CURRICULUM VITAE

PERSONAL DETAILS		
Name	**Dr. Sachin Kumar**	
Designation	**Young Scientist**	
Address (Residence)	S/o Shri Moolchand Singh, Village- Milak Naipura Post : Rajabpur-244236, Distt.: Amroha, (U.P), INDIA	
Currently Working	Entomology Lab., Division of Parasitology, Indian Veterinary Research Institute, Izatnagar-243122, Bareilly.	
Mobile No.	+91 9897029352 (WhatsApp)	
Email	sachin.amroha@gmail.com	
Category:	General	
Date of birth	2 March, 1983	
Nationality	Indian	

GLOBAL RECOGNITION

Selected in World's Top 2% Scientist Published by Stanford University California, USA, in 2020. Source: Baas, Jeroen; Boyack, Kevin; Ioannidis, John (2020), *"Data for "Updated science-wide author databases of standardized citation indicators"*, Mendeley Data, V2.
Doi: 10.17632/btchxktzyw.2, Table 7

POST DOCTORAL RESEARCH EXPERIENCE

Designation	Duration	Research Project Sanctioned
Young Scientist	2020-2023	"Diagnosis of insecticides resistance in tick population in Uttarakhand and promote a strategies for the control of tick and tick borne disease" funded by Ministry of Health and Family Welfare, Department of Health Research, New Delhi at Entomology Laboratory Division of Parasitology, ICAR-IVRI, Izatnagar-243122. **Total Project cost=30.0 Lakes**
Research Associate	2019-2020	Characterization of insecticides resistance in *Rhipicephalus microplus* population of Uttar Pradesh and formulate a strategy for the control of tick and tick born disease funded by ICMR at CCS University, Meerut-250001**.** **Total Project = 21.48 Lakes**
National Post Doctoral Fellow & P.I.	2017- 2019	"Detection of acaricides resistance in cattle ticks population from the Haryana state and Development of Strategies to Improve Surveillance and their control" working as Principal Investigator of DST-SERB Project at Entomology Lab., Division of Parasitology, ICAR-Indian Veterinary Research Institute, Izatnagar-243122, Bareilly. **Total Project = 20.00 Lakes**
Principal Investigator, DST-SERB/PDF	2016- 2017	"Characterization of chemical acaricides resistance in cattle and bovine ticks to formulate their sustainable control strategy" at MJP Rohilkhand University, Bareilly, awarded by Department of Science and Technology, (DST-SERB), New Delhi. **Total Project = 20.00 Lakes**

ACHIEVEMENT & AWARD/FELLOWSHIP

1.	**Best Science Investigator Award in the field of Entomology, 2018,** In International conference on Agriculture, Allied and Applied Science held on April 28-29, JNU, New Delhi.
2.	**National Post-Doctoral Fellowship award 2017** by DST-Science and Engineering Research Board (SERB), Govt. of India.
3.	**Certificate of Excellence in Research Award:** Research wing for Excellence in Professional Education & Industry-5-Faculty Branding Award-23 July 2017,Kolkata ,India
4.	**National Post-Doctoral Fellowship award 2016** by DST-Science and Engineering Research Board (SERB), Govt. of India.
5.	**Dr. P.D. SETHI'S ANNUAL AWARD (2015) for the 2' Best Research Paper In Pharmaceutical Analysis "Awarded to: Sachin Kumar,** 'Entomology Laboratory, Parasitology Division, Indian Veterinary Research Institute, Izatnagar, Bareilly, U.P. for their paper titled ***"In vitro* acaricidal Properties of Semecarpus Anacardium Fruit and Datura Stramonium Leaf Extracts Against Acaricide Susceptible (IVRI-I Line) and Resistant (IVRI-V Line) *Rhipicephalus (Boophilus) Microplus"*** Published in: Research in Veterinary Science, Volume: 101,Year: 2015, Pages: 69-74.
6.	**"Best Appreciation award-2012"** By Director General- ICAR, Pusa New Delhi-110012 Awarded for development and validation of herbal acaricide formulations effective against ticks under the NAIP Component-4 sub-project ***'Study of herbal acaricides as means to overcome the development of resistance in ticks to conventional acaricides'*** to research team IVRI, Izatnagar and NBRI, Lucknow.
7.	Senior Research Fellow- DBT
8.	Senior Research Fellow-ICAR-IVRI, WHO Funded project
9.	Young Professional-II-ICAR

RESEARCH INTERESTS

Drug development ♦ Insecticides resistance ♦ Tick born disease ♦ Parasitology ♦ Vector control ♦ Tick Vaccine ♦ Integrated Pest Management ♦ Herbal Acarcides ♦ Entomology ♦ Toxicology ♦ Environmental Science♦ Tick Biodiversity ♦ Natural products

