidation as a Biomarker for Exposure of Pesticides; *International Journal of Advanced Research*, Volume 2, Issue 9, pp - 717-720**{ISSN 2320-5407}**
44. Ali M, Rizvi T.F., **Kumar R**, Singh J.K. and Kumar A. (2014): Leaching of plastic into hot tea from plastic cups; *Elixir Food Science* 75, pp - 27631-27633 **{ISSN - 2229 - 7120}**
45. Kumar A, Suman S, **Kumar R**, Singh J.K, Ali M (2014): Hepatoprotective effect of edible Oyster mushroom *Pleurotus cornucopiae* against Sodium Arsenite induced hepatotoxicity in rats; *International journal of phytomedicine* 6 (2014) pp -275-279 **{ISSN - 0975 - 0185}**
46. Anshupriya, **Ranjit Kumar\***, Md Ali and Arun Kumar (2014): Curcuma longa restores sub-cellular structures of uterus of chloropyrifos exposed mice, *International Journal of Biological & Pharmaceutical Research*. 2014; 5(10): 798-803. **{ISSN 2229-7480}**
47. Suman,S, **Kumar, R.**, Singh,J.K., & Ali, M. Kumar, A., (2014) Phytoremedial effect of *Pleurotus cornucopiae* (Oyster Mushroom) against Sodium Arsenite induced *Toxicity* in Charles Foster Rats. *Journal of Pharmacology and Pharmacy*.5, 1106-1112. **{ISSN 2157- 9431}**
48. Kumar, A., Suman,S, **Kumar, R.**, Nath,A., Singh,J.K., & Ali, M. (2014) Hepatoprotective effect of edible Oyster mushroom *Pleurotus cornucopiae* against Sodium Arsenite induced hepatotoxicity in rats. *International Journal of Phytomedicine*, 6 (2014)



pp -275-279. **{ISSN: 0975-0185}**.

49. Kumar, A., Kumari, J., Kumar, H., Nath, A., Singh, J.K., Ali, M. & **Kumar, R.** (2014) : Hepatoprotective and antioxidant effect of *Azolla filiculoides* on Profenofos induced hepatotoxicity in Swiss albino mice. *Caribbean Journal & Technology* ; (2) : 372-377. **{ISSN 0799-3757}**
50. **Kumar, R.**, Kumari, S, Kumari, A, Ali, Md., Kumar, A, Nath A and Singh J.K. (2014): Hepatotoxic vs nephrotoxic potential of chlorpyrifos on swiss albino mice. *World Journal of Pharmaceutical Research*, 3(2) 3055-3065. **{ISSN 2277-7105}**
51. Ali, M, Shikha, Ahmed, S.S, **Kumar, R.**, Singh, J.K. and Kumar A. (2014) : Impact of *Ganoderma lucidum* on Carbon Tetra Chloride (CCl<sub>4</sub>) induced hematological profiles of mice. *World Journal of Pharmaceutical Research*; 3(3) : 4520-4526. **{ISSN 2277-7105}**
52. Ali, M, Shikha, Ahmed, S.S, **Kumar, R.**, Singh, J.K. and Kumar A. (2014) : Rejuvenating Consequence of *Ganoderma lucidum* on Cellular Integrity and function of CCl<sub>4</sub>. *Int.J.Curr.Microbiol. App.Sc.* 3(5): 142-147. **{ISSN: 2319-7706}**
53. **Kumar, R.**, Kumar, A., Ali, M., Nath, A., and Singh, J.K. (2014) : Evaluation of Nephrotoxic Effect of Endosulfan on kidney of *Cavia porcellus*. *Am. J. Pharm Tech Res.*; 4(3) 795-804. **{ISSN: 2249-3387}**
54. Kumar, A., Ali, M., Nath, A., Singh, J.K., Srivastava, S.K. and **Kumar, R.**, (2014) : Endosulfan exposure causes neoplastic changes in the liver cells of mice. *Open Journal Pathology*; 4, 86-93. **{ISSN 2164-6775}**
55. Kumar, A., Ali, M., Kumari, J., Singh, J.K. and **Kumar, R.** (2014) : Phytoremediation by *Azolla filiculoides* against Profenofos induced nephrotoxicity on Swiss albino mice. *Journal of Pharmacology and Toxicology*; 9(2):97-104. **{ISSN: 1816-496X}**.
56. **Kumar, R.** Singh, JK, Mishra, M., Nath, A., Ali, M.

