

KANNADA FORMAT

ಹೆಸರು : ಡಾ. ಯಶವಂತ್ ಎಸ್ ಎಲ್

ವಿಭಾಗ : ಜಿ ಎಮ್ ಪಿ ಪ್ರಯೋಗಾಲಯ#2, ಕುಕ್ಕುಟ ಹಾಗೂ ಚರ್ಮ ಗಂಟು ರೋಗ
ಲಸಿಕೆ ಉತ್ಪಾದನಾ ವಿಭಾಗ, ಪ್ರಾಣಿ ಆರೋಗ್ಯ ಮತ್ತು ಜೈವಿಕ ಸಂಸ್ಥೆ, ಹೆಬ್ಬಾಳ, ಬೆಂಗಳೂರು.

ಪದನಾಮ : ಸಹಾಯಕ ಪ್ರಾಧ್ಯಾಪಕರು

ವಿದ್ಯಾರ್ಹತೆ : ಬಿ.ವಿ. ಎಸ್ಸಿ & ಎ.ಎಚ್ - ಪಶು ವೈದ್ಯಕೀಯ ಮಹಾವಿದ್ಯಾಲಯ, ಬೀದರ, ಕರ್ನಾಟಕ.
ಎಂ.ವಿ.ಎಸ್ಸಿ (ವೆಟರಿನರಿ ಮೈಕ್ರೋ ಬಯಾಲಜಿ) - ಪಶು ವೈದ್ಯಕೀಯ ಕಾಲೇಜು ಮುಂಬೈ ಮಹಾರಾಷ್ಟ್ರ,
ಪಿ ಎಚ್ ಡಿ : ಡಿ ಓಹಿಯೋ ಸ್ಟೇಟ್ ಯುನಿವರ್ಸಿಟಿ, ಕೊಲಂಬಸ್, ಓಹಿಯೋ, ಯು.ಎಸ್.ಎ.
ಎಂ ಬಿ ಎ : ಸಿಕ್ಕಿಂ ಮಣಿಪಾಲ್ ಯುನಿವರ್ಸಿಟಿ, ಭಾರತ.

ಮೊಬೈಲ್ ಸಂಖ್ಯೆ : 080-23411502

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ವೃತ್ತಿಯ ವಿವರ : ವೆಟ್ರಿನರಿ ವೈರಸ್ ಲಸಿಕೆಗಳು, ಸಾಂಕ್ರಾಮಿಕ ರೋಗಗಳು (ಕೋವಿಡ್ 19, ಎಚ್ ಐ ವಿ, ದಡಾರ), ವನ್ ಹೆಲ್ತ್,
ಝುನಾಟಿಕ್ ರೋಗಗಳು, ರೋಗ ನಿರೋಧಕ ಶಾಸ್ತ್ರ, ವೈರಾಲಜಿ, ಅಣುಜೀವ ಶಾಸ್ತ್ರ, ಕೋಶ ಜೀವಶಾಸ್ತ್ರ, ಮನುಷ್ಯರ ಮತ್ತು ಪ್ರಾಣಿಗಳ
ಶ್ಲಾಸಕೋಶ ಕಾಯಿಲೆಗಳು.

ENGLISH FORMAT

Name : Dr. Yashavanth S L
Department : Biological production, IAH&VB
Section : GMP Lab#2 - Poultry vaccines & Lumpy Skin disease Vaccine production unit.



Designation and address : Assistant Professor,
Biological Production unit,
Institute of Animal Health & Veterinary Biologicals,
KVAFSU, Hebbal, Bangalore-560 024.

Qualifications : BVSc & AH – Bidar Veterinary College, UAS, Dharwad, India.
M.V.Sc – Bombay Veterinary College, MAFSU, Maharashtra, India.
Ph.D – The Ohio State University, Columbus, Ohio, USA
MBA- Sikkim Manipal University, India.

Contact : 080-2341 1502

Field (s) of specialization : Veterinary Viral Vaccines (Pigs, Cattle, Poultry, Sheep & Goats), Infectious diseases (SARS CoV2, HIV), Zoonotic diseases, One health approach, T cell biology, Immunology, reverse genetics, Molecular biology, Respiratory infections of humans and animals.

