

Radhey Shyam Kaushik

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EDUCATION

Ph.D. (Microbiology and Immunology)	1993-1998	Univ. of Saskatchewan, Canada.
M.V.Sc. (Veterinary Medicine)	1986-1988	Haryana Agricultural Univ., India.
BVSc & AH (Veterinary Science)	1981-1985	Haryana Agricultural Univ., India.

RESEARCH AND PROFESSIONAL EXPERIENCE

Positions and employment

06/13-present	Professor (tenured), South Dakota State University (SDSU), SD, USA.
08/11-present	Assistant Dept. Head, Dept. of Biology and Microbiology, SDSU.
07/08-06/13	Associate professor (tenured in 2009), South Dakota State Univ., SD, USA.
09/03-06/08	Assistant Professor, South Dakota State University, SD, USA.
07/02-08/03	Research Associate, VIDO, Univ. of Saskatchewan, Canada.
06/99-06/02	Post-doctoral fellow, VIDO, Univ. of Saskatchewan, Canada.
10/98-05/99	Veterinarian, Vallabhbhai Patel Chest Institute, University of Delhi, India.
12/90-12/93	Veterinarian, Vallabhbhai Patel Chest Institute, University of Delhi, India.
04/88-12/90	Veterinary Surgeon, Animal Husbandry Department, Haryana, India.

PROFESSIONAL ACTIVITIES

Professional memberships

2003-present	Conference of Research Workers in Animal Diseases (CRWAD), USA.
2007-present	American Society of Microbiology (ASM).
2007-present	American Association of Veterinary Immunologists (AAVI).
2012-Present	The Honor Society of Agriculture, Gamma Sigma Delta (SDSU Chapter).
2014-15	American Society for Virology.
2012	SDSU Sigma Xi.

Leadership at Scientific Conferences

2015	Presided, 'Immunology section' at CRWAD meeting, Chicago, IL.
2011-14	Chair, 'Enteric' session, CRWAD meeting, Chicago, IL.
2012	Co-chair, 'Gastrointestinal Immunology' session at 'World Congress on Gastroenterology and Urology' conference at Omaha, NE.
2006-10	Co-chair, Enteric Disease' session, CRWAD meeting, Chicago, IL.

Committee and other significant appointments

- Chair, SDSU Hoch Family Lecture Series Committee (2014-present): Invited & coordinated presentations of two Nobel Laureates Brian Kobilka and Randy Schekman in 2014 and 2016.
- Treasurer, ASM North Central Branch Meeting held at SDSU (2013).
- SDSU Dept. of Biology and Microbiology Graduate Coordinator (Sept 2010-present).
- SDSU Bio-Micro Scholarship (2008-present) and Curriculum Committee (2008-10).
- SDSU Dept. of Veterinary Science Graduate Students Committee (2009-present).
- Sigma Xi Graduate Research Competition Committee (2006-2008)

- Chairperson, Sigma Xi Graduate Research Competition Committee (2009)
- ASM North Central Branch Meeting organizing committee (2006)

Teaching assignments

1. Medical and Veterinary Immunology-MICR 439/592 (3-credit course) (2005-Present)
2. Medical Microbiology-MICR 433/533) (3-credit course) (2004-present, every spring)
3. Adv Concepts in Infectious Disease-BIOS663 (6-credits) (2006-present) (Team taught)
4. Infectious Disease Lab (Coordination)-MICR 440L (3-credit course) (2005-present)
5. Coordinator for summer Undergraduate Internships–Biol494-(2011-present).

Graduate students advised as major advisor

- Graduated- Five MS students and one Ph.D. student.
- Current graduate advisees: Two MS and one Ph.D.

Undergraduate research trainees supervised

- 12 undergraduate students completed their undergraduate research projects.

HONORS AND AWARDS

2015	Cheesbrough Award in Teaching, South Dakota State University (SDSU).
2015-16	President Elect, American Assoc. of Veterinary Immunologists (AAVI).
2014-15	Vice President, American Assoc. of Veterinary Immunologists (AAVI).
2013-14	Board Member, American Assoc. of Veterinary Immunologists (AAVI).
2011, 2013 & 2014	Member, USDA NIFA Animal Health Grant Panel.
2012	SDSU, Excellence in Graduate Student Mentoring Award.
2010	SDSU Intellectual Property and Commercialization Award.
2005	SDSU College of Agriculture Dean's team Award.
1999-2002	HSURC Post-Doc Fellowship, Univ. of Saskatchewan, Canada.
1993-1998	Canadian Commonwealth Scholarship, Univ. of Saskatchewan, Canada.
1986-1988	Indian Council of Agricultural Research (ICAR) Junior Research Fellowship in Veterinary Medicine.
1981-1985	Indian Council of Agricultural Research (ICAR) merit scholarship.

