

## CURRICULUM VITAE



**Name:** SANJOY KUMAR PAL

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**Date of Birth:** July 7<sup>th</sup> 1965

### Education:

Degree	University / Board	Subjects	Year	Class
Ph.D.	I.V.R.I.*	Major : Animal Genetics Minor : Biochemistry , Livestock Production & Management.	1993	3.29/4
M.Sc.	Barkatullah Univ., Bhopal	Genetics	1987	I
B.Sc.	Barkatullah University, Bhopal	Chemistry, Zoology, Aquaculture & Environment, English	1985	I

\* Indian Veterinary Research Institute, Izatnagar

### Post-doctoral Training:

- 2000 – 2006 Post doctoral research fellow, Department of Gastroenterology, Sanjay Gandhi Post-Graduate Institute of Medical Sciences, Lucknow 226014 [U. P.], India.
- 2000 – 2000 Post doctoral research fellow, Division of Embryotoxicology, Indian Institute For Toxicology Research (ITRC), Lucknow 226001 [U.P.], India.
- 1993 – 1994 Post doctoral research fellow, Department of Medical Genetics, Sanjay Gandhi Post Graduate Institute of Medical Sciences, Lucknow 226014 [U. P.], India.

### Other Qualifications:

- 2017 Diploma in Naturopathy from School of Ayurveda, Department of Yoga, D Y Patil University, Navi Mumbai

**Google Scholar:** <https://scholar.google.co.in/citations?user=BeGQiZ8AAAAJ&hl=en&authuser=1>

**ResearchGate:** <https://www.researchgate.net/profile/Sanjoy-Pal-2>

**ORCID:** <https://orcid.org/0000-0003-1436-6380>

<b>Professional Experience Summary</b>			
<b>Position</b>	<b>Duration</b>		<b>Organization / Place</b>
Professor & Head	Oct 2018	Jan 2025	Department of Biological Sciences, Skyline University Nigeria, Kano
Professor & Head (A)	Aug 2017	Dec 2017	School of Natural Sciences, CT University, Ludhiana, Punjab
Professor & Head	June 2016	July 2017	Dept. of Biotechnology RNB Global University, Bikaner, Rajasthan
Professor - Visiting	Dec 2015	Dec 2016	Dept. of Biotechnology, Arni University, Kathgarh, HP
Senior Scientist	Oct 2014	Jun 2016	CACM, STEP, Indian Institute of Technology, Kharagpur
Assistant Professor	Oct 2010	July 2014	School of Animal Sciences, Haramaya University, Ethiopia
Sr. Scientific Manager	Aug 2008	Oct 2010	Ipca Traditional Remedies Private Limited, Mumbai
Lecturer	Aug 2006	July 2008	SBS University, Dehradun
Research Associate	Aug 2000	July 2006	Sanjay Gandhi PG Institute of Medical Sciences, Lucknow
Research Associate	Mar 2000	Aug 2000	Indian Institute of Toxicology Research (ITRC), Lucknow
Researcher	Jan 1998	Feb 2000	Dr. Chatterjee's Clinic, Lake Town, Kolkata
Self Employed	Jan 1995	Dec 1997	Indrapuri, Bhopal
Research Associate	Nov 1993	May 1994	Medical Genetics, SGPG Institute of Medical Sciences, Lucknow
Research Associate	July 1992	Oct 1992	Central Avian Research Institute, Izatnagar, Bareilly
Sr. Research Fellow	Sep 1987	July 1992	Indian Veterinary Research Institute, Izatnagar, Bareilly

## Work Details

Position	Professor & Head Department of Biological Sciences	
Organization	Skyline University Nigeria, Kano	
Place of Work	Kano, Nigeria	Web: <a href="https://www.sun.edu.ng/">https://www.sun.edu.ng/</a>
Period	From October 2018 to January 2025	+234 818 111 1113
Responsibility	Teaching & research activity of undergraduate and post graduate students of Microbiology & Biology degree program. Routine administrative activity.	

Position	Professor & Head of School (SNS & SPAMS)	
Organization	CT University, Ludhiana, Punjab	Web: <a href="http://ctuniversity.in/">http://ctuniversity.in/</a>
Period	From to August 2017 to December 2017	Tel: +91 9814078621
Responsibility	Head of School of Natural Sciences and School of Pharmacy and Allied Medical Sciences. I was also the Coordinator for the PhD program of the University.	
Courses Handled	Biotechnology courses, Project Writing	

<b>Position</b>	<b>Professor &amp; Head, Biotechnology Department</b>	
<b>Organization</b>	RNB Global University, Bikaner, Rajasthan	<b>Web:</b> <a href="https://www.rnbglobal.edu.in/">https://www.rnbglobal.edu.in/</a>
<b>Period</b>	From June 2016 to July 2017	<b>Tel:</b> +91 11 27352908
<b>Responsibility</b>	Teaching of undergraduate students of Biotechnology and Botany department.	
<b>Course Handled</b>	Biotechnology courses, Environmental Sciences, Botany	

<b>Position</b>	<b>Senior Scientist</b>		
<b>Organization</b>	Centre for Advanced Communication & Management, STEP, IIT, Kharagpur		
<b>Period</b>	From October 2014 to June 2016	<b>Web:</b> <a href="http://www.skilljunction.in/">http://www.skilljunction.in/</a>	
<b>Responsibility</b>	To make and update ISIL trainers training manual; To arrange in-house & onsite ISIL demonstration classes; Follow-up, both prospective & existing clients; To meet prospective buyers to sell the idea; To make creative write-up ready for CACM ISIL brochure, newsletter, advertisement; To make, maintain & update the video-bank of the demo classes; To assist on other duties assigned by CACM. [ <b>Tel:</b> +91 9434005091]		

