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RESEARCH WORK

1. Principal Investigator: DBT Project on “Aetio-Pathology and molecular epidemiology of bacterial and viral diseases associated with the respiratory problems of yak in the North Eastern Regions of India”
2. As Co-Principal Investigator: DBT Project on “Development of Infrastructural facilities of NRC on Yak”.
3. Worked as an associate in DBT project “Conservation and multiplication of germplasm of yak (*Poephagus grunniens L.*) and its hybrid using *in vitro* embryo production techniques ”

AWARDS AND HONORS

Part of the research team to produce Worlds first test tube Yak Calf named “**NORGYAI**”.

RESEARCH PAPERS

1. **Juwar Doley** , Lakshya Veer Singh, G. Ravi Kumar ,Aditya Prasad Sahoo Lovleen Saxena ,Uttara Chaturvedi, Shikha Saxena, Rajiv Kumar, Prafull Kumar Singh & R. S. Rajmani, Lakshman Santra & S. K. Palia, S. Tiwari, D. R. Harish, Arvind Kumar, G. S. Desai, Smita Gupta, Shishir K. Gupta and A. K. Tiwari. Canine Parvovirus Type 2a (CPV-2a)-Induced Apoptosis in MDCK Involves Both Extrinsicand Intrinsic Pathways. *Appl Biochem Biotechnol* 171(4), 2013
2. Prafull K Singh, **Juwar Doley**, Aditya P Sahoo, G. Ravi Kumar, Ashok K. Tiwari. Oncolytic viruses and their specific targeting to tumour cells. *Indian Journal of Medical Research* 136 (4), 571
3. Lovleen Saxena, U. Chaturvedi, Shikha Saxena, G.Ravi Kumar, A.P.Sahoo, Sudesh Kumar, **J.Doley**, R.S.Rajmani, Prafull, K. Singh, Rajiv Kumar and A. K.Tiwari (2011) Characterization and in-vitro expression of non-structural protein of Canine Parvo virus (CPV-sss2) in mammalian cell line. *Indian Journal of Experimental Biology* 49 (654-659)
4. R.S. Rajmani, **J. Doley**, P.K. Singh, Ravi Kumar, R. Barathidasan, Pawan Kumar, P.C. Verma and A.K. Tiwari. Induction of mammary gland tumour in rats using N-methyl-N-nitroso urea and their histopathology. *Indian J. Vet. Pathol.*, 35(2) : 142-146, 2011

5. Shikha Saxena, G. Ravi Kumar, Prafull Singh, Uttara Chaturvedi, Lovleen Saxena, Rajiv Kumar, A. P. Sahoo, **Juwar Doley**, R.S. Rajmani, Sudesh Kumar, Ashok K Tiwari Prokaryotic expression of Chicken Infectious anemia Apoptin protein and characterization of its Polyclonal antibodies for Oncolytic studies. Indian Journal of Experimental Biology **50** (325-331)

CHAPTER CONTRIBUTED TOWARDS BOOK

1. Prafull K Singh, **J. Doley**, A.P. Sahoo, Ravi Kumar, R.S. Rajmani and Ashok K Tiwari (2010). Viruses as anticancer agent. *Applied aspect of Biotechnology*. (Book chapter, Publisher: Indian Veterinary Research Institute; PP:)

TECHNICAL BULLETIN/TRAINING MANUAL/CHAPTERS/POPULAR ARTICLES

1. AP Sahoo, V.K. Saxena, RS Rajmani , , **J. Doley**, G. Ravi Kumar P K Singh, and Ashok K. Tiwari (2010) . **Molecular Tools for Diagnosis of Viral Diseases**. Summer School on “Recent advances in Molecular Diagnosis & control of important zoonotic diseases” organized by Division of veterinary Public Health,IVRI, Izatnagar sponsored by ICAR, New Delhi from 21- 30 September, 2010.
2. J Doley, M. Hussain, A.K. Bera, P. Chakravarty and D. Bhattacharya (2013). Biotechnology advances in Animal reproduction. Published by National Research Centre on Yak, Dirang, Arunachal Pradesh, Pp. 74-77
3. J. Doley, A.K. Bera, T.K. Biswas and D. Bhattacharya (2013). Transmission of diseases through semen in Yak. Published by National Research Centre on Yak, Dirang, Arunachal Pradesh, Pp. 78-83