Current projects : Development of innovative vaccines for diseases of pigs (African Swine Fever, PRRS) and Cattle (Lumpy Skin diseases),(In communication).

Completed Projects : The following projects are completed during my PhD period in the United States of America.

1) Development and evaluation of efficacy of novel Porcine Reproductive and respiratory Syndrome (PRRS) virus vaccine candidates in Pigs.

- a) Developed and evaluated the protective efficacy of novel vaccine formulations like PRRS-Virus like particles (PRRS-VLP), mutant live PRRSV vaccines in pigs.
- b) Tested the vaccination strategies for live PRRS vaccines and application of genetically modified non-toxic enterotoxin and E. coli as vaccine adjuvants for killed vaccines formulations against PRRSV in a collaborative research project.
- c) Development of Vesicular Stomatitis Virus (VSV) vector based recombinant PRRSV vaccines by reverse genetics.
- d) Major contributor in development and efficacy testing of **nano-particle based vaccines against Swine influenza virus** in pigs, salmonella vaccines in poultry & Influenza virus infection study on infant microflora in humanized piglet model.

2) Development the novel ways to design an HIV vaccine and understand the HIV pathogenesis in human, non-human primates (NHP) and mouse model systems using flow cytometry-based assays.

- a) Performed a study on age related neurodegenerative disorder after Anti Retro Viral Therapy (ART) in HIV+ patients using NHP models to determine the role Th1, Th17, Tfh CD4 T-cells during neuroinflammation and neurodegeneration.
- b) Dissected the immunobiology of $\alpha\beta7+$ and $\alpha\beta7-$ CD4 T cell subsets and their susceptibility

to HIV acquisition. Explored vaccine effects on target $\alpha 4\beta 7+$ CD4 T cells in the female genital tract (FGT) mucosa.

- c) **Evaluated the central memory T cells/T cell repertoires of the central nervous system (CNS)** using 10X genomics, Single cell RNA Seq in rhesus macaques and SMARTer transgenic mice models to study the **neurodegeneration and neuroinflammation**.

3) Dissecting the immunology and pathogenesis of SARS CoV2 in aged, young, and nursing macaques.

- a) Used the convalescent plasma as a treatment in pre and post SARS-CoV-2 infected adult and young rhesus macaques during the early onset of COVID and studied of pathogenesis of SARS-CoV-2 Delta variant in aged, nursing mothers and young rhesus macaques.
- b) Tested the efficacy of anti-SARS-CoV-2 monoclonal antibodies in pre and post exposure rhesus macaques.
- c) Evaluated the efficacy of SARS-CoV-2 mRNA vaccines after challenge with SARS-CoV2 variants (Delta variant) in rhesus macaques.

Recent research publications:

- 1) **Yashavanth Shaan Lakshmanappa**, Sonny R Elizaldi, Jamin W Roh, Brian A Schmidt, Timothy D Carroll, Kourtney D Weaver, Justin C Smith, Anil Verma, Jesse D Deere, Joseph Dutra, Mars Stone, Sergej Franz, Rebecca Lee Sammak, Katherine J Olstad, J Rachel Reader, Zhong-Min Ma, Nancy K Nguyen, Jennifer Watanabe, Jodie Usachenko, Ramya Immareddy, JoAnn L Yee, Daniela Weiskopf, Alessandro Sette, Dennis Hartigan-O'Connor, Stephen J McSorley, John H Morrison, Nam K Tran, Graham Simmons, Michael P Busch, Pamela A Kozlowski, Koen KA Van Rompay, Christopher J Miller, Smita S Iyer, SARS-CoV-2 infection induces robust germinal center CD4 T follicular helper cell responses in rhesus macaques. (**Nature Communications, January 2021 Vol 12, Issue 1, pp 1-14 IF:14.919**)
- 2) **Yashavanth S Lakshmanappa**, Jamin W Roh, Niharika N Rane, Ashok R Dinasarapu, Daphne D Tran, Vijayakumar Velu, Anandi N Sheth, Igho Ofotokun, Rama R Amara, Colleen F Kelley, Elaine Waetjen, Smita S Iyer Circulating integrin $\alpha 4\beta 7+$ CD4 T cells are enriched for proliferative transcription programs in HIV infection (**FEBS letters, July 2021, Vol 595, Issue 17, pp 2257-2270 IF: 4.0 DOI: 10.1002/1873-3468.14163**)
- 3) Anil Verma, Chase E Hawes, **Yashavanth Shaan Lakshmanappa**, Jamin W Roh, Brian A Schmidt, Joseph Dutra, William Louie, Hongwei Liu, Zhong-Min Ma, Jennifer K Watanabe, Jodie L Usachenko, Ramya Immareddy, Rebecca L Sammak, Rachel Pollard, J Rachel Reader, Katherine J Olstad, Lark L Coffey, Pamela A Kozlowski, Dennis J Hartigan-O'Connor, Michel Nussenzweig, Koen KA Van Rompay, John H Morrison, Smita S Iyer, Monoclonal antibodies protect aged rhesus macaques from SARS-CoV-2 associated immune activation (**Cell reports, November 2021, Vol 37, Issue 5 PP109942, IF: 9.4**)
- 4) Emma C. Milligan, Katherine Olstad, Caitlin A. Williams, Michael Mallory, Patricio Cano, Kaitlyn A. Cross, Jennifer E. Munt, Carolina Garrido, Lisa Lindesmith, Jennifer Watanabe, Jodie L. Usachenko, Lincoln Hopkins, Ramya Immareddy, **Yashavanth Shaan Lakshmanappa**, Sonny R. Elizaldi, Jamin W. Roh, Rebecca L Sammak, JoAnn L. Yee, Savannah Herbek, Trevor Scobey, Dieter Miehle, Genevieve Fouda, Guido Ferrari, Hongmei Gao, Xiaoying Shen, Pamela A. Kozlowski, David Montefiori, Michael Hudgens, Darin K. Edwards, Andrea Carfi, Kizzmekia S. Corbett, Barney S. Graham, Christopher B. Fox, Mark Tomai, Smita S. Iyer, Ralph Baric, Rachel Reader, Dirk P. Dittmer, Koen K.A. Van Rompay, Sallie Permar, and Kristina De Paris: Protection of SARS-CoV-2 immunized infant rhesus macaques against lung inflammation after heterologous virus challenge one year later (**Science Translational Medicine, December 2022, IF: 17.9**)
- 5) Chase E. Hawes, Sonny R. Elizaldi, Danielle Beckman, Giovanna B. Diniz, **Yashavanth Shaan Lakshmanappa**, Sean Ott, Blythe P. Durbin-Johnson, Ashok R. Dinasarapu, Andrea Gompers, John H. Morrison, Smita S. Iyer : Neuroinflammatory transcriptional programs induced in rhesus pre-

frontal cortex white matter during acute SHIV infection (*Journal of Neuroinflammation* October 2022, IF: 7.6)