TECHNICAL PRPFICIENCY

Drug Development	Development of herbal formulation
Resistance Characterization	Adult Immersion Test (AIT),Larval Immersion Test (LPT),Nymph Immersion Test (NIT),Reproduction Index (RI), Inhibition of Oviposition (IO),
Chemical/Herbal formulation clinical Trial	*In-vitro* and *in-vivo* bioassay of insecticides and herbal formulations as per OECD guideline 402.
Biochemical Bioassay	Esterase assay, Glutathione assay, Monooxygenase assay
Toxicological Bioassay	Acute Toxicity, Chronic Toxicity, Oral Toxicity Study through OECD guidelines (420,404,407), SGPT,SGOT and BUN bioassay
Handlings of animals	Maintenance, handling and treatment of laboratory animals such as: Large animal (Cattle, Buffalo)# Small animals (Mice, Rat and Rabbit)
Drug Residues analysis	HPTLC (high-performance thin layer chromatography), Gas chromatography–mass spectrometry (GC-MS)

Statistical Analysis	Graph Pad-Prism-5 and 6, Statistical Package for the Social Sciences (SPSS), Dose–response data, Regression analysis, ANOVA
Computer Proficiency	Well acquainted with Windows operating system and associated application software (MS-Office) pertaining to text, graphics and analytical processing, Experience in data base search viz. MEDLINE.

ACADEMIC QUALIFICATION

Academic	University/Institution	Year	Subjects
Doctor of Philosophy	Mewar University, Rajasthan	2016	Environmental Science
Master of Science	C.C.S. University, Meerut	2007	Toxicology
Bachelor of Science	C.C.S. University, Meerut	2004	Zoology, Botany, Chemistry
Senior Secondary	G.I.C, Amroha, UP Board	2000	Biology, Physics, Chemistry, English, Hindi
Matriculation	I.M.I.C.Amroha, UP Board	1998	Science, Maths, English, Hindi, Social Studies, Biology

PH.D THESIS TITLE

- Evaluation of resistance status in cattle tick, *Rhipicephalus (Boophilus) microplus* due to chemical pesticides and their residues in meat and milk. (2011-2016)

DETAIL OF PUBPLICATION'S INDEXS

Patent	02	International Conference	05
Technology Developed	01	National Conference	12
International Research Publications	39	International Paper Presentation	05
National Research Publications	11	National Paper Presentation	07
Book Chapter	04	Research Experience	05
Review	02	Book	02
Award	09	**Project Granted**	03
Short Publications	44		
Manual	03		
Total Impact Factor	**71.8**		
Citation Index	**1017**		
h-Index, i-10index	**18, 24**		
NAAS Rating	**240.0**		

TRAINING EXPERIENCE

1.	Twenty one days **ICAR sponsored CAFT Short Course** training workshop on **"Innovative Strategies of Reprogenomics for Research and Teaching"** in Division of Physiology and climatology, on 01 2016 to 21 September 2016 at ICAR-Indian Veterinary Research Institute-Izatnagar-243122 (U.P), India
2.	Twenty one days training workshop on **" Molecular Tools and Bioinformatics Approaches for Livestock Genome Analysis" Sponsored by DBT,** in Central Institute for Research on Cattle (CIRC), Grass Farm Road, Meerut Cantt., U.P, India, on 10.09.2014 to 30.09.2014.
3.	Ten days training workshop on **"Assessment of resistance in ticks to chemical acaricides and processing of plant based anti-tick products"** in Entomology Laboratory, Division of Parasitology, IVRI, Izatnagar, from 23.9.2013 to 3.10.2013
4.	Three months summer training on **HPLC** under the supervision of **Dr. J. K. Malik,** (Joint Director, Research) Head, Division of Toxicology & Pharmacology and **Dr. G.S. Rao,** Senior Scientist**,** Indian Veterinary Research Institute, Bareilly 20.07.2008 to 20.10.2008.
5	One month training workshop on **"Tick rearing, *in-vitro* Testing of Acaricides & Characterization of Acaricide Resistant Genes"** in Division of Parasitology, Indian

