

## Dr Devendra Swarup: Brief Resume

**Name :** Dr Devendra Swarup

**Organization and Address:** Central Institute for Research on Goats ( ICAR),  
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**Gender:** Male

**Date of Birth:** 01-01-1951

### Education

- 1986: **PhD in Veterinary Medicine**, GB Pant University of Agriculture and Technology (GBPUAT), Pantnagar, India (ICAR Senior fellowship & OGPA:5/5)
- 1977: **Master of Veterinary Science (Medicine)**, Chandra Shekhar Azad University of Agriculture and Technology (CSAUAT), Mathura, India ( Merit Scholar)
- 1975: **Bachelor of Veterinary Science and Animal Husbandry (BVSc & AH/ DVM)**, Agra University, Agra, India ( Gold Medallist)

### Employment record\*

Designation	Pay band	Organization/ Institute	Period	
			From	To
Director	PB IV+ GP Rs10,000+ NPA	CIRG (ICAR), Makhdoom	19-2-2010	present
Head of Division*	PB IV+ GP Rs10,000+ NPA	IVRI (ICAR) Izatnagar	11.12.2001	19-2-2010
Principal Scientist	PB IV+ GP Rs10,000+ NPA	IVRI (ICAR) Izatnagar	27.7.1998	19-2-2101
Professor & Head	Rs. 16400-22400 + NPA	RG Veterinary College Pondicherry	15.12.1998	29.8.1999
Sr. Scientist	Rs. 12300-18300 (3700-5700)+ NPA	IVRI (ICAR) Izatnagar	1.7.1984	26.7.1998
Scientist	Rs. 700-1300	IVRI (ICAR) Izatnagar	21.8.1978	30.6.1984

\*Also **Scientist Incharge**, Centre for Wildlife Conservation, Management and Disease Surveillance Indian Veterinary Research Institute, Izatnagar (UP), India (September 2002-2-3-2010)

### **Teaching and Mentoring of Post-graduate (MVSc/ PhD) Resaerch**

- **Chairman/ Advisor**, 8 PhD and 11 MVSc scholars (current or past)
  - **Member**, Research Advisory Committees, more than 30 PhD/ MVSc students
  - December 2002-present; **Chairman**, Board of Study, Faculty of Veterinary Medicine at IVRI
  - **Director**, Indian Council of Agriculture Research (ICAR) Summer School programmes (21 days), (i) Metabolic and Deficiency Diseases in Dairy Animals; (ii) Wildlife Health Management and Forensics
  - July 09- at present; **Chairman**, Standing Committee on Matters Relating to PG faculty, IVRI
  - April 07- 09; **Chairman**, Standing Committee on Course Curricula & Academic Affairs, IVRI
  - May 20005- April 07; **Member**, Standing Committee on Students Problems and Discipline at IVRI
  - Instructor of MVSc/ PhD level courses in **Veterinary Medicine**
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### **Research grants and projects (During last 5 Yrs)**

#### ***Principal Investigator and National coordinator***

- **D Swarup**, S Dey, Mohini Saini, Pankaj Kumar, U De, AK Sharma (2009-Contd.) Outreach programme on Ethnoveterinary Medicine. Funded by Indian Council of Agricultural Research. Rs 100 million
- **D Swarup**, S Dey, R Mukherjee, AK Sharma, MC Sharma, DB Mondal, Pankaj Kumar. Network Project on Ethnoveterinary Medicine (September 2005- June 2009), AP Cess Fund Scheme, Indian Council of Agricultural Research. Rs 17.73 million
- **D Swarup**, RC Patra, Mohini Saini, Vibhu Prakash, SN Sarkar ( July 2004- June 2006) Safety testing of Meloxicam on Gyps vultures and other scavenging birds and tissues residues on Meloxicam in buffaloes, Royal Society for Protection of Birds (UK) and Bombay Natural History Society (India). Rs 1.15 million
- **D Swarup**, A Das, Mohini Saini, AK Sharma and others. National Referral Centre for wildlife health care (April-2007- present), Central Zoo Authority, Ministry of Environment and Forests, Government of India. Rs 3.36 million