- and Kumar, A. (2014): Early pregnancy and risk of breast cancer in women of North East India. *Int. Journal of Elixir- Physiology and Anatomy*. 72: 25324-25325. **{ISSN: 2229-0712}**
57. Dutta, K., Ali, M., Najam, A., **Kumar, R.** & Kumar, A (2014) : Ameliorative effect of seed extract of *Pterocarpus santalinus* on Coragen induced haematological alterations and serum biochemical changes in Charles Foster rats; *Journal of Toxicology and Environmental Health Sciences*; 6(12):194-202. **{ISSN: 2006-9820}**
58. Bala, R., **Kumar, R.**, Bano, F., Ali, M. & Kumar, A. (2014) : Restorative effect of *Curcuma longa* on arsenic-induced nephrotoxicity in rats. *Innovations in Pharmaceuticals and Pharmacotherapy*. 2 (4), 486-490. **{ISSN: 2321-323X}**
59. **Kumar, R.**, Ali, M. & Kumar, A (2014) : Nephroprotective effect of *Cuminum cyminum* on chlorpyrifos induced kidney of mice. *Advanced Journal of Pharmacie and Life science Research*. 2;4:46-53. **{ISSN: 2321-323X}**
60. Kumar, A., Sharma, B., Ali, M., **Kumar, R.**, Nath, A. and Singh, J.K.(2013) : *Momordica charantia* protects the liver from hyperglycemia induced toxicity in Swiss albino mice. *Open Access Scientific Reports OMICS group Online Journal*. 1(1) : 1-3. **{ISSN: 2155-6156}[Impact factor - 3.74].**
61. **Kumar, R.**, Ali, M., Singh, J.K., Nath, A. and Kumar, A. (2013) : Bioremedial effect of *Withania somnifera* on ultra-structure of sertoli cells of endosulfan exposed mice. *European Journal of Toxicological Sciences*, 1 (2013), No. 1, 24-34). **{ISSN 2052-5230}**
62. **Kumar, R.**, Kumari, A., Singh, J.K., Nath, A., Ali, M., Sinha, S and Kumar, A. (2013) : Protective Effect of Zingier officinale on Spleen of Diabetic Guinea Pig. *International Journal of Pharmaceutical Science*

*Invention*; 2(3) : 32-37. **{ISSN: 2319 - 6718}**

63. Singh, S.K., Prakash,V., Kumar, A., **Kumar, R.** and Ali, M. (2013) : In vivo - lethal and cytotoxicity assessment of *Trichosanthes cucumerina*. *International Res. J. of Pharmacy*; 4(4) : 185-188. **{ISSN: 2230 - 8407}**
64. Kumar, A., Dutta, K., Najam, A., Nath, A., Singh, J.K., Ali, M and **Kumar, R.** (2013): Coragen causes hematological alterations in Charles Foster Rats. *European Journal of Toxicological Sciences*, 2013 (4): 1-7. **{ISSN: 2052-5230}**
65. Kumar, A., Ali, M., **Kumar, R.**, Suman,S., Kumar, H., Nath,A., Singh,J.K. and Kumar,D. (2013) : *Withania somnifera* protects the haematological alterations caused by Sodium Arsenite in Charles Foster rats. *International Journal of Research in Ayurveda & Pharmacy (IJRAP)* 4 (4) : 491-494. **{ISSN 2229-3566}**
66. Ali, M., **Kumar, R.**, Nath, A., Singh, J.K.,and Kumar, A. (2013) : CytoprotectiveEffectOfAntioxidantOnEndosulfanInducedArchitectureOfSpermatozoaInMice:ATransmissionElectronMicroscope(Tem)View. *International Journal of Research in Ayurveda & Pharmacy (IJRAP)* 4 (4) : 514-518. **{ISSN 2229-3566}**
67. Ali, M., Khan, S.A., Dubey,P., Nath,A., Singh, J.K., **Kumar., R.** and Kumar, A. (2013) : Impact of arsenic on testosterone synthesis pathway and sperm production in mice. *Innovative Journal of Medical and Health Science*, 3: (4) 185- 189. **{ISSN 2277-4939}**
68. Anshupriya, **Kumar, R.**, Sinha, P.,Nath, A., Singh, J.K., Ali, M., and Kumar,A. (2013) : Restorative effect of *Curcuma longa* on estrogen and uterus of chlorpyrifos exposed mice. *World Journal of Pharmaceutical Research*, 2(5) : 1731- 1744. **{ISSN 2277-7105}**
69. **Kumar, R.**, Khan, S.A., Dubey, P., Nath, A., Singh, J.K., Ali, M. and Kumar,A. (2013) : Effect of arsenic exposure on testosterone level and

spermatogonia of mice. *World Journal of Pharmaceutical Research*, 2(5) 1524-1533. **{ISSN 2277-7105}**