	Veterinary Research Institute, Izatnagar, from 27.11.2008 to 26.12.2008
PATENT PUBLICATION'S	
1.	**Novel Antitick Phyto- pharmaceutical formulations (TK-5, TK-10, TK-C) against Tick Infestations in Livestock and Pets Animals (Patent No. TEMP/E-1/59536/2020/DEL)**
2.	**An eco-friendly herbal acaricide to control ticks including acaricide resistant species infesting livestock and pet animals. (Patent No. 2196/DEL/2011) (published on date:1.8.2012)** Srikanta Ghosh, Ajay Kumar Singh Rawat, Mahesh Chandra Sharma, Debdatta Ray, Sharad Srivastava, **Sachin Kumar**
3.	**Acaricidal properties of flower of Matricaria chamomile. (Patent No. 3856/DEL/2012).** Srikanta Ghosh, Ajay Kumar Singh Rawat, Debdatta Ray, Sharad Srivastava, **Sachin Kumar,** Anil Kumar Sharma **(under publication)**
TECHNOLOGY TRANSFER	
1.	**An eco-friendly herbal formulation acaricide to control ticks including acaricide resistant species infesting livestock and pet animals.** Srikanta Ghosh, Ajay Kumar Singh Rawat, Mahesh Chandra Sharma, Debdatta Ray, Sharad Srivastava, **Sachin Kumar (IPR-327146) technology transfer to Ajaybiotech India Ltd. By ICAR-IVRI**
BOOK PUBLISHED	
1.	Editors: **Sachin Kumar** (2016). **Environmental pollution in upper gengatic plan region of India. Lambert Academic Publisher, ISBN: 978-3-659-85855-0**.
2.	Editors: **Sachin Kumar**, Raquel Cossio Bayugar,Anil Kumar Sharma, Estefhan Miranda and A.K Chaubey (2021) **The entomological guide to *Rhipicephalus,* Nova Science Publishers, USA, ISBN: 978-1-53619-619-1**
BOOK CHAPTER	
1.	**Sachin Kumar*,** Aquil Mohmad and Abhijit Nandi (2022). **Intensive use of pesticides in Agriculture and livestock in India and their impact on Environment;** Environmental Issues Problem and Solutions, ABS Books Publisher and Exporter, 978-93-91002-190,pg-36-54
2.	**Sachin Kumar*,** Anil Kumar Sharma, Gajanan M. Chigure, Ashok K. Chaubey and Srikanta Ghosh **(2021). Current status of tick borne diseases in India,** The Entomological Guide to Rhipicephalus;Nova Science Publisher, USA 978-53619-619-1.81-100.
3.	**Anil Kumar Sharma*,** Srikanta Ghosh, Sachin Kumar and Gajanan M. Chigure **(2021). Acaricides Resistance in India: Problem and Mitigation.** The Entomological Guide to Rhipicephalus;Nova Science Publisher, USA 978-53619-619-1. 201-224
4.	S. Ghosh, **S. Kumar**, A. K. Sharma, A. K. S. Rawat (**2013). Herbal acaricide- future of arthropod control of veterinary importance.** A chapter published in a book entitled "**Livestock Management (Products Technology and Health, Pp 425-430), (Ed.** Bharat Bhushan, Published by IVRI - Izatnagar-243122, U.P, India, 592pp
5.	S. Ghosh, G. Nagar, A. K. Sharma, **S. Kumar (2013). Acaricide resistance in tick: possible mode of action and application of monitoring tools.** A chapter published in a book entitled "**Livestock Management (Products Technology and Health, Pp 431-435), (Ed.** Bharat Bhushan, Published by IVRI - Izatnagar-243122, U.P, India, 592pp.
6.	S. Ghosh, G. Nagar, **Sachin Kumar,** Kanak Anjali, Monika Pandey**,** Anil Kumar Sharma and K.G.Ajith **(2013). Acaricide resistance in tick: application of monitoring tools**
7.	S. Ghosh, **Sachin Kumar,** Anil Kumar Sharma (**2014). External parasites of livestock and control measures.** Published by IVRI - Izatnagar-243122, U.P, India,

TECHNICAL REPORT/ MANUAL PUBLISHED	
1.	**Identification, rearing, *in vitro* assay for resistance monitoring and identification of mutation in sodium channel gene of ticks (2008).** Entomology Laboratory, Division of Parasitology, IVRI, Izatnagar. **Pp. 1-24.**
2.	**Tick rearing, *in vitro* testing of acaricides and characterization of acaricide resistant genes. (2008).** Entomology Laboratory, Division of Parasitology, I.V.R.I., Izatnagar. **Pp. 1-41**
3.	**Assessment of resistance in ticks to chemical acaricides and processing of plant based anti tick products (2013).** Entomology Laboratory, Division of Parasitology, Indian Veterinary Research Institute, Izatnagar and Division of Pharmacognosy & Ethnopharmacology, National Botanical Research Institute, Lucknow. **Pp. 1-90**
4.	**Study of herbal acaricides as means to overcome the development of Resistance in ticks to conventional acaricides (2014).** Entomology Laboratory, Division of Parasitology, Indian Veterinary Research Institute, Izatnagar. **ICAR-IVRI, Component-4, Pp-1-73.**
RESEARCH PUBLICATIONS	
	INTERNATIONAL
1.	**Kumar, S.,** Sharma, A. K., Kumar, B., Shakya, M., Patel, J. A., Kumar, B., ... & Ghosh, S. **(2021).** Characterization of deltamethrin, cypermethrin, coumaphos and ivermectin resistance in populations of *Rhipicephalus microplus* in India and efficacy of an antitick natural formulation prepared from *Ageratum conyzoides.* **Ticks and Tick-borne Diseases, 101818. ISSN: 1877-959X,** **Impact Factor = 3.74, (NAAS = 9.6),** **https://doi.org/10.1016/j.ttbdis.2021.101818**
2.	Gupta, S., Gupta, S., & **Kumar, S* (2021).** Deltamethrin and coumaphos resistance and role of biochemical mechanisms in camel tick, *Hyalomma dromedarii* collected from Haryana state of India. **International Journal of Tropical Insect Science, 1-6. ISSN: 1742-7592** **Impact Factor = 0.836, (NAAS = 6.8)** **https://doi.org/10.1007/s42690-021-00542-3**
3.	Gupta, S., Gupta, S., & **Kumar, S* (2021).** Cypermethrin resistance in *Hyalomma anatolicum* and *Rhipicephalus microplus* ticks of arid and semi-arid zone of Haryana, a northern state of India. **International Journal of Tropical Insect Science, 41(1), 703-709. ISSN: 1742-7592** **Impact Factor = 0.836, (NAAS = 6.8)** **https://doi.org/10.1007/s42690-020-00259-9**
4.	Shakya, M., Singh, M., **Kumar, S*.,** Jayraw, A. K., Jatav, G. P., Agrawal, V., & Jamara, N. **(2021).** Efficacy of commercially available chemical compound used against management of tick infestation in Mhow, Madhya Pradesh. **International Journal of Tropical Insect Science, 1-7. ISSN: 1742-7592** **Impact Factor = 0.836, (NAAS = 6.8)** **https://doi.org/10.1007/s42690-020-00424-0**
5.	**Kumar, S*.,** Gupta, S., Mohmad, A., Fular, A., Parthasarathi, B. C., & Chaubey, A. K. **(2021).** Molecular tools-advances, opportunities and prospects for the control of parasites of veterinary importance. **International Journal of Tropical Insect Science, 41(1), 33-42. ISSN: 1742-7592** **Impact Factor = 0.836, (NAAS = 6.8)** **https://doi.org/10.1007/s42690-020-00213-9**
6.	Gupta, S., Gupta, S., & **Kumar, S* (2021**). Emergence of fipronil resistance in cattle ticks *Rhipicephalus microplus* and *Hyalomma anatolicum* collected from Haryana, India. **International Journal of Tropical Insect Science, 41(1), 401-407. ISSN: 1742-7592** **Impact Factor = 0.836, (NAAS = 6.8)**