#### ***Principal Investigator***

- **D Swarup**, A Das, Mohini Saini, AK Sharma, S Dey, Pankaj Kumar (September 2006- June 2009). Developing standards, guidelines and protocol on disease diagnosis and care of wild animals in Indian Zoos, Central Zoo Authority, Ministry of Environment and Forests, Government of India. Rs 1.93 million
  - **D Swarup**, RC Patra, Ram Naresh (April 2002- December 2004). Residue of toxic metal pollutants in livestock system, their effects and containments Competitive Grant Scheme under National Agricultural Technology Programme (NATP), Indian Council of Agricultural Research. Rs 1.664 million
  - **D Swarup**, Ram Naresh, NN Pandey, DB Mondal, R Mukherjee, HPS Arya, Mahesh Kumar (April 2002-December 2004). Collection, documentation and validation of indigenous technical knowledge Mission Mode Project under National Agricultural Technology Programme (NATP), Indian Council of Agricultural Research. Rs 1.54 million
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### **Synergistic Activities: (selected)**

- **Member-** Institute Advisory Committee ( 2010-present) National Veterinary Ayurvedic Research Institute and Hospitals ( Department Health &FW Govt of India)
- **Member** (2006-present), Committee for the Purpose of Control and Supervision of Experiments on Animals, Ministry of Environment and Forests, Government of India New Delhi
- **Member** (2002-present), Expert Committee on Import of Veterinary Drugs, Ministry of Agriculture, , Government of India New Delhi
- **Member** (2007- present), Expert group to consider research Grant Proposals under thematic Areas of Conservation and Management of Wildlife and Animal welfare, Ministry of Environment and Forests, , Government of India, New Delhi
- **Member** (2007-2009), Advisory Committee on Vulture Conservation and Monitoring, Ministry of Environment and Forests, , Government of India, New Delhi
- **Member** (2008- present), Scientific Advisory Committee, National Centre for Laboratory Animals, National Institute of Nutrition, (ICMR), Hyderabad, India
- **Member** (2002- 2010), Academic Council, Indian Veterinary Research Institute, Izatnagar
- **Member** (2002- present), Executive Council Indian Veterinary Research Institute, Izatnagar
- **Member** (2003-2006), Board of Management, Indian Veterinary Research Institute, Izatnagar
- **Member** (1988-90), Editorial board of Indian Journal of Veterinary Medicine
- **Member** (1994-96), Editorial Board of Indian Journal of Toxicology
- **Peer Reviewer** in scientific journals- Environmental Pollution, Research in Veterinary Science, Small Ruminants Research, Environmental Toxicology and Pathology, Indian Journal of Animal Sciences, Indian Journal of Veterinary Research, Indian Journal of Toxicology, Indian Journal of Parasitology, Indian Journal of Veterinary Medicine

### **Honours, Awards and Professional Society Memberships (selected)**

#### *Honours*

- **President** (2006- 2008), Indian Society for Veterinary Medicine
- **Vice-President** –( 2010- Present)- Indian Society for Sheep and Goat Production and Utilization
- **Editor** (1998-2002), Indian Journal of Veterinary Medicine
- **Fellow**, Indian Association for Advancement of Veterinary Research
- **Fellow**, Society of Toxicology, India
- **Fellow**, Indian Society for Veterinary Medicine (FISVM)

**Awards**

- **Fellow Indian Society for Veterinary Medicine** (2009), Indian Society for Veterinary Medicine
- **PL Naryana Rao Gold Medal** (2008), Indian Society for Veterinary Medicine
- **Shri Ram Lal Agarwal National Award** (2004-05), Indian Herbs and Research Supply Co., Saharanpur (UP) India
- **Merit Award** (2002), Indian Veterinary Research Institute
- **Best Teacher Award** (2001-02), Indian Veterinary Research Institute
- **Hariom Ashram Trust Award** (1995-96) for Research in Herbal Medicine, Indian Council of Agricultural Research, New Delhi
- **Ram Lal Agarwal Gold Medal** (1995-96), Indian Herbs and Research Supply Co. Saharanpur (UP) India

