**Lok Raj Joshi**

Graduate Research Assistant

Department of Veterinary and Biomedical Science

College of Agriculture and Biological Science

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**EDUCATION**

**2017- Present- Doctor of Philosophy (Virology)**

Research: Vectored-vaccines for livestock viral diseases

**2015-2017- Masters in Biological Science (Virology): South Dakota State University, USA**

Thesis: Pathogenesis and genetic characterization of re-emerging picornavirus Senecavirus A

**2008-2013- Bachelor in Veterinary Science, Institute of Agriculture & Animal Science, Nepal**

Thesis: Prevalence of methicillin resistant *Staphylococcus aureus* (MRSA) in cattle in Pokhara, Nepal.

**PROFESSIONAL EXPERIENCE**

1. **Graduate Research Assistant, Infectious Disease Lab, Dept. of Vet and Biomedical Science, SDSU, USA (2015- Present)**

Cell culture, virus isolations, real time PCR, Next-generation sequencing, ELISA, western blotting, inflorescence microscopy, conducting animal experiments in swine

1. **Technical Officer, Dolphin Feeds Industry, Nepal (2013-2015)**

Formulation of cattle and poultry feeds, dairy and poultry farm visit, diagnosis and treatment of disease outbreaks on farms, providing livestock management training to the farmers

1. **Intern, Regional Veterinary Laboratory, Pokhara, Nepal (2013-2014)**

To carryout regular tests in the virology, bacteriology and parasitology labs, bovine mastitis pathogen isolation and antibiotic sensitivity tests, post-mortem of poultry and laboratory disease diagnosis, worked as research assistant in a pilot study on ESBL producing *E. coli* in poultry, completed own research to determine the prevalence of MRSA from bovine milk for the first time in Nepal.

1. **Clinical Practice, Namaste Veterinary Clinic (2011-2013)**

Visiting large animal farms, providing treatment to the farm animals and pets, giving farm management advices to the farmers

1. **Ambassador, WIKIVET (2011-2013)**

Promoting WIKIVET activities in the vet school of Nepal. WIKIVET is the UK based online educational portal for veterinarians

**AWARDS AND SCHOLARSHIPS**

**2008-2013** – Merit Scholarship, Institute of Agriculture and Animal Science

**2012** – Diligent Student Scholarship, Nepal Government

**2015** – Best MS proposal award, Sigma Xi, SDSU

**2016**- Best MS paper award, Sigma Xi, SDSU

**2016**- Outstanding Oral Presentation Award, AAVM, CRWAD Meeting, Chicago, IL

**GRANTS**

1. Grant for Amphibian Conservation Awareness, from Open Society Institute USA (NRs. 30,000)
2. Grant for SAVE THE FROG Initiative in Nepal, from Save the Frogs, USA (NRs. 50,000)

**TRAININGS RECEIVED**

1. ArcGIS Training, Research Solutions Nepal, 2015
2. Training on Molecular and Immunological Technique, Intrepid Nepal, 2014
3. Statistical Analysis and Data Interpretation Training, NVSA, Nepal, 2013
4. PCN and Proposal Writing Training, Jhee Newa, Nepal, 2013

**PUBLICATIONS IN PEER REVIEWED JOURNALS**

1. **Joshi, L.R**., Fernandes, M.H., Clement, T., Lawson, S., Pillatzki, A., Resende, T.P., Vannucci, F.A., Kutish, G.F., Nelson, E.A. and Diel, D.G., 2016. Pathogenesis of Senecavirus A infection in finishing pigs. Journal of General Virology, 97(12), pp.3267-3279.
2. **Joshi, L.R**., Mohr, K. A., Clement, T., Hain, K.H., Myers, B., Yaros, Y., Nelson, E.A., Christopher-Hennings, J., Gava, D., Schaefer, R., Caron, L., Dee, S., Diel, D.G. 2016. Detection of the Emerging Picornavirus Senecavirus A in Pigs, Mice and Houseflies. Journal of Clinical Microbiology, June, 54(6):1536-45. doi: 10.1128/JCM.03390-15.
3. Hain, K.S., **Joshi, L.R**., Okda, F., Nelson J., Singrey, A., Lawson, S., Martins, M., Pillatzki, P., Kutish, G.F., Nelson, E.A., Flores, E.F., Diel, D.G. Immunogenicity of a Recombinant Parapoxvirus Expressing the Spike Protein of Porcine Epidemic Diarrhea Virus. Accepted by Journal of General Virology, August 22, 2016. (Shared first authorship)
4. **Joshi, L.R**., Diel D.G. Senecavirus A: a Newly Emerging Picornavirus of Swine. EC Microbiology 2.4 (2015): 363-364.
5. **Joshi, L.R**., Tiwari, A., Devkota, S.P., Khatiwada, S., Paudyal, S. and Pande, K.R., 2014. Prevalence of methicillin-resistant Staphylococcus aureus (MRSA) in dairy farms of Pokhara, Nepal. International Journal of Veterinary Science, 3(2), pp.87-90.
6. **Joshi, L.R.** and Devkota, S.P., 2014. Methicillin-Resistant Staphylococcus Aureus (MRSA) in Cattle: Epidemiology and Zoonotic Implications. International Journal of Applied Sciences and Biotechnology, 2(1), pp.29-33.
7. Paudyal, S., Karna, S. R., Khatiwada, S., **Joshi, L.R**., Tiwari, A. and Shrestha, S.P. 2013.Study on the prevalence of Cryptosporidium in calves and HIV infected humans in the periphery of river basins of Kathmandu valley. Int. J. Infect. Microbiol. 2(1):7-11