	https://doi.org/10.1007/s42690-020-00218-4
7.	Shakya, M., **Kumar, S.,** Fular, A., Upadhaya, D., Sharma, A. K., Bisht, N., Nandi, A. & Ghosh, S. **(2020).** Emergence of fipronil resistant *Rhipicephalus microplus* populations in Indian states. **Experimental and Applied Acarology, 80, 591–602, ISSN:1572-9702,** **Impact Factor = 1.77, (NAAS = 7.6), Citation:** **https://doi.org/10.1007/s10493-020-00481-7**
8.	Fular, A., Gupta, S., Sharma, A. K., **Kumar, S.,** Upadhaya, D., Shakya, M., & Ghosh, S. **(2020).** Standardization of tick specific biochemical tools for estimation of esterases, monooxygenases and glutathione S-transferase for characterization of acaricide resistance. **Pesticide Biochemistry and Physiology. 164 , 130–139, ISSN: 0048-3575** **Impact Factor = 2.75, (NAAS = 8.5), Citation:2** **https://doi.org/10.1016/j.pestbp.2020.01.008**
9.	Niaz, S., Raqeeb, A., Khan, A., Amir, S., Zhu, L., & **Kumar, S*. (2020).** Status of human brucellosis in district Malakand, Khyber Pakhtunkhwa, Pakistan. **Journal of Infection and Public Health. ISSN: 1876-0341** **Impact Factor = 3.74, (NAAS = 9.2), Citation:2** **https://doi.org/10.1016/j.jiph.2019.12.013**
10.	**Kumar, S*.** Jadhao, S. G., Sanyal, P. K., Borkar, S. D., Chigure, G. M., Jadhav, N. D., Shirsikar, P. M. **(2020).** Prevalence of ixodid ticks infesting in cattle of Chhattisgarh state, an east-central part of India. **International Journal of Tropical Insect Science,** 40(4):1-4, **ISSN: 1742-7592** **Impact Factor = 0.536, (NAAS = 6.2), Citation:** **https://doi.org/10.1007/s42690-020-00153-4**
11.	Upadhaya, D., Kumar, B., **Kumar, S.,** Sharma, A.K., Fular, A., Bisht, N., Srivastava, S., Boruah, R.R., Nagar, G., Shakya, M. and Nath, T., **(2020).** Characterization of acaricide resistance in Rhipicephalus microplus populations infesting cattle in northeastern India and assessment of local plant extracts for tick management. **Veterinary Parasitology, 277, p.109011. ISSN: 0304-4017** **Impact Factor = 2.03, (NAAS = 7.8), Citation:** **https://doi.org/10.1016/j.vetpar.2019.109011**
12.	Kumar, B., Misra, A., **Kumar, S.,** Rawat, A.K.S., Rawat, Y.S., Ghosh, S. and Srivastava, S., **(2019).** Antitick potential and chemical variability among *Ageratum conyzoides* L. germplasms collected from Eastern and Western Ghats of India. **International Journal of Acarology**, **pp.1-9**. **ISSN: 0164-7954** **Impact Factor = 1.23, (NAAS = 7.1), Citation:5** **DOI: 10.1080/01647954.2019.1677772**
13.	Khan, A., Nasreen, N., Niaz, S., Ayaz, S., Naeem, H., Muhammad, I., Said, F., Mitchell, R.D., de León, A.A.P., Gupta, S. and **Kumar, S., (2019).** Acaricidal efficacy of *Calotropis procera* (Asclepiadaceae) and *Taraxacum officinale* (Asteraceae) against Rhipicephalus microplus from Mardan, Pakistan. **Experimental and Applied Acarology, 78(4), pp.595-608. ISSN:1572-9702,** **Impact Factor = 1.77, (NAAS = 7.6), Citation:06** **DOI: 10.1007/s10493-019-00406-z**
14.	Sagar, S.V., Saini, K., Sharma, A.K., **Kumar, S.,** Kumar, R., Fular, A., Shakya, M., Upadhaya, D., Nagar, G., Shanmuganath, C. and Samanta, S., **(2019).** Acaricide resistance in Rhipicephalus microplus collected from selected districts of Madhya Pradesh, Uttar Pradesh and Punjab states of India. **Tropical animal health and production, pp.1-8. ISSN:0049-4747** **Impact Factor = 1.34, (NAAS = 7.8), Citation:06** **DOI: 10.1007/s11250-019-02048-0**