**Memberships of professional societies**

- **Life Member**, Indian Veterinary Association
- **Life Member**, Indian Society for Veterinary Medicine
- **Life Member**, Indian Association for Advancement of Veterinary Research
- **Life Member**, Society of Toxicology, India
- **Life Member**, Indian Society for Sheep and Goat Production and Utilization

**Important Publications ( During the last 10 years)**

1. Ranjan R, **Swarup D** and Patra RC (2009) Oxidative stress indices in erythrocytes, liver and kidneys of fluoride exposed rabbits. *Fluoride* **42**: 83-88
2. Ranjan R, **Swarup D**, Patra RC, Chandra V (2009). *Tamarindus indica L.* and *Moringa oleifera M.* extract administration ameliorates fluoride toxicity in rabbits. *Indian Journal of Experimental Biology* **47**: 900-905
3. Bhutia YD, Saini M, Sharma AK, Sharma B and **Swarup D** (2009). Efficacy of *Curcuma longa* extract against DMBA induced skin cancer. *Journal of Applied Animal Research* **36**:291-296
4. Dey S, Saxena A, Dan A, **Swarup D** (2009). Indian medicinal herb: a source of lead and cadmium for humans and animals. *Archive of Environmental and Occupational Health* **64**:164-167
5. Ranjan R, **Swarup D**, Bhardwaj, B and Patra, RC (2008) Level of certain micro and macro minerals in blood of cattle from fluoride polluted localities of Udaipur, India. *Bulletin of Environmental Contamination and Toxicology DOI* **10.1007/s00128-008-9492-8**
6. Patra RC, **Swarup D**, Kumar P, Nandi D, Naresh R and Ali SL (2008) Milk trace elements in lactating cows environmentally exposed to higher level of lead and cadmium around different industrial units *The Science of the Total Environment* **404**: 36 – 43
7. Panda D, Patra RC, Nandi S, **Swarup D** (2008). Oxidative stress indices in gastroenteritis in dogs with canine in parvoviral infection. *Research in Veterinary Science doi10.1016/j.rvsc.2008.05.008*