70. **Kumar, R.**, Singh, J.K., Nath, A., Ali, M., and Kumar, A. (2013) : Effect of *Withania somnifera* on Estrogen, Cholesterol and Subcellular structure of ovary of chlorpyrifos exposed mice. *Carib.J.Sci.Tech*, (1): 061-069. **{ISSN 0799-3757}**
71. Ali, M., **Kumar, R.**, Nath, A., Singh, J.K. and Kumar, A. (2013) : Transmission Electron Microscopic study of Endosulfan induced architecture of spermatozoa in mice. *International Journal of Pharmaceutical and Chemical Sciences*. 2(4) : 1765-1769. **{ISSN 2277-5005}**.
72. **Kumar, R.**, Das, S., Nanda, I., Kumar, A., Ali, M., Nath, A. and Singh, J.K. (2012) : To study bioremedial effect of *Withania somnifera* on sperm count and seminiferous tubules of Endosulfan exposed mice. *Global J Trad Med System*; 1(1): 16-20. **{ISSN 2319 - 8761}**
73. **Kumar R.**, Nanda I., Das S., Kumar A., Ali M., Nath A., and Singh J.K., (2012); Bioremedial impact of *Curcuma longa* on uterus of pesticide exposed mice; *International Journal of Ayurveda and Pharmacy*, 3(4) : 542-546. **{ISSN 2277-4343}**
74. **Kumar R.**, Kumar S., Ali M. , Kumar A., Nath A., Lawrence K. and Singh J.K., (2012); Impact of stress on histology and biochemical parameters of liver and kidney of mice; *Innovative Journal of Medical and Health Science*, 2: 63 - 66. **{ISSN 0976-3333}**
75. **Kumar R.**, Gupta D., Mukul Somesh, Singh A.K., Kumar A., Ali Md., Nath A., Kumar A. & Singh J.K. (2012); Effect of *Curcuma longa* on Ovary of Endosulfan Exposed mice; *International Journal of Pharmaceutical & Biological Archives*; 3(3):617-62. **{ISSN 0976-3333}**
76. **Kumar R.**, Nandan A., Srivastava N., Singh J.K., Kumar A., Nath A., Ali M. and Ravikumar S. (2012); To study effect of endosulfan on Hepatocyte

of swiss albino mice; *Indo Global Research library*, 2(2) : 353-355. **{ISSN: 2249-4189}**

77. **Kumar R**, Kumar S., Ali M. , Kumar A., Nath A., Lawrence K., Pandit S. and Singh J.K., (2012); Bioremedial Impact of *Withania somnifera* on histology and biochemical parameters of Kidney of stressed mice; *Indo Global Research library*, 2 (2) : 349-352. **{ISSN: 2249-4189}**
78. **Kumar R**, Ali M., Singh J.K., Nath A. and Kumar A., (2012); Bioremedial impact of *Withania somnifera* on endosulfan exposed spermatozoa of mice; *IJPSR*, Vol. 3(5): 942-947. **{ISSN: 0975-8232}**
79. **Kumar R**, Priya A., Kumar A., Singh J.K., Nath A. and Ali M. (2012); Evaluation of effect of stress on cholesterol and intestine of mice; *Indo Global Research library*,; 2 (2) 289-292. **{ISSN: 2249-4189}**
80. Ali, Md., Mukul, S., Gupta D., Singh, A.K., **Kumar R.**, Nath, A., Singh, J.K. & Kumar, A. (2012) : Endosulfan Exposure Leads to Infertility in Male Mice. *Asian J. Exp. Biol. Sci.* vol. 3 (1): 124-128. **{ISSN : 0975 -5845}**
81. **Kumar. R.**, Singh, J.K., Ali, M. and Kumar, A. (2011) : Impact of Selenium on Microtubules Polymerisation of Spermatozoa of Endosulfan Exposed Swiss Albino Mice. *Journal of Life Sciences*. 5 (2011) 132-135. **{ISSN: 1934 - 7405}**
82. Singh., J.K., Nath, A., Kumar, A. Ali, M. and **R. Kumar.** (2011): Study on the effect of endosulfan on testosterone level and seminiferous tubule of testis of mice. *World Journal of Environmental Pollution*. 1 (1): 01-04. **{ISSN : 2222-1360}**
83. Singh J. K., Mishra M., Nath A., Kumar A., Ali M. and **Kumar R.** (2011); Male Vs Female Child Ratio Determines Chances of Cervix Cancer in Women; *Academic Journal of Cancer Research* 4 (2): 35-37. **{ISSN 1995-8943}**
84. Kumar, A., Singh, J.K, Ali, M., **Kumar R.**, Nath, A., Singh, J.K., Roy, A.K. & Roy, S.P. (2011) : Evaluation of