15.	Shakya, M., Sikrodia, R., Parthasarathi, B.C., Jayraw, A.K., Singh, M., Upadhaya, D.,Fular, A., Bisht, N., and Kumar, S., **(2019).** Cat flea (Ctenocephalides felis felis) and Oriental cat flea (Ctenocephalides orientis) infestation as a emerging nuisance to human population. **Journal of Entomology and Zoology Studies; 7(3): 190-192, P-ISSN: 2349-6800** **Impact Factor = 0.48, (NAAS = 5.4), Citation:**
16.	Fular, A., Shakya, M., Singh, M., Upadhaya, D. and **Kumar, S., (2019).** Therapeutic management of mange infestation in cat (Felis catus): a case report. **International Journal of Tropical Insect Science, 39(4), pp.291-294. ISSN: 1742-7592** **Impact Factor = 0.48, (NAAS = 5.4), Citation:** **DOI: 10.1007/s42690-019-00037-2**
17.	Chigure, G.M., Sharma, A.K., **Kumar, S.,** Fular, A., Sagar, S.V., Nagar, G., Upadhaya, D., Saravanan, B.C., Kumar, R. and Ghosh, S., **(2018).** Role of metabolic enzymes in conferring resistance to synthetic pyrethroids, organophosphates, and phenylpyrazole compounds in *Rhipicephalus microplus.* **International Journal of Acarology, 44(1), pp.28-34. ISSN: 0164-7954, Citation:** **Impact Factor = 1.23, (NAAS = 7.1)** **https://doi.org/10.1080/01647954.2017.1400588**
18.	Nagar, G., Sharma, A.K., **Kumar, S.,** Saravanan, B.C., Kumar, R., Gupta, S., Kumar, S. and Ghosh, S., **(2018).** Molecular mechanism of synthetic pyrethroid and organophosphate resistance in field isolates of *Rhipicephalus microplus* tick collected from a northern state of India. **Experimental and Applied Acarology, 75(3), pp.319-331. ISSN:1572-9702,** **Impact Factor = 1.77, (NAAS = 7.6)** **https://doi.org/10.1007/s10493-018-0265-8**
19.	Nandi, A., Sagar, S.V., Chigure, G., Fular, A., Sharma, A.K., Nagar, G**., Kumar, S.,** Saravanan, B.C., Ghosh, S., **(2018).** Determination and validation of discriminating concentration of ivermectin against *Rhipicephalus microplus.* **Veterinary Parasitology, 250: 30-34. ISSN:0304-4017. Citation:** **Impact Factor =2.61, (NAAS =8.4)**
20.	Fular, A., Kumar Sharma, A.K., **Kumar, S.,** Nagar, G., Chigure, G., D.D. Ray, Ghosh,S., Rate bhi **(2018).** Establishment of a multi-acaricide resistant reference tick strain (IVRI-V) of *Rhipicephalus microplus.* **Ticks and Tick-borne Diseases, 9(5):1184-1191, ISSN: 1877-959X,** **Impact Factor = 3.74, (NAAS = 9.6), Citation:** **We link: Doi.org/10.1016/j.ttbdis.2018.04.014**
21.	**Kumar S*.,** Gaur R.S., Sangwan A.K., Sangwan N., **(2017).** Comparative study of esterases in deltamethrin and diazinon resistant *Rhipicephalus microplus* and *Hyalomma anatolicum* ticks collected from the Trans-Gangetic plains of India. **Experimental & Applied Acarology,** 73**(1): 115–127. ISSN:1572-9702,** **Impact Factor = 1.77, (NAAS = 7.6), Citation:** **Web link: DOI 10.1007/s10493-017-0175-1**
22.	**Kumar S.*** Gupta S., VijayKumar J., Harkal D., **(2017).** Crimean Congo Hemorrhagic Fever (CCHF) – A Chronicle of Human, Tick and Animal. **Annals of Clinical Cytology and Pathology, 3(6): 1073. ISSN: 2475-9430, Citation:**
23.	Ghosh S., Gupta S., K.G. Ajith Kumar, Sharma, A.K., **Kumar S.,** Nagar G., Kumar Rinesh, Paul S., Fular A., Chigure G., Nandi A., Manjunathachar H.V., Mohammad A., Verma M.R., B.C. Saravanan, Ray D.D. **(2017).** Characterization and establishment of a reference deltamethrin and cypermethrin resistant tick line (IVRI-IV) of *Rhipicephalus (Boophilus) microplus.* **Pesticide Biochemistry and Physiology, 138; 66–70. ISSN: 0048-3575** **Impact Factor = 2.54, (NAAS = 8.2), Citation:** **Web link: http://dx.doi.org/10.1016/j.pestbp.2017.03.002**
24.	Gupta S., K. G. Ajith Kumar, Sharma A.K., Nagar G, **Kumar S.,** B. C. Saravanan, Gandham