8. Gupta, AR, Patra RC, Das, DK, Gupta, PK, **Swarup D** and Saini, M (2008). Sequence characterization and PCR-RFLP of mtDNA 12S rRNA gene provides method for species identification of Indian deer. *Mitochondrial DNA* 2008; 1–7
9. **Swarup, D**, Patra RC, Prakash V, Cuthbert R, Das D, Avari P, Pain DJ, Green R E, Sharma AK, Saini, M, Das D, Taggart M (2007). The safety of meloxicam to critically endangered Gyps vultures and scavenging birds in India. *Animal Conservation* 10: 192-198
10. **Swarup D**, Naresh R, Varshney VP, Balagangatharthilagar, Kumar Puneet and Nandi D, and Patra R C (2007) Changes in plasma hormone profile and liver function in cows naturally exposed to lead and cadmium around different industrial areas *Research in Veterinary Science* 82: 16-21
11. **Swarup, D**, Patra RC, Prakash V, Cuthbert R, Das D, Avari P, Pain DJ, Green R E, Sharma AK, Saini, M, Das D, Taggart M (2007). The safety of meloxicam to critically endangered Gyps vultures and scavenging birds in India. *Animal Conservation* 10: 192-198
12. Patra RC, **Swarup D**, Naresh Ram, Kumar Puneet, Nandi D, Shekhar Pallav, Roy S and Ali SL (2007) Tail hair as an indicator of environmental exposure of animals to lead and cadmium in different industrial areas. *Ecotoxicology and Environmental Safety* 66: 127-131
13. Dhara. A., Saini, M., Das, D.K., **Swarup, D.**, Sharma, M. Kumar, S., Gupta, P.K. (2007) Molecular characterization of coding sequences and analysis of Toll-like receptor 3 expression in water buffalo (*Bubalus bubalis*) and nilgai (*Boselaphus tragocamelus*) *Immunogenetics* 59: 69-76
14. Saini, Mohini, Das DK, Dhara A, **Swarup, D**, Yadav MP and Gupta, P (2007). Characterization of Peacock ( *Pavo cristatus*) mitochondrial 12SRNA sequence and its use in differentiation from closely related poultry species. *British Poultry Science* 48: 162-166
15. **Swarup D**, Patra RC, Naresh Ram, Puneet Kumar, Pallav Shekhar and M. Balagangatharathilagar (2006) Lowered blood copper and cobalt contents in goats reared around lead-zinc smelter. *Small Ruminant Research* : 63: 309-313
16. Bhatt P, **Swarup D**, Ranjan R and Patra R C (2006) Evaluation of extracts of *Tinospora cordifolia*, *Terminalia arjuna* bark, *Withania somenifera* root and juice of *Allium sativum* cloves for amelioration of iron overload. *Indian Journal of Animal Sciences* 76:366-369
17. Ranjan Rakesh, Naresh R, Patra RC and **Swarup D** (2006). Erythrocyte lipid peroxides and blood zinc, copper concentration in acute undifferentiated diarrhoea in calves: *Veterinary Research in Communication* 30: 249-54
18. Swan G, Naidoo V, Cuthbert R, Green R, Pain DJ, **Swarup D**, Prakash V, Taggart M, Bekker L, Das D, Diekmann J, Maria Diekmann M, Killian E, Meharg A, Patra RC, Saini M, Wolter K (2006). Removing the threat of diclofenac to critically endangered Asian vultures. *Public Library of Science-Biology* 4 : 395-402
19. Nandi, D, Patra, RC and **Swarup, D** (2006) Oxidative stress indices and plasma biochemical parameters during oral exposure to arsenic in rats. *Food and Chemical Toxicology* 44: 1579-84

20. Das, Dhanjit, Saini, Mohini, **Swarup, D** and Gupta, P (2006). Molecular cloning and evolution of gene encoding the precursor of Nilgai (*Basophilus tragocamelus*) interleukin 2. *DNA Sequence* 17: 465-470
21. Balagangatharathilagar M, **Swarup D**, Patra, R C and Dwivedi S K (2006) Blood lead level in dogs from urban and rural areas of India and its relation to animal and environmental variables. *The Science of the Total Environment* 359: 130-134
22. Patra, R C, **Swarup D**, Sharma MC and Naresh Ram (2006). Trace mineral profile in blood and hair from cattle environmentally exposed to lead and cadmium around different industrial units. *Journal of Veterinary Medicine Series A* 53: 1-7
23. Gupta, A, Patra RC, Saini, M and **Swarup, D** (2006). Haematology and serum biochemistry of barking deer (*Munitacus mutjak*) *Veterinary Research Communication* 31:801-08.
24. **Swarup D**, Patra R. C, Naresh R, Kumar Puneet and Shekhar Pallav (2005) Blood lead levels in lactating cows reared around polluted localities; transfer of lead in to milk. *The Science of the Total Environment* 347: 106-110
25. Patra, R. C. and **Swarup D** (2005) Effect of chelation with calcium disodium EDTA on haemato-biochemical and trace mineral profile in blood from lead-exposed calves. *Asian Australasian Journal of Animal Sciences* 18: 1130-1134
26. Ranjan R, **Swarup D**, Patra RC and Naresh R (2005). Enhanced erythrocytic lipid peroxide and reduced plasma ascorbic acid level in dairy cows with mastitis *Veterinary Research Communication* 29 : 27-34
27. Ranjan R, **Swarup D**, Naresh R and Patra RC (2005). Ameliorative effect of l-ascorbic acid in bovine clinical mastitis. *Indian Journal Animal Sciences*. 75 : 174-177
28. Patra RC, **Swarup D**, Naresh R, Kumar P and Shekhar P (2005). Cadmium level in blood and milk from animals reared around different polluting sources in India. *Bulletin of Environmental Contamination and Toxicology* 72: 1092-1097
29. Bhatt P, **Swarup D**, Patra R C, Pattnaik A K and Ranjan R (2005) Enhanced erythrocytic lipid peroxides level in rabbits after repeated parental administration of iron. *Indian Journal of Experimental Biology* 43: 854-858
30. Nandi D, Patra RC, and **Swarup D** (2005) Effect of cysteine, methionine, ascorbic acid and thiamine on arsenic-induced oxidative stress and biochemical alterations in rats. *Toxicology* 121: 26-35
31. Nandi, D, Patra, R C and **Swarup, D** (2005) Arsenic Residues in Hair Samples from Cattle in Some Arsenic Affected Areas of West Bengal, India. *Bulletin of Environmental Contamination and Toxicology* 75: 251-56
32. Patra, RC and **Swarup D** (2004). Effects of antioxidant ascorbic acid, l-methionine and e-tocopherol alone or along with chelator on cardiac tissue of lead- treated rats. *Vetrinarski Arhiv*. 74: 235-44