INVITED LECTURES

1. VK Saxena, D. Thakuria, **J. Doley** & Ashok K. Tiwari (2009). Use of recombinant DNA Technology in the Diagnosis of bacterial infections. Presented at Short Course on ‘**Advances in Molecular Diagnosis of Important Bacterial Diseases of Animals**’ sponsored by ICAR. From September 15-24, 2009.
2. Invited lecture on “**Reproductive Biotechnology for Conservation of Threatened Animal resources with special Reference to Yak**”: Chakravarty, P., Deb, S.M., Das, P.J., Deori, S., Bora, B.K.D., Krishnan, G., **Doley, J.**, and Hussain, M. (Presented by Dr. P. Chakravarty on 17th Rajiv Gandhi University, Rono Hills, Doimukh, Arunachal Pradesh, University Rd, AR 791112.

OTHERS

ABSTRACTS:

1. Rajmani R.S., Saxena L., Singh P. K., **Doley J.**, Kumar Rajiv., Saxena S., Chaturvedi U., Sahoo A.P., Kumar Ravi., Kumar Sudesh, Chittlangia R.K., Verma P.C., Tiwari A. K. Enhancement of Oncolytic potential of HN gene of Newcastle Disease Virus and TNF-alpha by blocking NFkB and Akt Pathways: A strategy to combat cancer. Accepted for poster presentation by the scientific programme committee of 17th IBC (IUPAB) with Young Scientist Travel Award.
1. Rajmani R.S., Saxena L., Singh P. K., **Doley J.**, Kumar Rajiv., Saxena S., Chaturvedi U., Sahoo A.P., Kumar Ravi., Kumar Sudesh, Chittlangia R.K., Verma P.C., Tiwari A. K. Blocking Akt and NFkB Pathways in conjunction with HN gene of Newcastle Disease

Virus and TNF-alpha potentiates apoptosis –A new strategy to fight cancer. Oral presentation.

1. Rajmani R.S., Singh P.K., Saxena L., **Doley J.**, Kumar Rajiv., Saxena S., Chaturvedi U., Sahoo A.P., Kumar Ravi., Sudesh Kumar, Chittlangia R.K., Verma P.C., Tiwari A. K. Blocking of NF κ B pathway enhances Apoptosis of HeLa cells by HN gene of Newcastle disease virus and TNF- α genes- A new hope in cancer therapy- Accepted for oral presentation.
2. R.S. Rajmani, Prafull K Singh, **Juwar Doley**, A.P. Sahoo, G Ravi Kumar, Lovleen Saxena, Uttara Chaturvedi, Shikha Saxena, P.C. Verma and Ashok. K. Tiwari. Combined oncolytic effect of HN gene of Newcastle disease virus and TNF- α on chemically induced tumour in rats
1. R.S. Rajmani, Prafull K Singh, **Juwar Doley**, A.P. Sahoo, G Ravi Kumar, Lovleen Saxena, Uttara Chaturvedi, Shikha Saxena, P.C. Verma and Ashok. K. Tiwari. Synergistic effect of HN gene of NDV and TNF- α in cancer therapy
2. Prafull K Singh, Lovleen Saxena, Uttara Chaturvedi, **Juwar Doley**, R.S. Rajmani, P. Sahoo, G. Ravi Kumar, Shikha Saxena and Ashok K. Tiwari. Elucidation of molecular mechanism of apoptosis induced by Apoptin for development of novel viral oncotherapeutic agent.
3. Singh P.K., Chaturvedi U., Saxena L., **Doley J.**, Rajmani R.S., Saxena S., Ravi Kumar., Sahoo A.P., Palia S., Tiwari A. K. Chicken infectious anaemia apoptin induced death of HeLa cells is due to apoptosis rather than necrosis.
4. Rajmani R.S., Singh P.K., **Doley J.**, Ravi Kumar., Sahoo A.P., Chaturvedi U, Saxena L., Saxena S., Palia S., Tiwari A.K. Synergistic effect of HN protein of Newcastle disease virus and TNF- α in apoptosis of HeLa cells.
5. Saxena L., **Doley J.**, Singh P.K., Chaturvedi U., Rajmani R.S., Sahoo A.P., Saxena S., Ravi Kumar., Palia S., Tiwari A. K. Cloning, Amplification and Expression of Non Structural 1 (NS-1) gene of Canine parvovirus-2.
6. Kumar Rajeev, Chaturvedi U, Saxena L., Saxena S., Sahoo A.P., **Doley J.**, Ravi Kumar, Singh P.K., Rajmani R.S., Palia S., Tiwari A. K. Adaptation of Newcastle disease virus in HeLa cell line.
7. Saxena S., Sahoo A.P., Saxena L., Chaturvedi U, Ravi Kumar, Singh P.K., **Doley J.**, Rajmani R.S., Palia S., Kumar S., Tiwari A.K. A novel cell-penetrating RATH(Phe-Phe) peptide for its efficient delivery in cell lines by its DNA binding ability and nuclease protection assay ability.
8. Singh P.K., Saxena L., Chaturvedi U, **Doley J.**, Sahoo A.P., Ravi Kumar, Rajmani R.S., Saxena S., Palia S., Tiwari Ashok K.* Involvement of mitochondria in apoptin induced oncolysis of HeLa cells.
9. Rajmani R.S., Sahoo A.P., **Doley J.**, Singh P.K., Saxena L., Chaturvedi U, Saxena S., Ravi Kumar, Palia S., Verma P.C., Tiwari Ashok K.* Immune response to HN protein of Newcastle disease virus in DMBA induced tumor model of rats.
10. Sahoo A.P., Kumar S., Mishra P., Chindera K., **Doley J.**, Saxena S., Ravi Kumar, Rajmani R.S., Singh P.K., Chaturvedi U, Saxena L., Palia S., Tiwari Ashok K. Studies on cell penetrating ability of a rath peptide analog R31 in HeLa cell line.