*Cuminum cyminum* and *Coriandrum sativum* on Profenofos induced nephrotoxicity in Swiss albino mice. *Int. Journal of Elixir - Applied Botany*, (39): 4771-4773. **{ISSN: 2229-0712}**

85. Kumar, A., **Kumar, R.**, Kumar, N., Nath, A., Singh, J.K., Ali., M.(2011) : Protective effect of *Cuminum cyminum* and *Coriandrum sativum* on Profenofos induced Liver toxicity., *International Journal of Pharmaceutical & Biological Archives* ; 2(5):1405-1409. **{ISSN 0976-3333}**
86. **Kumar, R.**, Kumar, A., Singh, J.K., Nath, A. and Ali, M. (2011) : Impact of stress on beta cells of pancreas of mice. *Indo global Res J Pharmaceutical Sciences*, Vol-1, Issue - 3; 140-143. **{ISSN: 2249-4189}**
87. Singh J. K., Nath A., Mishra M., Jain P., Kumar A., Ali M. and **Kumar R.** (2011); Early marriage and premenopaus as a risk factor for breast cancer; *Elixir Human Physiology*. 38, 4232 - 4234. **{ISSN: 2229-0712}**
88. **Kumar R.**, Priya A., Kumar A., Ali M. , Nath A. and Singh J.K. (2011); Increased epinephrine concentration during stress in relation to diabetes in mice; *Elixir Hor. & sig.* 36, 3058 - 3061. **{ISSN: 2229-0712}**
89. **Kumar, R.**, Kumar,A., Singh, J.K., Nath, A. and Ali, M. (2011) : To study bioremedial impact of Curcumin on chloropyrifos induced kidney damage in mice. *Int. Journal of Comprehensive Pharmacology (Pharmacia Globale)* .2(8) : 1-4. **{ISSN: 0976-8157}**
90. Ali, M., Singh, J.K., **Kumar, R.**, Nath,A. and Kumar, A., (2011) : Ameliorating effect of *Emblica officinalis* on testosterone and sperm toxicity of endosulfan induced mice. *Int. Journal of Elixir- Applied Botany*. 36: 3339-3342. **{ISSN: 2229-0712}**
91. Rupam S., **Kumar R.**, Nath A., Rani P. and Singh J.K.(2011); Pesticide caused disruption of corpus luteum leading elevated level of estrogen in mice; *Asian J of Sci & Technology*, Vol: I, Issue - 4, pp-62 -