<b>Position</b>	<b>Assistant Professor, School of Animal &amp; Range Sciences</b>		
<b>Organization</b>	Haramaya University, Ethiopia	<b>Web:</b> www.haramaya.edu.et	
<b>Period</b>	From October 2010 to July 2014	<b>Tel:</b> +251 930313006	
<b>Responsibility</b>	Teaching & research guidance of under and post graduate students of the School of Animal and Range Sciences, College of Agriculture & Environmental Sciences. Establishing of Molecular Biology Lab.		
<b>Course Handled</b>	Genetics, Molecular Biology & Biotechnology, Bioinformatics etc.		

<b>Position</b>	<b>Senior Scientific Manager</b>	
<b>Organization</b>	Ipca Traditional Remedies (P) Ltd., 142 AB, Kandivali Industrial Estate, Kandivali (West), Mumbai – 400067 Maharashtra, India	
<b>Period</b>	August 2008 to October 2010	<b>Web:</b> www.ipcalabs.com
<b>Responsibility</b>	Establishment and validation of protocols, monitoring of clinical trials, project writing, analysis interpretation and presentation of data, and coordinating between different functional groups. Reorientation teaching program for Ayurvedic doctors	
<b>Position</b>	<b>Lecturer, Department of Biotechnology</b>	
<b>Organization</b>	Sardar Bhagwan Singh University, Balawala, Dehradun, Uttarakhand – 248 161	
<b>Period</b>	August 2006 to July 2008	<b>Web:</b> www.sbspqi.org.in
<b>Responsibility</b>	Teaching and research guidance to under and post-graduate students of Biotechnology and Medical Microbiology divisions.	
<b>Course Handled</b>	Genetics, Cell & Molecular Biology and Biotechnology	<b>Tel:</b> +91 135 2685753

<b>Position</b>	<b>Research Associate</b>	
<b>Organization</b>	Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow	
<b>Place of Work</b>	Department of Gastroenterology	<b>Web:</b> www.sgpqi.org.in
<b>From</b>	December 2005 – July 2006	<b>Tel:</b> +91 9650643222
<b>Responsibility</b>	I received a project entitled: A pilot study to assess the popularity, effectiveness and adverse effects of various complementary and alternative medicines (CAM) tried by patients with advanced gastrointestinal tract malignancy in north India, sponsored by Indian Council of Medical Research (ICMR), New Delhi. Idea was to identify various CAM modalities. Lab analysis of the herbal / alternative medicines.	
<b>Mentor</b>	Prof. G Choudhuri	

<b>Position</b>	<b>Research Associate</b>	
<b>Organization</b>	Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow	
<b>Place of Work</b>	Department of Gastroenterology	<b>Web:</b> www.sgpqi.org.in
<b>From</b>	September 2001 to November 2005	<b>Tel:</b> +91 9650643222
<b>Responsibility</b>	I was post-doctoral fellow in the project: Multi-centric ICMR sponsored project, A double blinded randomised control trial of interferon with ribavirin and combination of interferon with glycyrrhizin in management of chronic hepatitis C, sponsored by I.C.M.R., New Delhi. My duty was clinical management of patients.	
<b>Mentor</b>	Prof. G Choudhuri	

<b>Position</b>	<b>Research Associate</b>	
<b>Organization</b>	Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow	
<b>Place of Work</b>	Department of Gastroenterology	<b>Web:</b> www.sgpqi.org.in
<b>Period</b>	August 2000 to September 2001	<b>Tel:</b> +91 9650643222
<b>Responsibility</b>	Post-doctoral fellow in project entitled: Study of the molecular events associated with carcinogenesis of gall bladder, sponsored by Lady Tata Memorial Trust, Mumbai. Studied on molecular genetic analysis of gall bladder cancer tissue.	
<b>Mentor</b>	Prof. G Choudhuri	

<b>Position</b>	<b>Research Associate</b>	
<b>Organization</b>	Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow	
<b>Place of Work</b>	Department of Medical Genetics	
<b>Period</b>	November 1993 to May 1994	
<b>Responsibility</b>	Post doctoral fellow: Feasibility of introducing genetic services among national family welfare programme, sponsored by I.C.M.R., Delhi	
<b>Mentor</b>	Prof. S S Agarwal	

## Teaching Details / Courses Handled

<b>Skyline University Nigeria, Kano</b>	
<b>MSc</b>	Fermentation Technology, Advanced Environmental Microbiology, Advanced Microbial Physiology and Metabolism, Microbial Genetics and Genomics
<b>BSc</b>	Biology, Microbiology, Genetics, Immunology, Entrepreneurship, Human Genetics
<b>CT University Ludhiana</b>	
<b>PhD</b>	Project Writing
<b>MSc</b>	Biotechnology, Cell Biology
<b>RNB Global University, Bikaner, India</b>	
<b>BSc</b>	Biotechnology & Family Welfare; Ecology & Biodiversity; Environmental Sciences
<b>Haramaya University, Dire Dawa, Ethiopia</b>	
<b>PhD</b>	Animal Genetic Resource Conservation & Management; Molecular Genetics; Bioinformatics; Seminars I; Seminars II
<b>MSc</b>	Animal Genetic Resource & Conservation; Animal Genetics; Biotechnology in Animal Breeding; Population Genetics; Current Topics in Animal Genetics & Breeding; Seminar
<b>BSc</b>	Introduction to Animal Genetics; Animal Biotechnology
<b>SBS University, Dehradun, India</b>	
<b>MSc</b>	Genetics & Molecular Biology; Recombinant DNA Technology
<b>BSc</b>	Cell Biology; Molecular Biology; Biotechnology; Basic Immunology & Bioinformatics