- 6) Stephanie N. Langel, Carolina Garrido, Caroline Phan, Tatianna Travies, Todd DeMarco, Zhong-Min Ma, Rachel Reader, Katherine J. Olstad, Rebecca L. Sammak, **Yashavanth Shaan Lakshmanappa**, Jamin W. Roh, Jennifer Watanabe, Jodie Usachenko, Ramya Immareddy, Rachel Pollard, Smita S. Iyer, Sallie Permar, Lisa A. Miller, Koen K.A. Van Rompay and Maria Blasi: Distinct upper airway epithelium interferon-stimulated and profibrotic gene expression between adult and infant rhesus macaques infected with SARS-CoV-2 (*Journal of ImmunoHorizon*, December 2022, IF: 3.0)
- 7) Jesse D. Deere, Timothy D. Carroll, Joseph Dutra, Linda Fritts, Rebecca Lee Sammak, JoAnn L. Yee, Katherine J. Olstad, J. Rachel Reader, Amy Kistler, Jack Kamm, Clara Di Germanio, **Yashavanth Shaan Lakshmanappa**, Sonny R. Elizaldi, JaminW.Roh, GrahamSimmons, JenniferWatanabe, RachelE.Pollard, JodieUsachenko, Ramya Immareddy, BrianA.Schmidt, Shelby L. O'Connor, Joseph DeRisi, Michael P. Busch, Smita S. Iyer, Koen K. A. Van Rompay, Dennis J. Hartigan-O'Connor, Christopher J. Millerb, SARS-CoV-2 infection of rhesus macaques treated early with human COVID-19 convalescent plasma. (*Microbial Spectrum*, November, 2021, Vol 9 Issue 3, IF: 7.17)
- 8) Koen K. A. Van Rompay, Katherine Olstad, Rebecca L. SammakID, Joseph Dutra, Jennifer K. Watanabe, Jodie L. Usachenko, Ramya Immareddy, Anil Verma, **Yashavanth Shaan Lakshmanappa**, Brian A. Schmidt, Jamin W. Roh, Sonny R. Elizaldi, A. Mark Allen, Frauke Mueckschl, Julio C. C. Lorenzil, Sarah Lockwood, Rachel E. Pollard, JoAnn L. Yee, Peter B. Nham, Amir Ardeshir, Jesse D. Deere, Jean Patterson, Que Dang, Theodora Hatziiioannou, Paul D. Bieniasz, Smita S. Iyer, Dennis J. HartiganO'Connor, Michel C. Nussenzweig, J. Rachel Reader, Early treatment with a combination of two potent neutralizing antibodies improves clinical outcomes and reduces virus replication and lung inflammation in SARS-CoV-2 infected macaques (*PLoS Pathogen*, July, 2021 IF: 6.8)
- 9) Koen KA Van Rompay, Katherine J Olstad, Rebecca L Sammak, Joseph Dutra, Jennifer K Watanabe, Jodie L Usachenko, Ramya Immareddy, Jamin W Roh, Anil Verma, **Yashavanth Shaan Lakshmanappa**, Brian A Schmidt, Clara Di Germanio, Nabeela Rizvi, Mars Stone, Graham Simmons, Larry J Dumont, A Mark Allen, Sarah Lockwood, Rachel E Pollard, Rafael Ramiro De Assis, JoAnn L Yee, Peter B Nham, Amir Ardeshir, Jesse D Deere, Jean Patterson, Aarti Jain, Philip L Felgner, Smita S Iyer, Dennis J Hartigan-Oâ, , Early post-infection treatment of SARS-CoV-2 infected macaques with human convalescent plasma with high neutralizing activity reduces lung inflammation. (*PLoS Pathogen*, 2022, IF:6.8)
- 10) Sankar Renu, Loic Deblais, Veerupaxagouda Patil, Jennifer Schrock, Dipak Kathayat, Vishal Srivastava, Ninoshkaly Feliciano-Ruiza, Yi Han, Anikethana Ramesh, **Yashavanth S Lakshmanappa**, Shristi Ghimire, Santosh Dhakal, Gireesh Rajashekara and Gourapura J Renukaradhya Gut Microbiota of obese children influences inflammatory mucosal immune pathways in the respiratory tract to influenza virus infection: optimization of an ideal duration of microbial colonization in a gnotobiotic pig model : *Microbiology Spectrum* 10(3), May 2022 IF :7.17
- 11) Gokben Ozbey, Alfizah Hanafiah, **Yashavanth Shaan Lakshmanappa**, Santosh Dhakal, Gourapura J Renukaradhya,:Insights to the epidemiology, diagnosis and treatments of SARS-CoV2; *International Journal of Molecular and Clinical Microbiology (IJMCM)* 12(2) August 2022: 1684-1691)
- 12) Gokben Ozbey, Alfizah Hanafiah, **Yashavanth Shaan Lakshmanappa**, Santosh Dhakal, Gourapura J Renukaradhya,: The Genome characteristics of SARS CoV2 and emergence of SARS CoV2: *International Journal of Molecular and Clinical Microbiology (IJMCM)* January 2023)
- 13) Gokben Ozbey, Elif Seren Tanriverdi, Asiye Basusta, **Yashvanth Shaan Lakshmanappa**, Baris Otlu, František Zigo, Investigation for the presence of bacteria and antimicrobial resistance genes in sea snails (*Rapana venosa*) *Annals of Agricultural and Environmental Medicine*, June 2023
- 14) Sankar Renu, Yi Han, Santosh Dhakal, **Yashavanth S Lakshmanappa**, Shristi Ghimire, Ninoshkaly Feliciano-Ruiza, Sujata Senapati, Balaji Narasimhan, Ramesh Selvaraj and Gourapura J