	Ravikumar, Ghosh S, **(2016).** Esterase mediated resistance in deltamethrin resistant reference tick colony of *Rhipicephalus (Boophilus) microplus).* **Experimental & Applied Acarology, 69(2):239-248. ISSN:1572-9702,** **Impact Factor = 1.77, (NAAS = 7.6), Citation:** **Web link: DOI 10.1007/s10493-016-0032-7**
25.	Gaurav N., Anjali K., Gupta S., **Kumar S.,** B.C., Saravanan, Rai A., and Ghosh S., **(2016).** Over-expression of esterase in acarcide resistant isolates of *Rhipicephalus (Boophilus) Microplus.* **International Journal of Science, Environment and Technology, 5(5): 3457 -3465.** **ISSN: 2278-3687.** **Impact Factor = 0.16, (NAAS = 3.98), Citation:** Web link: **http://www.ijset.net**
26.	Gaur R.S., Sangwan A.K., Sangwan N., **Kumar S., (2016).** Acaricide resistance in *Rhipicephalus (Boophilus) microplus* and *Hyalomma anatolicum* collected from Haryana and Rajasthan states of India. **Experimental & Applied Acarology, 69(4) 487–500. ISSN:1572-9702,** **Impact Factor = 1.77, (NAAS = 7.6), Citation:** **Web link: DOI 10.1007/s10493-016-0046-1**
27.	K.G. Ajith Kumar, B.Tayade Amol, Kumar R, Gupta S, Sharma A K, Nagar G, Tewari SS, Kumar B, Rawat A.K.S., Srivastav S, **Kumar S,** t Ghosh S **(2016).** Chemo-profiling and bioassay of phytoextracts from Ageratum conyzoides for acaricidal properties against *Rhipicephalus (Boophilus) microplus* (Acari: Ixodidae) infesting cattle and buffaloes in India. **Ticks and Tick-borne Diseases, 7:342-349. ISSN: 1877-959X,** **Impact Factor = 2.9, (NAAS =8.6), Citation:** Web link: http://dx.doi.org/10.1016/j.ttbdis.2015.12.005
28.	**Kumar S.***, Ghosh S, Tiwari S.S, Kumar B, Srivastava S, Sharma A K, Rawat A.K.S., **(2015).** Identification of potential plants extracts for anti-tick activity against acaricide resistant cattle tick, *Rhipicephalus (Boophilus) microplus* (Acari: Ixodidae). **Experimental & Applied Acarology. 66(1):159-71. ISSN:1572-9702,** **Impact Factor = 1.77, (NAAS = 7.6), Citation:** Web link: DOI 10.1007/s10493-015-9890-7
29.	Ghosh, S., Kumar, R., Nagar, G., **Kumar, S.,** Sharma, A.K., Srivastav, A., Kumar, S., Ajith Kumar, K.G., Saravanan, B.C. **(2015).** Survey of acaricides resistance status of *Rhipiciphalus (Boophilus) microplus* collected from selected places of Bihar, an eastern state of India. **Ticks and Tick-borne Diseases, 6: 668–675. ISSN: 1877-959X,** **Impact Factor = 2.9, (NAAS = 8.6), Citation:**
30.	Ghosh S., Tiwari S.S., Sharad Srivastava S., **Kumar S,** Sharma A.K., Nagar G. and Rawat A.K.S.,**(2015).** *In vitro* acaricidal properties of *Semecarpus anacardium* fruit and *Datura stramonium* leaf extracts against acaricide susceptible (IVRI-I line) and resistant (IVRI-V line) *Rhipicephalus (Boophilus) microplus.* **Research in Veterinary Science, 101: 69-74. ISSN: 0034-5288, Citation:** **Impact Factor =1.6, (NAAS = 7.4)**
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Sequences No. Sodium Channel Domain II S4-5, linker: HM579824, HM579822, JQ693154. **Sodium Channel Domain III S6:** HQ157236, JQ693158. **Carboxyl esterase:** GU830967, GU830966, GU830965, GU830964, GU830963, GU830961, GU830960, JF927710, JF927711, JX392012. **AchE3:** GU944963, GU944962, GU944961, GU944960. **AchE2:** GU944959, GU944958, GU944957, GU944956, GU944955, GU944954, GU944953, GU944952, GU944951, GU944950, JN408496, JN624772, JN624773, KC493616, KC493617, KC493618, KC493619.**16s ribosomal RNA:** GU817006, GU222462, GU323287, GU323288, GU722603, GU722604, GU722605, GU722606, HM536975, HM536971. **GST:** HQ337616, HQ337617, HQ337618, HQ337619, HQ337620, HQ337622, HQ337623, HM012801	