## Details of Research Guidance

### Ph.D. Dissertation:

Sl	Name	Dissertation Title	Year
01	Ms. Helen Nigussie*	Phenotypic and Genetic Characterization of Indigenous Sheep Breeds of Eastern Ethiopia	2015

\* Co-advisor

### M. Sc. Dissertation:

Sl	Name	Dissertation Title	Year
01	Ms. Mahilet Dawit*	Characterization of hararghe highland goat and their production system in eastern Hararghe.	2012
02	Mr. Sirish Raj Sami	To study the anti-cancer, anti-inflammatory and analgesic potential of the homeopathic mother tincture Naja 6	2008
03	Ms. Sweta Mittal	To study the anti-cancer, anti-inflammatory and analgesic potential of an alternative herbal cancer medicine HUMA	2008
04	Ms. Geetanjali	To study the anti-cancer, anti-inflammatory and analgesic potential of the homeopathic mother tincture Crotilas 6	2008
05	Ms. Namita Verma	An investigation to study the popularity and <i>in vitro</i> cytotoxicity of an anti-cancer alternative herbal therapy HUMA	2007
06	Ms. Swati Johari	An investigation to evaluate the antioxidant and anti-microbial properties of an alternative herbal cancer medicine HUMA	2007
07	Mr. Gagandeep Bedi	Short term effect of an anticancer herbal medicine HUMA in Wistar albino rats	2007

\*Co-advisor

### B. Sc. Dissertation:

Sl	Name	Dissertation Title	Year
01	Mr. Abhishek Sehgal	A review on the evolution of the HUMA Cancer Society, Lucknow	2008
02	Ms. Ruchi Kumari	A survey to assess the HIV/AIDS related awareness among college students	2008
03	Ms. Rima Kumari	A survey to assess the oral cancer related awareness among college students	2008

Sl	Name	Dissertation Title	Year
04	Ms. Zainab Sani Ali	Assessment of operational facilities and sanitary practices in a slaughter house in Kano, Nigeria	2022
05	Ms. Maimuna Hashim	High prevalence of breast cancer in Nigeria: reasons and perception of Nigerian students	2022
06	Ms. Husna Abba Sabo	Various types of HIV strain in Africa and perception and knowledge about HIV/AIDS among students of Kano	2022
07	Ms. Fatima Bashir Sa'ad	Prevalence and level of awareness of HIV/AIDS among tertiary institution students in Kano State	2023
08	Ms. Hauwa Hamisu Inuwa	Incidence of <i>Helicobacter pylori</i> infection and their risk factors in students of Hausawa Government Boys Secondary School, Kano state	2023
09	Ms. Maryam Abdullahi Dangongola	Determination of awareness level about Hepatitis B Virus (HBV) infection among students in GGSS Hausawa Model Boys Secondary School, Kano state, Nigeria.	2023
10	Ms. Zainab Mustapha Ibrahim	Incidence and assessment of risk factors and control measures of malaria among Government Secondary School Hausawa Model, Kano state	2023
11	Ms. Aisha Falaki Mustapha	Investigation on the level of awareness of hepatitis B infection among the students of Government girls secondary school, Gandu Kano	2024
12	Ms. Salma Turaki Muhammad	Prevalence on Dengue fever and level of awareness among students in Kano	2024
13	Ms. Khadija Bello	Bioethanol production from fruits waste by using yeast	2024
14	Mr. Mustapha Yusuf Ahmad	GIS-Based approach to risk mapping of Lassa fever outbreak in Akure south local government area	2024

Awards
<b>Second Best Poster</b> award for the presentation entitled 'Bio-diesel: a promising eco-friendly alternative fuel.' Authors: G Singh Bedi, P Singh, D Ghosh, B Singh, <b>S K Pal</b> (Corresponding author). Presented in the National Conference on Microbial Diversity: Avenues and Applications, held at Sardar Bhagwan Singh Postgraduate Institute of Biomedical Sciences and Research (SBSPGI), Balawala, Dehradun from March 17 – 18, 2007.
<b>Best poster award</b> for the presentation entitled 'Long term outcome of chronic hepatitis C patients with sustained virological response after combination therapy.' Authors: G Bhatt, <b>S K Pal</b> , C S Baba, T S Negi, A Sharma, C Banerjee, G Choudhuri. Presented in the 46 <sup>th</sup> Annual Conf. of Indian Society of Gastroenterology. Held at Visakhapatnam from November 11 – 15, 2005.
<b>Best poster award</b> for the presentation 'Study of mutation in K-ras oncogene in cytological smears obtained by the fine needle aspiration from gallbladder cancer.' By M K Singh, B Mittal, K Chetri, <b>SK Pal</b> , T S Negi, U B Pandey, V K Kapoor, S S Sikora and G Choudhuri. Presented in the 42 <sup>nd</sup> Annual Conf. of Indian Society of Gastroenterology, Held at Sanjay Gandhi Post Graduate Institute of Medical Sciences (SGPGIMS), Lucknow from November 23 – 29, 2001.