- Renukaradhya Chitosan-adjuvanted Salmonella subunit nanoparticle vaccine for poultry delivered through drinking water and feed. *Carbohydrate Polymers* 243:116434, May 2020 **IF: 9.38**)
- 15) Anil Verma, Brian A. Schmidt, Sonny R. Elizaldi, Nancy K. Nguyen, Corey A. Walter, Zoltan Beck, Hung V. Trinh, Ashok R. Dinasarapu, **Yashavanth Shaan Lakshmanappa**, Niharika N. Rane, Gary R. Matyas, Mangala Rao, Xiaoying Shen, Georgia D. Tomaras Celia C. LaBranche, Keith A. Reimann, David H. Foehl, Johannes S. Gach, Donald N. Forthal, Pamela A. Kozlowski, Rama R. Amara, Smita S. Iyer.; Impact of Th1 CD4 Follicular Helper T Cell Skewing on Antibody Responses to an HIV-1 Vaccine in Rhesus Macaques: (*Journal of Virology*, February 2020 Issue 6, Vol 94, IF:)
 - 16) Santosh Dhakal; Lingling Wang; Linto Antony; Jennifer Rank; Pauline Bernardo; Shristi Ghimire; Kathy Bondra; Christina Siems; **Yashavanth Shaan Lakshmanappa**; Renu Sankar; Bradley Hogshead; Steven Krakowka; Mike Kauffman; Joy Scaria; Jeffrey Lejeune; Zhongtang Yu; and Gourapura J. Renukaradhya, Amish(Rural) versus non-Amish (urban) infant fecal microbiotas are highly diverse and transplantation lead to differences in mucosal immune maturation in the humanized germfree piglet model; (*Front. Immunol* 16 July 2019; I.F 5.085)
 - 17) S Dhakal, S Ghimire, S Renu, K.A.Ross, **Y.S.Lakshmanappa**, B.T.Hogshead, P.Bernardo, C.W.Lee, M.J.Wannermuehler, B Narasimhan, G.J.Renukaradhya Evaluation of CpG-ODN-adjuvanted polyanhydride-based intranasal influenza nanovaccine in pigs (*Veterinary Microbiology*, Vol 237, October 2019; **IF: 3.24**)
 - 18) Basavaraj Binjawadagi, **Yashavanth Shaan Lakshmanappa**, Zhu Longchao,Santosh Dhakal,Jagadish Hiremath, Kang Ouyang, Duan-Liang Shyu, Jesus Arcos, Shang Pengcheng, Aaron Gilbertie,Federico Zuckermann, Jordi B. Torrelles, Daral Jackwood,Ying Fang, Gourapura J. Renukaradhya, Development of a porcine reproductive and respiratory syndrome virus-like-particle-based vaccine and evaluation of its immunogenicity in pigs. *Archives of Virology*, June 2016, Volume 161, Issue 6, pp 1579–1589. I.F : 2.11
 - 19) Rui Guo, Pengcheng Shang, Celena A Carrillo, Zhi Sun, **Yashavanth S Lakshmanappa**, Xingyu Yan, Gourapura J Renukaradhya, Jodi McGill, Crystal J Jaing, Megan C Niederwerder, Raymond R Rowland, Double-stranded viral RNA persists in vitro and in vivo during prolonged infection of porcine reproductive and respiratory syndrome virus.: *Virology*, 2018 I.F: 3.353.
 - 20) Santosh Dhakal, Sankar Renu, Shristi Ghimire, **Yashavanth Shaan Lakshmanappa**, Bradley Hogshead, Ninoshkaly Feliciano Ruiz,Steven Krakowka,Chang Won Lee and Renukaradhya J Gourapura* Mucosal immunity and protective efficacy of inactivated influenza virus vaccine is improved by using the intranasal chitosan delivery system in pigs. *Frontiers of Immunology*, 2018: I.F: 6.424
 - 21) Sankar Renu, Santosh Dhakal, Jonathan Goodman, **Yashavanth Shaan Lakshmanappa**, Eunsoo Kim, Michael Wannemuehler, Balaji Narasimhan, Prosper Boyaka and Renukaradhya J Gourapura. Differential expression of B cell activation factor regulates breadth of antibody responses to nanoparticle-based nasal vaccines. *Cellular Immunology*, 2018: I.F: 2.14
 - 22) Santosh Dhakal; Fangjia Lu; Shristi Ghimire; Sankar Renu; **Yashavanth Shaan Lakshmanappa**; Bradley Hogshead; Darryl Ragland; Harm Hogenesch, and Renukaradhya Gourapura. Corn-derived alpha-D-glucan nanoparticles as adjuvant for intramuscular and intranasal immunization in pigs. *Nanomedicine*. 2019 Feb;16: 226-235. I.F: 6.5.
 - 23) Santosh Dhakal; Xingguo Cheng; Renu Sankar; **Yashavanth Shaan Lakshmanappa**; Bradley Hogshead; Kathy Bondra; Nino Feliciano-Ruiz ; Steve Krakowka; Chang Won Lee. Liposome nanoparticle-based influenza conserved peptides vaccine and monosodium urate crystal adjuvant elicits protective immune response in pigs. *Int J Nanomedicine*. 2018 Oct 24;13:6699-6715 I.F: 4.383.