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PAPER/POSTER PRESENTATION IN INTERNATIONAL CONFERENCE	
1.	**XI Symposium on Vectors and Vector Borne Diseases, 15th -17th October 2011, Jabalpur.** Sachin Kumar, Anil Kumar Sharma, Rinesh Kumar, D. D. Ray and Srikanta Ghosh. Determination of cypermethrin resistance in *R.(B.) microplus* ticks collected from six different agro-climatic regions of India.
2.	**XI Symposium on Vectors and Vector Borne Diseases, 15th -17th October 2011, Jabalpur.**Anil Kumar Sharma, Sachin Kumar, D.D. Ray & Srikanta Ghosh. Determination of LC_{50} and discriminating concentration of fipronil, fenvalerate and malathion for characterization of acaricide resistance in *Rhipicephalus (Boophilus) microplus.*
3.	**XI Symposium on Vectors and Vector Borne Diseases, 15th -17th October 2011, Jabalpur.** Shashi Shankar Tiwari, Sachin Kumar, Anil K. Sharma, D.D. Ray, A.K.S. Rawat, Shubha Rastogi & S. Ghosh. Ricinus communis: A potent herbal acaricide for tick infestations on bovine calves.
4.	**International Conference on Emerging Trends in Engineering and Technology April 6-7, 2012, Moradabad.** Sachin Kumar, Anil Kumar Sharma, Srikant Ghosh, Devendra Kumar Jain (2012).Pesticides use in agriculture and livestock animals with their impacts on environment in India.
5.	**International Conference On"Agriculture, Foods Sciences & Environmental Technology for Sustainable Global Development" (AFSET – 2012.)** Organized by Krishi Sanskriti 28th and 29th October at Jawaharlal Nehru University, New Delhi. Sachin Kumar, Sumer Singh Rawat and Deepak Singh (2012). Current status of forest covers in India & its conservation by Indian constitution: A Review
PAPER/POSTER PRESENTATION IN NATIONAL CONFERENCE	
1.	**21st National Congress of Parasitology, 14-16, Nov. 2009, Chandigarh. Sachin Kumar,** Anil K. Sharma, Sharad Srivastava, Subha Rastogi, Shashi Shankar Tiwari, Mahima Singh, Rinesh Kumar, Sauvik Paul, K.G. Chandini, D.D. Ray, Pallab Chaudhuri, D. Mondal, O.K. Raina, Ajay Kumar Singh Rawat and S. Ghosh. Identification of herbal extract as acaricide against Rhipicephalus (Boophilus) microplus.(pp 181).
2.	**National Conference on Environment and Biodiversity of India, 30-31 Dec., 2011, New Delhi**. **Sachin Kumar** & Anil K. Sharma (2011): Pesticides uses in environment and their impacts: A Review.
3.	**National Seminar on Emerging Trends in Biotecnological Research (ETBR) October 28, 2012, Gaziabad** (PAPER ID: 10/MI/AP/PUB/001/2). Sachin Kumar, Devendra Kumar Jain, Sumer Singh Rawat and Deepak Singh (2012). Survey of pesticides used in the control of agriculture pest and ectoparasites on animal in India.
4.	**National conference on Environment problem and their Remedial Measures (EPRM-2012, on date 24-26 March C.C.S. University, Meerut).** Sachin Kumar and Anil Kumar Sharma (2012). Risk assessment of health hazards in human due to excessive use of pesticide in India.
5.	**National Seminar on Industrial Pollution Environment and Biodiversity (NSTPEB: 17-18 Feb. 2012, Hindu college Mordabad.** Sachin Kumar, Sweta Gupta, Devendra Kumar Jain ."Intensive use of pesticides in agriculture and their impacts on animal production and human health
6.	**National conference on "Advance in Bioscience and Health Education " 11th march 2013, Department of zoology, Bareilly college, Bareilly,U.P.** Sachin Kumar, Gaurav Nagar, Devendra Kumar jain (2013) "Risk factors of pesticides residues in milk and meat in India."
7.	**National conference on "Climate change, Environment and Economic Development" 7-8th Feb.2014, Department of Humanities, M.J.P Rohilkhand University, Bareilly,U.P.,** R.S Gaur and Sachin Kumar "Monitoring of acaricides resistance in cattle ticks collected from