Awarded Projects
2005 A pilot study to assess the popularity, effectiveness and adverse effects of various complementary and alternative medicines (CAM) tried by patients with advanced gastrointestinal tract malignancy in north India, awarded by ICMR, New Delhi.
2000 Study of the molecular events associated with carcinogenesis of gall bladder, awarded by the 'Lady Tata Memorial Trust,' Mumbai.

## Scientific Training

- Participated in International Workshop on 'DNA DIAGNOSTIC,' at Department of Medical Genetics, SGPGIMS, Lucknow from January 15th to 22nd 1994.
- Participated in International Workshop on 'DNA DIAGNOSTIC,' at Department of Medical Genetics, SGPGIMS, Lucknow from January 15th to 22nd 1994.
- Attended workshop on Flow Cytometry: Applications in drug development, held in Central Drug Research Institute, Lucknow from January 8 – 10, 2004.
- University course on 'Introduction to data processing and FORTRAN programming,' at Indian Veterinary Research Institute (I.V.R.I.), Izatnagar.
- Undergone training on 'Edible Mushroom Cultivation & Processing (MCP)', from Rural Development Centre, Indian Institute of Technology (IIT) Kharagpur, under MEGSAT program.
- Participated in Entrepreneurship Development Programme under Prime Minister Rojgar Yojna training. Held at Maulana Azad College of Technology, Bhopal. From 23/12/95 to 15/01/96.

## Proficiency in Games & Sports

- University (IVRI) champion in badminton singles and doubles from 1989 – 1991.
- Captain of the University (IVRI) badminton team in 1990.
- Represented the University team ( IVRI ) in the ' All India Veterinary College Badminton
- Tournament, ' held at College of Veterinary Sciences, Pantnagar 1987.
- Runner's in boys singles in open badminton tournament organised by the S. E. Railway Sports Association, Kharagpur
- Represented C.A.R.I. Student Badminton team.
- Represented I.V.R.I. Students Kabaddi & Cricket team.

## References

<p><b>Prof. (Dr.) Ajith Kumar V.V. PhD</b>  Vice Chancellor  Skyline University Nigeria,  No. 2, Zaria Road, Kano,  Nigeria  Email: vc@sun.edu.ng  Cell: +234 9087560002</p>	<p><b>Prof. Uppala Radhakrishna PhD</b>  Department of Anesthesiology and  Perioperative Medicine  The University of Pittsburg School of Medicine  3550 Terrace Street, A-1305 Scaife Hall  Pittsburgh, PA 15261 USA  Email: uppalar@pitt.edu; radhakrishna@upmc.edu  Cell: +1 402 203 8663</p>
<p><b>Prof. (Dr.) Gour Choudhuri MD., DM.</b>  Director &amp; Head  Dept. of Gastroenterology &amp; Hepato-biliary  Sciences, Fortis Memorial Research Institute,  Opposite HUDA City Centre Metro Station,  Sector 44, Gurgaon, Harayana 122002, India  Email: choudhuri.gour@gmail.com  Tel: +91 9650643222</p>	<p><b>Dr. Yesihak Yusuf Mammed PhD</b>  Associate Prof. Animal Science  Vice President for Research &amp; Community  Engagement.  Haramaya University  Ethiopia  Email: yesihakyus@gmail.com  Tel: +251 2555300324</p>

## PUBLICATIONS

Total Publications	87
In Peer Reviewed Journals	80
Abstract in Conferences & Symposium	94
Popular Articles in Magazine / News Papers	30

MA Kumar, V Arputraj, V Satya, DV Kumar, S Sundararajan, V Sivanantham, **SK Pal**. Prediction of Type 2 Diabetes using Support Vector Machine (SVM) with Enhanced Levy Flight-based Fruitfly Optimization Algorithm (ELFFOA) and feature selection approaches. *Yugoslav Journal of Operations Research* (Special Issue) (in Press).

B Asmelash, H Brhane, DK Dube, T Hadush, K Tekle, S Senthil Kumar, **SK Pal**. Wildlife poaching in Ethiopia: remedy for conservation and preservation. *Library Progress International* 2024; 44(3): 27209 – 27214.

S Senthil Kumar, H Rasheed, SA Maganti, JAG Thangaraj, K Senthil Kumar, M. Kavitha, S Sundararajan, **SK Pal**. The role of marketing in venture capital investment decisions and portfolio diversification in Nigeria's startup ecosystem. *South Eastern European Journal of Public Health* 2024; XXV S2: 579 – 593.

S Senthil Kumar, A Mohammed, H Rasheed, S Sundararajan, **SK Pal**. Metaverse as a platform for entrepreneurs and startups: exploring opportunities and challenges. *International Journal of Marketing & Financial Management* 2024; 12(1): 33 – 50.

**SK Pal**, IU Lawal. Strengthening the traditional medicine regulation, education and practice in Nigeria. *African Health Sciences* 2024; 24(3): 453 - 460.

S Senthil Kumar, **SK Pal**, S Kota, H Rasheed, S Sundararajan. Outsourcing healthcare services and its impact on strategic goals of patient care in Nigerian private hospitals. *Management & Technology Research Communication* 2024; 1(1): 27 – 35.

A Mohammed, S Sundararajan, S Senthil Kumar, **SK Pal**. Impact of strategic human resource management on mediating the relationship between entrepreneurial ventures and sustainable growth. International Conference on Strategic Management – *IMCSM24*; Bor, Republic of Serbia 2024; XX(1): 437- 452.

**SK Pal**, S Rastogi, A Das, AY Fan. Postgraduate studies in complementary, alternative & traditional medicine in Nigerian universities. *African Journal of Biological Sciences* 2024; 6(9): 65-77.