- 24) Santosh Dhakal, Jagadish Hiremath, Kathryn Bondra, **Yashavanth S Lakshmanappa**, DuanLiang Shyu, Kang Ouyang, Kyung-il Kang, Basavaraj Binjawadagi, Jonathan Goodman, Kairat Tabyonov, Steven Krakowka, Balaji Narasimhan, Chang Won Lee, Gourapura J. Renukaradhya. Biodegradable nanoparticle delivery of inactivated swine influenza virus vaccine provides heterologous cell-mediated immune response in pigs. *Journal Control Release, Volume 247, 2017, Pages 194–205. I.F: 7.705*
- 25) Santosh Dhakal, Jonathan Goodman, Kathryn Bondra, **Yashavanth S Lakshmanappa**, Jagadish Hiremath, Duan-Liang Shyu, Kang Ouyang, Kyung-il Kang, Steven Krakowka, Michael J. Wannemuehler, Chang Won Lee, Balaji Narasimhan, Gourapura J. Renukaradhya. Polyanhydride nanovaccine against swine influenza virus in pigs. *Vaccine, January 2017. I.F: 3.235*
- 26) Sankar Renu, Ashley Markazi, Santosh Dhakal, **Yashavanth shaan lakshmanappa**, Revathi Shanmugasundaram, Ramesh Selvaraj Gourapura J Renukaradhya. Oral deliverable Mucoadhesive chitosan-Salmonella subunit nanovaccine for layer chickens. *International Journal of Nanomedicine February 2020; Vol 15, pp 761-777, IF : 5.93*
- 27) Renu Sankar, Markazi Ashley, Santosh Dhakal, **Yashavanth Shaan Lakshmanappa**, Suren Gourapura; Revathi Shanmugasundaram, Sujata Senapati, Balaji Narasimhan, Gourapura J Renukaradhya. Surface engineered polyanhydride based oral Salmonella subunit nanovaccine for poultry Renukaradhya Gourapura *International Journal of Nanomedicine-2018, Nov 30:13:8195-8215. I.F : 4.383*
- 28) Kang Ouyang, Duan-Liang Shyu, Santosh Dhakal, Jagadish Hiremath, Basavaraj Binjawadagi, **Yashavanth S Lakshmanapp**. Rui Guo, Russell Ransburgh, Kathryn M Bondra, Phillip Gauger, Jianqiang Zhang, Terry Spencht, Aaron Gilbertie, William Minton, Ying Fang and Renukaradhya J Gourapura . Evaluation of humoral immune status in porcine epidemic diarrhea virus (PEDV) infected sows under field conditions. *Veterinary Research, 2015, 46:140. I.F : 2.798*
- 29) **Yashavanth Shaan Lakshmanappa**, Majee S.B. Sherikar A.A, GENE BANK Submission of Partial Sequence of Gallid Herpes Virus2 isolate MDV-BVCMICRO1 from India BamHI repeat region, with **accession#EF408266**.
- 30) Amitha R. Gomes, RaveendraHegde, S.M.Byregowda, Suryanarayana T, Ananda H, **Yashavant S.L.**, P. Giridhar and C. Renukaprasad. PCR based confirmation of sheeppox vaccine virus. *Veterinary World. 3 (2) 2010*.
- 31) Amitha R. Gomes, RaveendraHegde, S.M.Byregowda, VijayashreeVaradarajan, **Yashawant S. L**, Giridhar, P and C. Renukaprasad. 2010 (Sept-Oct) Evaluation of humoral immune response to sheeppox vaccine. *Tamilnadu Journal of Veterinary and Animal Sciences. 6(5) 236-238*.
- 32) M.S.Dinesh, Chandana P.G, Geetha K.S, Byregowda S.M, **Yashwanth S. L** and V. Krishnamurthy, Anticancerous potential of peptides of coelomic fluid of *Eudriluseugeniae*. *Journal of Biochemical Technology Vol 8 (1)*.