**CONFERENCE PAPERS AND POSTERS**

1. **Joshi, L.R**., Fernandes, M.V.H., Clement, T., Lawson, S., Resende, T.P., Vannucci, F.A., Nelson, E.A., Diel D.G. Pathogenesis and infection dynamics of Senecavirus A in pigs. Conference for Research Workers in Animal Health Meeting. Dec 4-6 -2016 Chicago, Il (Paper presented and poster).
2. Fernandes, M.H.V., Okda, F., **Joshi, L.R**., Hain, K.S. Nelson, E.A., Christopher-Hennings, J., Osorio, F.A., Vu, H., Diel, D.G. Evaluation of immunodominant B- and T-cell epitopes as inducers of protective immunity against porcine reproductive and respiratory syndrome virus. Conference for Research Workers in Animal Health Meeting Dec 4-6 -2016 Chicago, Il (Poster)
3. **Joshi, L.R**., Mohr, K.A., Gava, D., Kutish, G., Piñeyro, P., Zhang, J., Caron, L., Schaefer, R., Diel, D.G. Genetic characterization and phylogenetic analysis of Senecavirus A. North American PRRSV and other emerging viruses Symposium.  Dec 3-4-2016 Chicago,IL (Poster)
4. Tripathy, D.N**., Joshi L.R.**, Hain K.S., Kutish G.F., Armien A.G., Lehman, P.C., Leslie-Steen, P., Neiger, R., Diel, D.G. Co-infection with fowlpox virus strains carrying variable sequences of reticuloendotheliosis virus. American Association of Avian Pathologists Annual Meeting-2016. (Paper presented and Abstract)
5. S. Lawson, F. Okda, K.S. Hain, **L.R. Joshi**, A. Singrey, X. Liu, J. Nelson, E.A. Nelson, D.G. Diel**.** [Monoclonal antibodies against the spike glycoprotein of porcine epidemic diarrhea virus](http://www.abstractsonline.com/Plan/ViewAbstract.aspx?sKey=82fda3b1-5c38-4e70-a866-6c22063beb75&cKey=acc73d38-ce30-45e4-80ac-77fa69bb4779&mKey=%7bFE03F8D1-EE9D-426E-AD15-250C16758FF5%7d). North American PRRSV Symposium-2015 (Poster and abstract)
6. M. Martins, **L.R. Joshi**, K.S. Hain, D. Anziliero, R. Frandoloso, D.L. Rock, R. Weiblen, E.F. Flores, D.G. Diel. [A novel vector platform for vaccine delivery in domestic animal species](http://www.abstractsonline.com/Plan/ViewAbstract.aspx?sKey=ef0e4fcc-8575-44fb-af44-ebd403f2989b&cKey=de98e876-e738-4428-83aa-02077a6e6fe6&mKey=%7bFE03F8D1-EE9D-426E-AD15-250C16758FF5%7d). Conference for Research Workers in Animal Health Meeting-2015. (Paper presented)
7. Martins, M., Cargnelutti, J.F., Anziliero, D., Frandoloso, R., **Joshi, L.R**., Diel, D.G**.**, Flores, E.F., Weiblen, R. Immunogenicity of orf virus recombinant expressing the rabies virus glycoprotein in cattle, horses and swine. XXVI Brazilian Congress of Virology-2015. (Abstract).

**PROFESIONAL AFFILIATIONS**

American Association of Veterinary Immunologists (2015-present)

Nepal Veterinary Council, Registered Veterinarian (2013-present)

Nepal Veterinary Association, Member (2013 – present)

Nepal Veterinary Student Association, Secretary, (2010-2012)

**LANGUAGES**

**Nepali** (fluent in speech, writing and reading)

**English** (fluent in speech, writing and reading)

**Hindi** (fluent in speech, writing and reading)

**REFERENCE**

Dr. Diego Diel

Assistant Professor

Dept. of Vet and Biomedical Science, SDSU Brookings

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