11. Rajmani R.S., Singh P.K., Chaturvedi U, Saxena S ., Saxena L., **Doley J**, Sahoo A.P., Verma P.C., Ravi Kumar, Palia S., Tiwari Ashok K. Study of apoptotic potential of HN protein of newcastle disease virus in cultured HeLa cells.
12. Chaturvedi U, Saxena L., Ravi Kumar, Sahoo A.P., Saxena S., **Doley J**, Rajmani R.S., Singh P.K., Palia S., Tiwari Ashok K.* Newcastle disease virus (NDV) causes apoptosis in HeLa cells.
13. Saxena L., **Doley J**., Singh P.K, Chaturvedi U., Saxena S., Kumar Ravi, Sahoo A.P., R.S Rajmani, Kumar S, Tiwari Ashok K. NS1 induced oncolysis of HeLa cells - independent of death receptor mediated pathway.
14. **Doley J**, Sahoo A.P., Singh P.K., Rajmani R.S., Chaturvedi U, Saxena L., Saxena S., Palia S., Ravi Kumar, Tiwari Ashok K. Mitochondria play role in CPV-2 induced apoptosis in MDCK cells.
15. Prafull K Singh, Lovleen Saxena, Uttara Chaturvedi, Juwar Doley, **R.S. Rajmani**, P. Sahoo, G. Ravi Kumar, Shikha Saxena and Ashok K. Tiwari. Apoptin induced oncolysis is independent of caspase-8, caspase-12 and is mediated by caspase-9.
16. R.S. Rajmani, **Juwar Doley**, Prafull K Singh, A.P.Sahoo, Ravi Kumar, Lovleen Saxena, Uttara Chaturvedi, Shikha Saxena,P.C.Verma and Ashok k. Tiwari. Synergistic effect of HN gene of NDV and TNF- α in oncolysis of experimentally induced tumor in rats.
17. R .S. Rajmani, **Juwar Doley**, Prafull K Singh, Ravi Kumar, A.P. Sahoo, Lovleen Saxena, Uttara Chaturvedi, Shikha Saxena, P.C. Verma and Ashok. K.Tiwari Induction of mammary tumor in rats using N-methyl nitrosourea.
18. R .S. Rajmani, Prafull K Singh, **Juwar Doley**, Ravi Kumar, A.P. Sahoo, Lovleen Saxena, Uttara Chaturvedi, Shikha Saxena, P.C. Verma and Ashok. K.Tiwari. Assessment of Oncolytic potential of HN gene of NDV in DMBA induced Tumors in rats.

MEMBERSHIP IN PROFESSIONAL ORGANIZATION

1. Member of Biotechnology society, Bareilly, India
2. Member of Laboratory Animal Science Association of India (LASAI)
3. Member of Assam Veterinary Council