Honors and awards:

1. 2022: Poster presentation award at 39th Symposium on NHP models for AIDS, Portland, Oregon, USA
2. 2017: **Travel Grant Award:** received David Benefield-student travel award to attend NA-PRRS symposium-2017 at Chicago IL, USA. Amount: \$500.
3. 2017: Research abstract selected for the oral presentation under **selected students abstract for oral presentation** in NA-PRRSV-2017 symposium at Chicago, IL, USA.
4. 2015-2018: **ICAR INTERNATIONAL FELLOWSHIP AWARD** for 3 years. Amount: \$ 72,000

By Indian Council of Agricultural Research, (ICAR), INDIA to pursue my PhD from The Ohio State University as an external research fellow.

5. 2015-2018 Matching Tuition fellowship Award from The Ohio State University for my PhD program.
6. 2013: **Dr. Rishendra Verma YOUNG SCIENTIST AWARD** (Consolation) in Indian association for advancement of veterinary research (IAAVR) conference -2013 for the oral presentation.
7. 2012: KVAFSU, **University CONVOCATION AWARD** under the **Development of New Technology-** Development of Classical Swine Fever LIVE Cell culture-based vaccine for Pigs.
8. 2004-2006: Junior Research Fellowship JRF – during my Masters program.
9. General Merit Fellowship for 5 years during DVM (undergraduate) program.
10. Certificate of appreciation for academic excellence during the undergraduate and master's programs.
11. State award of excellence (Merit certificate) for extra-curricular activities & cultural activities (Debate, extempore speech, essay writing etc.)
12. Received Best NSS (National Service scheme, Ministry of Youth Affairs& Sports, Govt. of India) Volunteer award.

Other achievements:

- 1) 2023: **Editorial board member for Frontiers in immunology** for the special sections on Vaccines and Molecular Therapeutics, Viral Immunology and T cell Biology.
- 2) 2023: **Academic editor for the journal of Microorganisms** (IF=4.9) on special issue of emerging infectious diseases of animals and humans.
- 3) 2023: **Editorial board member for AS Microbiology journal.**
- 4) 2022: **Academic editor for the journal of Biomedicines** (IF=4.90, NAAS=11) on the special issue of "Emerging viral infectious diseases: Immunology, therapeutics and prevention in post pandemic era".
- 5) 2019 to 2022: Served as a **Judge for the Poster presentation** during the Graduate Group in Integrative Pathobiology (GGIP) International Research Symposium – 2019, Poster Session, February 20, 2019, 2020 and 2022 at University of California, Davis.
- 6) 2019: Served as a **Judge** in the Graduate group of Immunology (GGI) Graduate student's **poster presentation** at University of California, Davis. CA, USA.
- 7) 2019: Received master training in BSL2+/BSL3 laboratories for sampling, handling, and management of the primates for the HIV/SIV vaccine study purpose under the IACUC principles at California National Primate Research Center (CNPRC), UC Davis, CA, USA.
- 8) 2019: Received training on use of mouse modular for the HIV/SIV experimental trails at California National Primate Research Center (CNPRC), UC Davis, CA, USA.
- 9) 2018: Served as a **co-instructor for the course VET PREV 7760**, Spring semester-2018 and delivered a lecture on "opportunities in Veterinary medicine in India" -under the course title- opportunities in global veterinary medicine and public health for the graduate students at The Ohio state university, Columbus, Ohio, USA.
- 10) 2017: Served as **student moderator in International CRWAD-2017 conference** under the section disinfection and biosecurity.
- 11) 2016: Earned Distinction in CUSTOMER ALIGNED STARTUP TRAINING (**CAST**) student associated program through Technology Commercialization Transfer Office (TCO) at the Ohio

State University, OH, USA.