64. {ISSN: 0976-3376}

92. Singh, J.K., Nath, A., Ali, M., Kumar, A. and **Kumar, R.** (2010) : Endosulfan exposure causes ovarian malignancy in swiss albino mice. *World J. Envir. Pollut.* 1(1) 01- 04. {ISSN : 2222-1360}
93. Singh, J.K., Nath, A., Kumar, A., Ali, M. and **Kumar, R.** (2010) : Evaluation of impact of endosulfan on histopathological alteration of kidney of mice. *Int. Journal of Toxicological and Pharmacological Research*, 3(3):8-11. {ISSN: 0975-5160 }
94. Singh, J.K., Ali, M., **Kumar, R.**, Nath, A. & Kumar, A. (2010): Possible occurrence of apoptosis in Endosulfan induced testicular toxicity in mice. *J. Ecophysiol. Occup. Hlth.* (10) : 43-47. {ISSN: 0972-4397}
95. K. Madhavi and **Ranjit Kumar** (2010); IN VIVO TOXICOLOGICAL EVALUATION OF ORGANOPHOSPHATE PESTICIDE ON FEMALE ALBINO MICE: THERAPEUTIC EFFECTS OF CURCUMIN ; International Journal Pharmaceutical Sciences & Research (IJPSR), Vol. 1 (9), pp - 86-92 {ISSN: 0975-8232}
96. Alok A.K., Mistry R. and **Kumar R** (2010); Co-relative study between pesticide caused hormonal imbalance and histopathological alteration in ovary of mice: *J. Haematol & Ecotoxicol*, 5 (1), pp-42-46. {ISSN: 0973-4635}
97. **Kumar, R.**, Mishra, M., Singh, J.K., Nath, M., Ali, M. and Kumar, A. (2009): Evaluation of the significance of CA-125 Levels in the Patients with epithelial Ovarian Cancer in Bihar, India. *Int. J of Clinical Ovarian Cancer*, (2) : 118-120. {ISSN: 1941-4390}
98. **Kumar R.**, Rani P., Kumar B., Singh J.K., Ali M., Kumar A. & Nath A. (2009) : Endosulfan exposure causing acrosome malformation leading infertility in Swiss albino mice. *J. Hematol. & Ecotoxicol.* 4(2) : 51 - 55. {ISSN: 0973-4635}
99. Ali M., Singh J.K., **Kumar R**, Kumar A., Srivastava S.K., Paul D.K. and Nath, A. (2009) : Anomalies in sperm and hormonal imbalance (Testosterone) of *Mus*

*musculus* due to Endosulfan exposure. *J. Hematol. & Ecotoxicol.* 4(2) : 30 - 35. {ISSN: 0973-4635}

100. Nath A, **Kumar R.**, (2007) : Interference of Endosulfan on Golgi complex action during acrosome formation in spermatozoa of mice. *Embryotalk*, Vol. 2. pp; 72-76.
101. Sahay R.,**Kumar R.**, Nath. A (2007) : Transmission electron microscopic study of ovarian follicular degeneration due to endosulfan treatment in Swiss albino mice, *Embryotalk*, Vol. 2; pp: 67-71.

Research Completed/Ongoing:

Projects

1. **Co-Principal Investigator of major project of DST- SSTP, New Delhi, Government of India** "Assessment of Arsenic in Simri Village of Buxar District of Bihar" (from October 2013 - September 2014).
2. **Co-Principal Investigator of major International project of DST- UKIERI, "NUTRISAM"** Nature and Nurture of Arsenic in collaboration with **Salford University, U.K.** (from April 2017).
3. **Principal Investigator** of Major Project of Indian Council of Medical Research on Co-relation of pesticide exposed karyotype variation and reproductive disorders in Swiss albino mice at MCSRC, Patna (From September 2019 - August 2020)

M.Phil. Supervised:

Nil

Ph.D. Supervised:

#### CO-SUPERVISED

1. **Smriti Rupam (2011)** Bioremedial effect of withania somnifera, emblica officinalis and curcuma longa on endosulfan exposed female reproductive organs, calcium ion and estrogen level in mice. Patna University, Patna.
2. **Sneha Naveen (2015):**To Study Hypoglycemic Effect Of *Nigella sativa* and *Tinospora cordifolia* in comparison to metformin of Diabetic Mice" L. N. Mithila University, Darbhanga.
3. **Sanjeev Ambasta(2016):** Effective of selected medicinal plants on genotoxicity and oxidative stress caused by arsenic, Patna University, Patna
4. **Preeti Kumari (2017) TilkaManjhi Bhagalpur University** - "Study of Hypoglycemic effect of *Cinnamomum cassia* and *Gingiberofficinale*in



diabetic mice “.

Ph.D. Supervising: Respected Sir, Nil

Kindly find the attachment and reply as soon as possible.

Participation  
Seminars/Conferences:

in

**A. NATIONAL :**

1. Presented Poster in **92<sup>nd</sup> Indian Science Congress Association**, Nirma University, Ahmedabad from January 3<sup>rd</sup> to January 7<sup>th</sup> 2005. Participated in poster presentation.
2. XIV Annual conference of **The Association of Gynaecological Oncologists of India** (AGOICON-2005), Patna by Mahavir Cancer Sansthan, 21 - 23, Nov, 2005.
3. Presented paper and poster in National Conference on **Environmental Education for Sustainable lifestyle**, 10<sup>th</sup> to 11<sup>th</sup> February 2006, Department of Zoology, Patna Women's College, Patna University, Patna.
4. Presented Poster in National Conference **ONCOLOGY - 2006 (XIV ISMPO & XII ISO) : Economising Cancer Care**, Mahavir Cancer Sansthan, Patna, 10<sup>th</sup> - 12<sup>th</sup> November, 2006.
5. National Conference on **“Recent advances and challenges in reproductive health research”** in **17<sup>th</sup> Annual meeting of the Indian society for the study of Reproduction and Fertility (ISSRF)**, (Organised by ICMR), New Delhi from 19<sup>th</sup> February - 21<sup>st</sup> February 2007. Participated in poster presentation.