	Trans Gangetic plain regions of India
8.	**National conference on " Environmental issues for socio ecological development (EISED-2015), 25-26th Feb. 2015 Department of Botany, Bareilly College, M.J.P Rohilkhand University, Bareilly, U.P. (Page No.-109).** Sachin Kumar, Sumer Singh Rawat and Deepak Singh (2015). Chemical control of ectoparasites on animals and the resistance of these parasites to insecticides: A Review.
INTERNATIONAL CONFERENCE ATTEND	
1.	XI Symposium on Vectors and Vector Borne Diseases, 15^{th} -17^{th} October 2011, Jabalpur.
2.	International Conference on Emerging Trends in Engineering and Technology April 6-7, 2012, TMU, Moradabad.
3.	International Conference On"Agriculture, Foods Sciences & Environmental Technology for Sustainable Global Development" (AFSET – 2012.), 28th and 29th October ,2012,JNU ,New Delhi
4.	International Conference on Recent Trends in Climate Change Researches vis-à-vis Biodiversity, 3-4 December,2012 at Department of Animal Science, MJP Rohilkhand University, Bareilly
5.	The XXXII Annual Conference of Society of Toxicology (STOX), India and International Symposium on New Frontiers in Toxicology,5-7 December 2012, CSIR,Lucknow,U.P
NATIONAL CONFERENCE ATTEND	
1.	21^{st} National Congress of Parasitology, 14-16, Nov. 2009, Chandigarh.
2.	National Conference on Environment and Biodiversity of India, 30-31 Dec., 2011, New Delhi.
3.	National symposium on Bioinformatics in Drug Desiging challenges and opportunities in Veterinary Drug Development.(Indian Society of Veterinary pharmacology and Toxicology-SVPT) 17-19 Nov. 2011) at Division of Pharmacology and Toxicology, IVRI, Izatnagar.Bareilly
4.	National conference on Environment problem and their Remedial Measures (EPRM-2012, on date 24-26 March C.C.S. University, Meerut).
5.	National Seminar on Industrial Pollution Environment and Biodiversity(NSTPEB: 17-18 Feb. 2012, Hindu college Mordabad.
6.	National Seminar on Emerging Trends in Biotecnological Research (ETBR) October 28, 2012, Gaziabad.
7.	National Seminar on Advances in Biotechnology for Sustainable Global Environment . (NSLE-2012), D.N. College Meerut.
8.	National Conference on Recent advances in Chemistry,2012 ,C.C.S.University, Meerut
9.	2^{nd} National Seminar on Managment of salt affected soils and waters: Challenges of the 21^{st} centuary organised by CSSRI, Regional Research Station, Lucknow, Uttar Pradesh, March 16-17,2012
10.	XXIII National Congress of Veterinary Parasitology on Parasitology Today: From Environmental and Social Impact to the application of Geoinformatics and Modern Biotechnology, December 12-15, 2012 at Department of Parasitology, Assam Agricultural University, Guwahati, Assam.
11.	National conference on "Advance in Bioscience and Health Education " 11^{th} march 2013, Department of zoology, Bareilly college, Bareilly, U.P
12.	National conference on " Environmental issues for socio ecological development (EISED-2015), 25-26th Feb. 2015 Department of Botany, Bareilly College, M.J.P Rohilkhand University, Bareilly, U.P.
MEMBER/REVIEWER IN JOURNAL EDITORIAL BOARDS	

1.	Albert Science International Organization (ASIO): Membership No.-ASIO/MEM/2015/164
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3.	ASIO-Journal of Pharmaceutical Herbal Medicine Research
4.	ASIO-Journal of Drug Delivery
5.	ASIO- Journal of Analytical Chemistry
LIFE TIME MEMBERSHIP	
1.	Indian Science Congress Association
2.	National Academy of Vector Borne Disease, Bhubaneswar(NAVBD) **(Membership No. 221)**
2.	Society of Toxicology, Lucknow **(Membership No.932L)**
3.	Life member of Environmental Mutagen Society
4.	Society Of United Life science Students (SOULS)
5.	Asia-Pacific Chemical, Biological & Environment Engineering Society **(APCBEES) (Membership No.200389)**
6.	Albert Science International Organization (ASIO): **Membership No.-ASIO/MEM/2015/164**
NATURE OF WORK & KNOWLEDGE OF EXPERIMENT TECHNIQUES	
1.	Rearing of one host and two tick *Rhipicephalus (Boophilus) microplus* & *Hyalomma anatolicum.*
2.	*In vivo* trials of herbal formulations on calves.
3.	Safety analysis of herbal extracts/ fractions/ sub fractions on rabbits.
4.	Toxicological based bioassay (lethal concentrations, Sub- lethal doses, acute & chronic bioassay).
5.	Handling of large and small animals.
6.	Collection of representative tick samples from different places of India.
7.	Characterization of representative tick samples.
8.	Biochemical analysis of enzymes responsible for acaricide resistance in ticks.
9.	*In vitro* testing of chemical acaricides.
10.	Screening and testing of herbal extracts against eggs, larvae, nymphs and adult ticks.
11.	Data analysis, statistical analysis of raw research data, preparation of project reports, presentations, manuscript writing etc.
12.	Basic knowledge of Chromatography
13.	Preparation of herbal extracts
14.	Histology of animal tissues
15.	Handling, care and maintenance of large and small animals.

KNOWN REFERENCES

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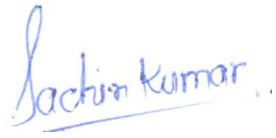
DECLARATION

I hereby declare that all the above informations are true to the best of my knowledge



(Dr. Sachin kumar)