**SK Pal**, IU Lawal. Current status and future of traditional, complementary and integrative medicine in Nigeria. *Tropical Journal of Natural Product Research* 2023; 7 (12): 5403-5409.

**SK Pal**. Energy requirement and the development of the Nigerian economy. *Newsline Magazine*, (Skyline University Nigeria) 2022-23; 52-53.

M Abdulsalam, A Kalandar, S Senthil Kumar, S Balakrishnan, **SK Pal**. Maximizing sustainability: leveraging indigenous fungal cellulases for sugarcane bagasse bioethanol production and agricultural waste management in Kano. *Journal of Advanced Zoology* 2023; 44 (Special Issue-2): 2379-2393.

S Senthil Kumar, S Sundararajan, **SK Pal**, K Senthil Kumar. Consumer's awareness and purchase decision precedence towards solar energy products in Kano city of Nigeria. *Journal of Research*

*Administration* 2023; 5 (2): 824 – 836.

Z Sani Ali, MS Muhammad, D Sani, M Abdulsalam, V Arputharaj J, A Senthil Kumar, **SK Pal**. Evaluation of the abattoir's operational infrastructure and sanitation procedures in Kano state, Nigeria. *European Chemical Bulletin* 2023; 12 (Special Issue 1, Part B): 4511-4521.

MS Muhammed, HY Bello, AA Shehu, **SK Pal**. Incidence and antibiotic susceptibility pattern of urinary tract infection in Aninu Kano Teaching Hospital (AKTH) Kano, Nigeria. *Bioscience Biotechnology Research Communication* 2022; 15 (2): 295 – 300.

**SK Pal**, HI Lawal. New Entrepreneurship ideas for budding entrepreneurs of Nigeria. *International Journal of Business Review and Entrepreneurship* 2020; 1(1): 33-38.

**SK Pal**, SH Fatima. Adventurism in herbal medicine the only option for economically challenged Indian cancer patients: Perspective based on case histories. *Bioscience Biotechnology Research Communication* 2020; 13(2): 571-575.

**SK Pal**. Want to lose my virginity before I die: sex adventure of some terminal cancer patients. *Saudi Journal of Nursing and Health Care* 2019; 2(6): 197 - 201.

SV Singh, **SK Pal**. The establishment of an ICT enabled university in Northern Nigeria. Newsletter *CEMCA* 2019; 05 (01): 16 - 17.

B Asmelash, S Diriba, **SK Pal**. Molecular markers based characterization and conservation of wild animals. *International Journal of Recent Sciences* 2017; 6(7): 53-62.

G Choudhuri, R Ojha, T S Negi, V Gupta, S Saxena, A Choudhuri, **SK Pal**, J Choudhuri, A Sangam. A school-based intervention of screening a movie to increase hepatitis B vaccination levels among students in Uttar Pradesh, India: impact on knowledge, awareness, attitudes and vaccination levels. *Hepatology, Medicine and Policy* 2017; 2:10.

**SK Pal**, SH Fatima. Prolongation of survival time of incurable terminal cancer patients with herbal medicines. *International Archives of Integrated Medicine* 2017; 4(6): 149-156.

H Nigussie, **SK Pal**, S Biriba, Y Mekasha, K Kebede, S Abegaz. Phenotypic variation and protein polymorphism of indigenous sheep breeds in eastern Ethiopia. *Livestock Research for Rural Development* 2016; 28 (8): <http://www.lrrd.org/lrrd28/8/nigu28139.html>

S Pal, S Das, **SK Pal**. Transforming teaching and learning process in India through smart classrooms and Elabs. *International Journal of Advanced Research in Education & Technology* 2015; 2(4): 112 – 115.

S Pal, S Punit, S Das, **SK Pal**. The role of Centre for Advanced Communication (CACM) in spreading e-Learning in India. *International Journal of Applied Research* 2015; 1(8): 190-193

**SK Pal**. The Ayurvedic *Bhasma*: The ancient science of nanomedicine. *Recent Patents on Nanomedicine* 2015; 5(1): 12-18.

B Zewdie, K Welday, **SK Pal**. Conservation of indigenous donkey breeds of Ethiopia: A review. *International Journal of Interdisciplinary and Multidisciplinary Studies* 2015; 2(6): 13-22.

H Nigussie, Y Mekasha, S Abegaz, K Kebede, **SK Pal**. Indigenous sheep production system in