6. Presented Poster in **2<sup>nd</sup> Bihar Science Congress**, Bihar Council on Science & Technology, Patna from 26<sup>th</sup> - 28<sup>th</sup> February 2007.
7. **XIII Annual Congress of the Society of Andrology**, National Institute of Health & family Welfare, New Delhi from 15<sup>th</sup> - 16<sup>th</sup> December, 2007.
8. Presented Poster in National Symposium **Scientific Foresight- 2007**, Department of Science & Technology, Govt. of Bihar at Patna from 22<sup>nd</sup> - 24<sup>th</sup> December, 2007.
9. Presented Poster in National Conference on "Recent trends in reproductive health research" in **18<sup>th</sup> Annual meeting of the Indian society for the study of Reproduction and Fertility (ISSRF)**, Hyderabad from 20<sup>th</sup> February - 22<sup>nd</sup> February 2008.
10. National Conference on **Palliative Care (IAPC-CME-2008)**, Mahavir Cancer Sansthan, Patna , 27<sup>th</sup> - 28<sup>th</sup> September, 2008.
11. Presented Poster in National Symposium **Scientific Foresight- 2008** at Patna from 20<sup>th</sup> - 22<sup>nd</sup> December, 2008.
12. National Conference of **Indian Co-operative for Oncology Network (ICON Meet- 2009)**, Mahavir Cancer Sansthan, Patna from 21<sup>st</sup>- 22<sup>nd</sup> April, 2009.
13. National Conference of **Indian Brachytherapy Society (IBSCON-2010)**, Mahavir Cancer Sansthan, Patna from 13<sup>th</sup> - 14<sup>th</sup> Feb, 2010.
14. Presented poster in National Symposium on **"Impact of Environmental Pollutants on Health & Fertility" (IEPHF- 2010)**, Mahavir Cancer Sansthan, Patna from 13<sup>th</sup> - 14<sup>th</sup> Feb, 2010.
15. Invited talk in National Seminar **"National Seminar on Applications of Biotechnology and Development of Bihar"**, B.I.T (Mesra), Patna Campus, Patna from 22<sup>nd</sup> - 24<sup>th</sup> Mar, 2010.
16. Participated in National Symposium " Nanotechnology - Present Prespect and Future Direction" (**NPPFD - 2011**), Mahavir Cancer Sansthan, Patna from 9<sup>th</sup> - 10<sup>th</sup> April, 2011.

17. Participated in ***“National Seminar on Genomics- 2012 (New Frontiers in Environmental Pollutants, Health & Application of Molecular Genetics)”***, Mahavir Cancer Sansthan & Research Centre, Patna from 21<sup>st</sup> – 22<sup>nd</sup> January, 2012.
18. Participated in ***“National Seminar of Breast Cancer Foundation of India : Beyond horizon”***, Breast Cancer Foundation- India, Patna from 04<sup>th</sup> – 05<sup>th</sup> August, 2012.
19. Participated in the ***National Symposium on Role of Molecular Diagnostics in Cancer Treatment***, Mahavir Cancer Institute and Research Centre, Patna on March-12<sup>th</sup>, 2015.
20. Participated in ICMR/DST Sponsored National Seminar on ***Emerging Trends in Diabetes Research & Management*** on 13<sup>th</sup> February 2017, Organised by National Institute of Pharmaceutical Education & Research (NIPER), Hajipur.
21. Invited speaker in National conference on Nano/Biotechnology, December 19-21, 2019 at Jawaharlal Nehru University (JNU), New Delhi

#### **B. INTERNATIONAL :**

1. Participated in ***International Congress on The Magestic River Ganga Health, Intigrity and Management***, Jointly Organised by PatnaUniversity Patna and Aquatic Ecosystem Health and Management Society, Canada, from 13 to 15 November, 2006.
2. ***2<sup>nd</sup> International Congress on Cervical Cancer***, organized by Mahavir Cancer Sansthan, Patna (India) in March 2007.
3. ***5<sup>th</sup> Biennial International Conference of “International Association of Hyperthermic Oncology and Medicine” IAHOMECON- 2008***, organized by Mahavir Cancer Sansthan, Patna (India), 16<sup>th</sup> – 17<sup>th</sup> Feb, 2008.
4. International Conference on ***Head & Neck Oncology***