PUBLICATIONS (last four years)

Total **58 articles**; Total citations: **912**; H factor of publications: **19** (Web of Science)

1. Yue M, Han X, De Masi L, Zhu C, Ma X, Zhang J, Wu R, Schmieder R, Kaushik RS, Fraser GP, Zhao S, McDermott PF, Weill FX, Mainil JG, Arze C, Fricke WF, Edwards RA, Brisson D, Zhang NR, Rankin SC, Schifferli DM. 2015. Allelic variation contributes to bacterial host specificity. *Nat. Commun.* 6:8754 doi: 10.1038/ncomms9754.
2. Sreenivasan C, Thomas M, Sheng Z, Hause BM, Collin EA, Knudsen DE, Pillatzki A, Nelson E, Wang D, Kaushik RS, Li F. 2015. Replication and transmission of novel bovine influenza D virus in guinea pig model. *J Virol.* 89:11990 –12001. doi:10.1128/JVI.01630-15.
3. Novakovic P, Charavaryamath C, Moshynskyy I, Lockerbie B, Kaushik RS, Loewen ME, Kidney BA, Stuart C, Simko E. 2015. Evaluation of inhibition of F4ac positive *Escherichia coli* attachment with xanthine dehydrogenase, butyrophilin, lactadherin and fatty acid binding protein. *BMC Vet Res.* 11(1): 238. doi: 10.1186/s12917-015-0528-0.

4. NandaKafle G, De Berg K, Reese RN, Kaushik RS and Francis, D. 2015. In Vitro Antimicrobial Activity and Cytotoxicity Test of Native South Dakota Plant Extracts. *Int.J.Curr.Microbiol.App.Sci.* 4(5): 274-288
5. Thomas M, Wang Z, Sreenivasan CC, Hause BM, Gourapura J Renukaradhya, Li F, Francis DH, Kaushik RS, Khatri M. 2015. Poly I:C adjuvanted inactivated swine influenza vaccine induces heterologous protective immunity in pigs. *Vaccine* 33 (2015) 542–548.
6. Venuganti VV, Saraswathy M, Dwivedi C, Kaushik RS, Perumal OP. 2014. Topical gene silencing by iontophoretic delivery of an antisense oligonucleotide–dendrimer nanocomplex: the proof of concept in a skin cancer mouse model. *Nanoscale.* 7, 3903–3914.
7. Guevara CP, Luiz WB, Sierra A, Cruz C, Qadri F, Kaushik RS, Ferreira LC, Gómez-Duarte OG. 2013. Enterotoxigenic *Escherichia coli* (ETEC) CS21 pilus contributes to adhesion to intestinal cells and to pathogenesis under in vivo conditions. *Microbiology.* 159, 1725–1735.
8. Fekete PZ, Mateo KS, Zhang W, Moxley RA, Kaushik RS, Francis DH. 2013. Both enzymatic and non-enzymatic properties of heat-labile enterotoxin are responsible for LT-enhanced adherence of enterotoxigenic *Escherichia coli* to porcine IPEC-J2 cells. *Veterinary Microbiology.* 164: 330-335.
9. Santha S, Bommareddy A, Rule B, Guillermo R, Kaushik RS, Young A, Dwivedi C. 2013. Antineoplastic Effects of α -Santalol on Estrogen Receptor-Positive and Estrogen Receptor-Negative Breast Cancer Cells through Cell Cycle Arrest at G2/M Phase and Induction of Apoptosis. *PLoS ONE* 8(2): e56982. doi:10.1371/journal.pone.0056982.
10. Chilampalli C, Zhang X, Kaushik RS, Young A, Zeman D, Hildreth MB, Fahmy H, Dwivedi C. 2013. Chemopreventive effects of combination of honokiol and magnolol with α -santalol on skin cancer development. *Drug Discoveries & Therapeutics.* 7(3):109-115.
11. Sahdev P, Podaralla S, Kaushik RS, Perumal O. 2013. Calcium Phosphate Nanoparticles for Transcutaneous Vaccine Delivery. *Journal of Biomedical Nanotechnology.* 9(1): 132-141.
12. George S, Circle K, Lindblom S, Vilain S, Rosa AJM, Francis D, Brözel V and Kaushik RS. 2012. Assessment of Toll-like Receptors in the Ileum of Weanling Pigs - Responses to Feed Antibiotic Chlortetracycline and Gnotobiotic Conditions. *J Clin Cell Immunol.* 3:125.
13. Guillermo RF, Zhang X, Kaushik RS, Zeman D, Ahmed SA, Khalifa S, Fahmy H, Dwivedi C. 2012. Dose-response on the chemopreventive effects of sarcophine-diol on UVB-induced skin tumor development in SKH-1 hairless mice. *Marine Drugs.* 10: 2111-25.
14. Sun Z, Huber VC, McCormick K, Kaushik RS, Boon AC, Zhu L, Hause B, Webby RJ, Fang Y. 2012. Characterization of a porcine intestinal epithelial cell line for influenza virus production. *J. Gen Virol.* 93(Pt 9):2008-16.
15. Chen W, Seefeldt T, Young A, Zhang X, Zhao Y, Ruffolo J, Kaushik RS, Guan X. 2012. Microtubule S-Glutathionylation as a Potential Approach for Antimitotic Agents. *BMC Cancer.* 12:245.
16. Deng Q, Song M, Demers A, Weng Y, Lu W, Wang D, Kaushik RS, Yu Q, Li F. 2012. Biochemical characterization of the small hydrophobic protein of avian metapneumovirus. *Virus Research* 167: 297– 301.

Full list of publications available at:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/1dkg9abdbw7Qc/bibliography/48065851/public/?sort=date&direction=ascending>