- eastern Ethiopia: Implications for genetic improvement and sustainable use. *American Scientific Research Journal for Engineering, Technology, and Sciences* 2015; 11(1): 136-152.
- A Kalandar, SM Abdulie, **SK Pal**, K Arebo, GG Kassa. Breast cancer awareness and practice of breast self-examination among female medical students in Haramaya University, Harar, Ethiopia. *International Journal of Interdisciplinary and Multidisciplinary Studies*; 2014; 2(2): 109-119. [Corresponding author]
- SK Pal**. Alternative homeopathic therapy for cancer treatment: the Psorinum Therapy. *International Journal of Interdisciplinary and Multidisciplinary Studies*, 2014; 1 (8): 1-10.
- SK Pal**. A review on an Ayurvedic approach for cancer treatment developed by Vaidya Balendu Prakash. *International Journal of Interdisciplinary and Multidisciplinary Studies*, 2014; 1 (6): 1 - 11.
- SK Pal**, YY Mammed. Investigation of haemoglobin polymorphism in Ogaden cattle. *Veterinary World* 2014; 7(4): 229-233.
- VB Gunasekaran, T Vijay, A Kalandar, **SK Pal**. Teratogenic heroes – a review. *World Journal of Pharmacy and Pharmaceutical Sciences* 2014; 3(3): 72-83.
- H Abraham, **SK Pal**. Animal biotechnology options in improving livestock production in the horn of Africa. *International Journal of Interdisciplinary and Multidisciplinary Studies* 2014; 1(3):1-8.
- SK Pal**, SH Fatima. Cancer treatment with the alternative herbal medicine HUMA: Two case reports. *Middle East Journal of Cancer* 2014; 5(1): 41-46.
- SK Pal**. Cancer alternative therapy HUMA: a clinical perspective. *Annals of Ayurvedic Medicine* 2013; 2(3): 80-88.
- SK Pal**. Best Case Series Program: Submission of unconventional therapies from India. *Integrative Cancer Therapies* 2013; 12(6): 453.
- SK Pal**, MR Panigrahi. Open educational resources with special reference to Biology teaching and research aid in Ethiopia. *Journal of Educational and Instructional Studies in the World*. 2013; 3(3): Article 13.
- H Nigussie, Y Mekasha, K Kebede, S Abegaz, **SK Pal**. Production objectives, breeding practices and selection criteria of indigenous sheep in eastern Ethiopia. *Livestock Research for Rural Development* 2013; Volume 25: Article #157. [<http://www.lrrd.org/lrrd25/9/nigu25157.htm>].
- SK Pal**, SH Fatima, A Kalandar. Effect of poly herbal preparation HUMA on oral cancer: Two case reports. *Translational Medicine and Biotechnology* 2013; 1(1): 65 – 69.
- SK Pal**. Wonders of the world, Ethiopia and India. *HU Newsletter* 2013; 4(14): 32-33.
- SK Pal**. Homeopathic medicine and palliative cancer care: A case report. *Science Technology Arts Research Journal* 2013; 2(1): 60-63.
- SK Pal**. Homeopathic approach for cancer treatment: My experience. *Journal of Alternative and Complementary Medicine* 2013; 19 (5): 478 - 479.
- H Nigussie, Y Legesse, **SK Pal**. Domestic Animal Diversity System (DAD-IS): Its contribution for animal Genetic Resource (AnGR) Management. In the Proceedings of the 19th Annual Conference of the Ethiopian Society of Animal Production (ESAP). 2011, 17 – 21.

Y Tadesse, **SK Pal**. Success and failure of small ruminant breeding program programs in relation to indigenous knowledge, genotype and local environment in the Sub-Sahara African countries (SSA). In the Proceedings of the 19<sup>th</sup> Annual Conference of the Ethiopian Society of Animal Production (ESAP). 2011, 22 – 30.

H Nigussie, K Kebede, S Abegaz, **SK Pal**, Y Mekasha. Application of Random Regression Model (RRM) in dairy cattle genetic evaluation. In the Proceedings of the 19<sup>th</sup> Annual Conference of the Ethiopian Society of Animal Production (ESAP). 2011, 31 – 44.

B Prakash, PM Parikh, **SK Pal**. Herbo-mineral ayurvedic treatment in a high risk acute promyelocytic leukemia patient with second relapse: 12 years follow up. *Journal of Ayurveda & Integrative Medicine* 2010; 1 (3): 215 – 218.

B Prakash, S Prakash, R Sharma, **SK Pal**. Sustainable effect of ayurvedic formulations in the treatment of nutritional anemia in adolescence students. *Journal of Alternative and Complementary Medicine* 2010; 16 (2): 205 - 211.

**SK Pal**. The role of herbal medicine in fight against HIV /AIDS and cancer. In proceedings of 2<sup>nd</sup> National Seminar on Evidence based & Integrative Medicine for Lymphatic Filariasis, other Chronic Dermatoses and HIV/AIDS 2007: 75 -76.

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**SK Pal**, SH Fatima, R Mehrotra. Oral cancer treatment with an alternative poly-herbal therapy ‘HUMA’ in two patients with advanced disease. *Elements* 2006; 4 (1): 12 – 16.

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## Book Chapters / Thesis / Compilations

- 2025 IO Musa, UJJ Ijah, OP Abioye, M Abdulsalam, **SK Pal**, IA Abamhekhelu, AM. Maude, OO Yusuf, SA Aande. Eco-Restoration of the polluted environment. In, Phytoremediation of Heavy

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- 2024 V Arputharaj J, **SK Pal**. Transforming Industry 5.0 Real Time Monitoring and Decision Making with IIOT Skyline University. In: Sustainability in Industry 5.0 Theory and Applications, (Editors), KK Reddy, PR Anisha, S Khan, MM Hanafiah, L Pamulaparty, RM Mohana. 2024; 1st Edition; Routledge Taylor & Francis Group. Pp 76 – 106. ISBN 9781032582016
- 2022 SD Paul, H Sharma, G Sahu, CD Kaur, **SK Pal**. Future perspectives of herbal bioenhancer. In P L Pingale Eds. Book Chapter ‘Drug Delivery Technology’. Walter de Gruyter GmbH Berlin 2022; pp 307-323. ISBN 9783110746808
- 2014 **SK Pal**. Food-based intervention for cancer management: An Ayurvedic perspective. In Rastogi S (Ed), Ayurvedic Science of Food and Nutrition, pp 81-106, Springer. <http://www.springer.com/food+science/book/978-1-4614-9627-4>
- 2009 Balendu Prakash and **SK Pal**. Cancer patients treated with ayurvedic therapy: 13 case reports. Compilation submitted for the Best Case Series Presentation to the Office of the Cancer Complementary and Alternative Medicine (OCCAM) / NCI, Bethesda, MD, USA.
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- 2002 **SK Pal**. Reports of 15 patients treated with alternative cancer therapy Psorinum. Compilation submitted for the Best Case Series Presentation to the Office of the cancer Complementary and Alternative Medicine (OCCAM) / National Cancer Institute, Bethesda, MD, USA.
- 1999 AK Chatterjee, S K Dutta , RS Bhakta , A Mazumdar, G Mukherjee, S Ganguli S, PK Kundu, SP Dey Sarkar, BP Mukhopadhyaya and **SK Pal**. Use of Psorinum in the treatment of cancer. In Oral Cancer VI. Major General AK Verma (Ed), pp 297 - 300. Macmillan India Ltd.
- 1993 **SK Pal**. Genetic Characterization of indigenous guinea fowl (*Numida meleagris*) germplasm. Ph.D. Thesis approved by Indian Veterinary Research Institute, Izatnagar – 243 122 (U.P.), India.