- (ISHNO), MCSCON- 2008**, organized by Mahavir Cancer Sansthan, Patna (India), 5<sup>th</sup> – 6<sup>th</sup> April, 2008.
5. Presented Poster in International Conference on ***Radiation Biology & Translational Research in Radiation Oncology (ICRB- 2008)***, 9<sup>th</sup> Biennial Meeting of Indian Society for Radiation Biology (ISRB), Jaipur (India), 10<sup>th</sup> – 12<sup>th</sup> November 2008.
  6. Presented Poster in International Conference on ***Preventing Emerging Occupational and Environmental Risks in South Asia and Beyond***, MAMC, New Delhi from 17<sup>th</sup> – 19<sup>th</sup> December, 2009.
  7. Presented Poster in ***International conference of American Association for Cancer Research (AACR) on New Horizons in Cancer Research: Biology to Prevention to Therapy Conference***, Gurgaon, Delhi (NCR), India, November 2011.
  8. Oral Presentation in ***International Conference on Society of Pharmacovigilance***, NIMS University, Jaipur, Rajasthan, 08-10, December, 2012.
  9. Oral Presentation in ***International Conference and Exhibition on Traditional & Alternative Medicine***, Hyderabad, Andhra Pradesh, 09-11, December, 2013.
  10. Oral Presentation in ***International Conference on Indo Global Healthcare***, Organised by Omics Group, U.S.A., at New Delhi from 05-07, October 2015.
  11. ***Invited Speaker in "57th International Annual Conference of the Association of Microbiologists of India" International Symposium on "Microbes and Biosphere: What's New What's Next*** November 24-27, 2016, Guwahati University, Guwahati, India
  12. ***Invited Speaker in "58th International Annual Conference of the Association of Microbiologists of India"*** November 16-17, 2017, Lucknow Central University, Lucknow, India
  13. ***Invited Speaker University of Salford for Presentation Project data*** "August 28 to

September 02, 2017, UK

14. **Resource person** in workshop on Water quality tests, organized by PHED Govt. of Bihar and Wateraid on 27<sup>th</sup> December and 28<sup>th</sup> December 2017.

15. **Invited Speaker in “International Conference on Neutraceutical and Chronic Disease”** September 14-16, 2018, Rama Himalayan Cancer Institute, Dehradun, India.

16. **Invited Speaker University of Salford for Presentation on microbial degradation of arsenic in drinking water and project meeting** “September 01 to September 05, 2018, UK

**Membership of Learned Societies/  
Professional Bodies:**

1. **Life member** of Indian Science Congress association.

2. **Life member** of Journal of Haematology and Ecotoxicology.

3. **Life member** of Indian Society of Cell biology

**Awards & Honours Received:**

1) Awarded **Best Poster Presentation** in National Conference of ONCOLOGY- 2006 held at Patna, (Organised by Mahavir Cancer Sansthan), Patna, 09<sup>th</sup> - 12<sup>th</sup> November 2006.

2) Awarded **2<sup>nd</sup> prize for Poster Presentation** in National Symposium on **“Impact of Environmental Pollutants on Health & Fertility” (IEPHF-2010)**, Mahavir Cancer Sansthan, Patna from 13<sup>th</sup> - 14<sup>th</sup> Feb, 2010.

3) Awarded **Best Poster Presentation** in National Symposium on **“Environment and Health- 2017” (EH-2017)**, Mahavir Cancer Sansthan, Patna from 16<sup>th</sup> January, 2017.

**BOOKS PUBLISHED**

**Others:**

1) Ashok Ghosh, Jajati Mondal and Ranjit Kumar (2019): Arsenic contamination in groundwater and soil and its mitigation approach, Recent advances in Chemical Sciences and Biotechnology, New Delhi Publisher, ISBN: 978-93-85503-63-4, India

2) Ranjit Kumar, Arun Kumar & Mohammad Ali (2012) : Effect of *Curcuma longa* on Ovary of Endosulfan exposed mice. LAP Lambert Academic Publishing,

ISBN- 978-3-659—29027-5, Germany.