

## BIOGRAPHICAL SKETCH

Name: Sachin Kumar

Designation: Associate Professor

Department/Institute/University: Department of Biosciences and Bioengineering, Indian Institute of Technology Guwahati

**Education** (Post-Graduation onwards & Professional Career):

S. No.	Institution Place	Degree Awarded	Year	Field of Study
1	Maharashtra Animal and Fishery Sciences University (MAFSU)	B.V.Sc and A.H	2004	Veterinary Sciences and animal husbandry
2	Indian Veterinary Research Institute, Izatnagar, Bareilly	M.V.Sc	2006	Animal Biotechnology (DNA vaccine development)
3	University of Maryland, USA	PhD	2010	Molecular virology

**A. Position and Honors:**

**Position and Employment** (Starting with the most recent employment):

S. No.	Institution Place	Position	From (Date)	To (date)
1	Indian Institute of Technology Guwahati, Guwahati Assam	Associate professor	12 <sup>th</sup> Dec 2016	continue
2	Indian Institute of Technology Guwahati, Guwahati Assam	Assistant professor	24 <sup>th</sup> April 2012	12 <sup>th</sup> Dec 2016
3	University of Pennsylvania, Philadelphia, USA	Postdoctoral Fellow	1 <sup>st</sup> July 2011	March 2012
4	University of Maryland, College Park, Maryland, USA	Postdoctoral Research Associate	18 <sup>th</sup> Dec 2010	31 <sup>st</sup> June 2011
5	University of Maryland, College Park, Maryland, USA	Graduate Research Assistant	12 <sup>th</sup> August 2006	17 <sup>th</sup> Dec 2010
6	Indian Veterinary Research Institute, Izatnagar, Bareilly	Junior Research Fellow	1 <sup>st</sup> Sep 2004	31 <sup>st</sup> July 2006

**Honors/Awards:**

**2019** Indian Association for the Advancement of Veterinary Research Excellence Award.

**2016** NASI SCOPUS Young Scientist Award.

**2012** Young Scientist Research Award, Board of Research in Nuclear Sciences, Department of Atomic Energy.

**2012** Inspire Faculty Fellowship Award, Department of Science and Technology, Government of India.

**2011** Richard B. Rimler Memorial Paper Award, American Association of Avian Pathologists.

**2010** Merial Veterinary Research Award for Graduate Veterinarians, Athens, Georgia (USA).

**2010** Richard F. Davis Memorial Scholarship, College of Agriculture and Natural Resources, University of Maryland, College Park, MD

**2010** Outstanding Graduate Student Award, College of Agriculture and Natural Resources Alumni Chapter, University of Maryland.

**2010** Who's who in American Education (University of Maryland).

**2009** A. S. "Rosy" Rosenwald student poster award for basic research in American Association of Avian Pathologists (AAAP) meeting in Seattle, Washington.

**2009** Avrum Gudelsky Veterinary Graduate Student Award for exemplary graduate research in veterinary medicine.

**2009** **Jacob K. Goldhaber Travel Award** to attend the American Veterinary Medical Association Meeting in Seattle.

**2008** **Travel Grant Award** presented at annual meetings of the American Society for Virology, (Ithaca, NY).

**2007** **Travel Grant Award** presented at annual meetings of the American Society for Virology, (Corvallis, OR).

**2004** **MAFSU Gold medal** out of five colleges and among 400 students in undergraduate studies by securing highest OGPA of **8.86/10.0**.

**2004** **Dr K. S. Deshpande Memorial Gold medal** for securing first rank in undergraduate studies.

**1999** **Self Realization fellowship by Yogoda Satsanga Society of India** for pursuance of undergraduate studies in veterinary sciences (1999-2004).

**B. Publications (Numbers only): Books: 2 Research Papers 93 Patents: 2**

**Selected peer-reviewed publications (Five best publications in chronological order): (\*Corresponding author)**

1. **Kumar S**, Nayak B, Collins PL, Samal SK. (2011) J. Virol, 85(13):6521-34.
2. **Kumar S**, Collins PL, Samal SK. (2010) J. Virol 84(24):13068-70.
3. **Kumar S**, Militino Dias F, Nayak B, Collins PL, Samal SK. (2010) Vet Res 9-10; 41(5):72.
4. **Kumar S**, Nayak B, Samuel AS, Xiao S, Collins PL. and Samal SK. (2010) Virus Res. Apr; 149(1):78-85.
5. **Kumar S\***, Ahi YS, Salunkhe SS, Koul M, Tiwari AK, Gupta PK, Rai A. (2009) Vaccine. Feb 5; 27(6):864-9.

**Five recent publications:**

1. Das M, Baro S, **Kumar S\*** (2019) **Virus Res.** 260: 114-122
2. Shah M, Bharadwaj M, Gupta A, Kumar R, **Kumar S\*** (2019) **Cytokine.** 120:28-40.
3. Kumar R, Kumar V and **Kumar S\*** (2018) **Process Biochem.** 66: 113-119.
4. Khatoon E, Barman NN, Deka M, Hussain MI, Borah P, **Kumar S** (2019) **Acta Virol.** 63(1):60-69.
5. Barman NN, Nath B, Kumar V, Sen A, Dutta TK, Dutta B, Rahman T, **Kumar S\*** (2018) **Transbound Emerg Dis.** 65(6):1959-1967.

**C. Research Support:**

**Completed Research Projects:**

S. No.	Title of Project	Funding Agency	Date of sanction and Duration
1	INSPIRE faculty award for New castle disease virus	DST	17-10-12 for 5Yrs
2	Improved Infectious Bursal Disease Virus Vaccines Using Newcastle Disease Virus Vector	DBT	30-1-13 for 3Yrs
3	Role of N-glycans of Newcastle disease virus fusion protein in the host immune signaling molecules	BRNS	21-12-12 for 3Yrs
4	Role of N-glycans of Japanese encephalitis virus envelope protein in the host immune signaling molecules	ICMR	2013 for 3 yrs

**Ongoing Research Project**

S. No.	Title of Project	Funding Agency	Date of sanction and Duration
1	Development of reverse genetic based recombinant Newcastle disease virus model for understanding immune response in patients infected with Hepatitis C virus	DBT	2016-19
2	Improved classical swine fever virus vaccine and its diagnostics using Newcastle disease virus as a vector	DBT	2016-19