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SK Pal. Cancer: can it be prevented? Outlook, National Mail, Bhopal. Sunday May 24, 1998. SK  
 Pal. Preventing Breast Cancer. Reflection, National Mail, Bhopal. Wednesday May 27, 1998.

### **Invited Lecture & Presentation**

- 2024 Delivered a webinar entitled: Overcoming distractions and staying motivated towards long-term goals. Delivered on 28<sup>th</sup> September. Christ University Bangalore, India.
- 2023 Deliver a keynote lecture entitled: Phytomedicine: The Future of Plant Based Medicine. International conference on the 'Importance and Awareness of Traditional and Alternate Medicine,' jointly held by Skyline University Nigeria and Shri Shankaracharya Professional University, Bhilai, India, from 25<sup>th</sup> to 26<sup>th</sup> of August 2023.
- 2022 Deliver a webinar entitled: Biological Science Education in Africa: Observations from Ethiopia & Nigeria. International Webinar on Translational Physiology, organized by the Department of Physiology, West Bengal State University, Barasat, India on 17<sup>th</sup> December 2022.
- 2022 Delivered a webinar entitled: Phytomedicine: Using Plant as Medicine in Modern Era, Online lecture organized by PSGR Krishnammal College for Women, Coimbatore, India on 3<sup>rd</sup> January 2022.
- 2021 Delivered a webinar entitled: Chemopreventive Potential of Certain Herbal Preparations on Oral Cancer, AICTE sponsored online ATAL Academy Faculty Development program on Cancer Genomics in healthcare System, Organized by Noida Institute of Engineering and Technology (Pharmacy Institute), Greater Noida, India on 20<sup>th</sup> November, 2021.
- 2021 Delivered a webinar entitled: Career Opportunities for Pharmacy Students Abroad as a Keynote speaker in International virtual forum on career opportunities in Pharmacy, Organized by the Shri Shankaracharya College of Pharmaceutical Sciences, Bhilai , C.G., India on 13<sup>th</sup> November, 2021.
- 2020 Delivered a lecture entitled: A New Horizon in Breast Cancer Treatment in Kano. Annual Conference of Societal Healthcare Organization, held at Bristol Hotel, Kano on 18<sup>th</sup> October.