33. Ram Naresh, Dwivedi, SK, **Swarup D** and Patra, RC (2003). Effect of ascorbic acid on milk lead and cadmium level in subclinical and clinical cases of mastitis. *Bulletin of Environmental Contamination and Toxicology* **71**: 899 – 904
34. Patra RC, **Swarup D** and Dwivedi SK (2002). Effect of tocopherol supplementation and chelation treatment on oxidative stress indices in erythrocytes of lead exposed calves. *Indian Journal of Animal Sciences* **72**: 16-20
35. Ram Naresh, Dwivedi, SK, **Swarup D** and Patra, RC (2002). Evaluation of ascorbic acid treatment in clinical and subclinical mastitis in Indian dairy cows. *Asian Australasian Journal of Animal Science* **15**: 905-911.
36. **Swarup D**, Patra RC, Dey S, Dwivedi SK and Ali, SL (2001). Clinico-epidemiological observations of industrial bovine fluorosis in India. *Indian Journal of Animal Sciences* **71**: 1111-1116
37. Patra RC, **Swarup D**, Dwivedi SK and Sahoo A (2001). Lipid peroxide level and antioxidant defense in experimental lead neurotoxicity in rats. *Indian Journal of Animal Sciences* **71**: 737-740
38. Patra RC, **Swarup D** and Dwivedi SK (2001). Antioxidant effects of tocopherol, ascorbic acid and l-methionin on lead induced oxidative stress in the liver, kidney and brain in rats. *Toxicology* **162**: 81-89
39. Dwivedi SK, **Swarup D**, Dey S and Patra, RC (2001). Lead poisoning in cattle and buffalo near primary lead-zinc smelter in India. *Veterinary and Human Toxicology* **43**: 93-94
40. Patra RC, **Swarup D** and Dwivedi SK (2001). Trace minerals in blood of young calves during exposure to lead. *Indian Journal of Animal Sciences* **71**:507-510
41. Senapati SK, Dey S, Dwivedi SK, and **Swarup D** (2001). Effect of garlic (*Allium sativum L.*) extract on tissue lead level in rats. *Journal of Ethnopharmacology* **62**: 229-232.
42. Patra RC and **Swarup D** (2000). Effect of lead on erythrocytic antioxidant defense, lipid peroxide level and thiol groups in calves. *Research in Veterinary Science* **67**: 71-75
43. Patra RC, **Swarup D** and Singh DK (2000). Use of chelator and antioxidants in experimental lead toxicity: effect of lead on immune system. *Indian Journal of Animal Sciences* **70**: 258-260
44. Patra RC, **Swarup D** and Dwivedi SK (2000). Antioxidant defense and lipid peroxide level in liver and kidneys of lead exposed rats. *Asian Australasian Journal of Animal Science* **13**: 1433-1439
45. Patra RC, Dwivedi SK, Bhardwaj B and **Swarup D** (2000). Industrial fluorosis in cattle and buffaloes in Udaipur, India. *Science of the Total Environment* **253**: 145-150