- 2020 Delivered a webinar entitled: Natural remedy & practices in healing cancer. Online Conference on Breast Cancer awareness, conducted by Skyline University College, Sharjah, UAE, on 8th October.
- 2020 Delivered a webinar entitled: What can be done to stop the plastic scourge in Nigeria? Online Conference on 'Environment & its Conservation,' 5th June 2020. Organized by Saifia College Bhopal (M.P.) India.
- 2017 Invited Lecture on 'Phytomedicine: Alternative Treatment Option for Advanced Cancer,' International Conference on Recent Trends in Chemical Science (ICRCS-17), January 12-13, 2017, organized by P.G Department of Chemistry, Govt. Engineering College Bikaner in association with Indian Chemical Society Kolkata.
- 2016 Invited Lecture on 'Writing Case Report: Ayurvedic Perspective,' presented at - Three days training programme on Research Methods, Manuscript Writing and Career Opportunities for Ayurveda PG Students, held at Institute of Postgraduate Ayurvedic Education & Research, Kolkata from 06 – 08 January 2016.
- 2016 Invited Lecture on 'Ethical Issues in Research,' presented at - Three days training programme on Research Methods, Manuscript Writing and Career Opportunities for Ayurveda PG Students, held at Institute of Postgraduate Ayurvedic Education & Research, Kolkata from 06 – 08 January 2016.
- 2016 Invited Lecture on 'Preclinical Trials: Ayurvedic Perspective,' presented at - Three days training programme on Research Methods, Manuscript Writing and Career Opportunities for Ayurveda PG Students, held at Institute of Postgraduate Ayurvedic Education & Research, Kolkata from 06 – 08 January 2016.
- 2014 Keynote Lecture - The Ayurvedic Bhasma: the ancient science of nanomedicine. Presented at the National Conference on Nanosciences and Nanotechnology, held at Faculty of Pharmaceutical Sciences, Shri Shankaracharya Technical Campus, Bhilai, Chattisgarh on 8th November 2014.
- 2014 Interactive software integrated learning system (ISILS) developed by the Centre for Advanced Communication: its implication in improving teaching and learning process in Ethiopia. International Conference on Strengthening Quality & Relevance of Education for Sustainable National Development. Held at Haramaya University, Dire Dawa from April 4-5th.
- 2013 Indigenous animal genetic resources: a valuable treasure for Ethiopia. Conference on 60th Anniversary of the discovery of DNA structure and its Impact on Human Life. Held at Haramaya University, Dire Dawa on June 07.
- 2009 Herbs and Cancer Treatment. In the Division of Clinical Pharmacy, School of Pharmacy & Technology Management, NMIMS University, Mumbai on January 27.
- 2008 Health an important assert for our country. Balawala Inter Mediate School, Balawala, Dehradun on April 08 (Lecture was organized to spread health awareness among school student on the occasion of the World Health Day).
- 2007 Evidence based herbal therapy for cancer: My experience with HUMA. Main Auditorium, Mahatma Gandhi Institute of Medical Sciences (M.G.I.M.S), Sevagram on September 07. (National Seminar on Evidence Based Ayurveda & CME on Biomedical Research Methods).
- 2007 The role of herbal medicine in fight against HIV/AIDS and cancer. Main auditorium, Central Plantation Crop Research Institute, Kasaragod on February 16. (2<sup>nd</sup> Seminar on Evidence based & Integrative Medicine for Lymphatic Filariasis, other Chronic Dermatoses and HIV/AIDS).
- 2006 Treatment of cancer with traditional and herbal medicines: implication for new drug discovery. Mini Auditorium, Central Drug Research Institute, Lucknow on August 10.
- 2006 Oral malignancy treatment with a popular alternative cancer therapy 'HUMA'. Convention Center, Rajiv Gandhi Institute of Health Sciences, Trivandrum on January 28, (ORCA Conference).
- 2005 To study the effect of a poly herbal medicine 'HUMA' in 25 patients suffering from oral malignancy. Mowbrays Hall, Park Sheraton, Chennai on December 10, (6<sup>th</sup> INCTR Annual Meeting).
- 2005 A to Z about HIV/AIDS. Institute lecture hall, Colvin Talukadar School, Lucknow on December 01.
- 2005 Complementary and alternative medicine (CAM), reverse pharmacology and drug discovery. Institute Lecture Theatre 1, Institute of Medical Sciences, Banaras Hindu University, Varanasi on September 25.
- 2002 Telemedicine: a new health care delivery system, and its importance in developing countries. Plenary lecture on "Health Care" 89th session of India Science Congress Association, Medical & Veterinary Sciences, Lucknow University.
- 1999 The Role of Genetics in management of Cancer, in Department of Zoology, Dhaka University, Bangladesh. June.

## Conference Abstracts

1. MM Umar, IO Musa, **SK Pal**. Dynamics of microbial population in air, water and soil. In the proceedings of 7th International Antalya Congress of Scientific Research and Innovative Studies, held at Turkiye on 11<sup>th</sup> to 13<sup>th</sup> May 2024.
2. FA Yahaya, IO Musa, **SK Pal**. Agriculture and soil microbiome and microbial interaction with the environment. In the proceedings of 7th International Antalya Congress of Scientific Research and Innovative Studies, held at Turkiye on 11th to 13th May 2024.
3. MS Muhammad, IO Musa, **SK Pal**. Application of microbial system in waste management and use of microbial system in pollution control. In the proceedings of 7th International Antalya Congress of Scientific Research and Innovative Studies, held at Turkiye on 11th to 13th May 2024.
4. **SK Pal**. Surgical strike on cancer with herbs and spices. In Souvenir of the 2nd International Conference on Recent Advances in Agricultural, Environment & Applied Science for Global Development (RAAEASGD-2019), held at Solan, H.P., India from September 27 -29, 2019. Pp 270.
5. **SK Pal**, MR Panigrahi. Interactive software integrated learning system (ISILS) developed by the Centre for Advanced Communication: its implication in improving teaching and learning process in Ethiopia. In Book of Abstracts of International Conference on Strengthening Quality & Relevance of Education for Sustainable National Development. Held at Haramaya University, Dire Dawa from April 4-5<sup>th</sup>, 2014.
6. **SK Pal**, B Asmelash, S Diriba. Indigenous animal genetic resources: a valuable treasure for Ethiopia. In book of Abstracts, Conference on 60<sup>th</sup> Anniversary of the discovery of DNA structure and its Impact on Human Life. Held at Haramaya University, Dire Dawa on June 07, 2013.
7. B Asmelash, S Diriba, **SK Pal**. Molecular markers study a tool for characterization and basis of conservation of wild animals: a short review. In book of Abstracts, International conference on biodiversity conservation and ecosystem services for climate change mitigation and sustainable development. Held at Haramaya University, from December 20-22, 2012.
8. Nigussie H, S Abegaz, **SK Pal**, Mekasha Y. Threat to indigenous farm animal genetic diversity in Ethiopia. In program & abstract booklet, 22<sup>nd</sup> Annual Conference of the Biological Society of Ethiopia, Addis Ababa, March 9-10, 2012.
9. **SK Pal**, B Prakash, N Chandurkar, MN Saraf. Safety studies on combination of four Rasa-aushadies in rodents using OECD parameters. In program & abstract book of Symposium on Safety Profile of *Rasaushadhies*. Held at Banaras Hindu University, Varanasi from February 06 – 07, 2009.
10. SR Sammi, B Singh, **SK Pal**. Anticancer and analgesic effect of homeopathic medicine containing snake venom. In the book of Abstract & Souvenir, 3<sup>rd</sup> Uttarakhand State Science and Technology Congress, held at Indian Institute of Technology, Roorkee from November 10 – 11, 2008. p 67.
11. **SK Pal**, SH Fatima. A study to evaluate the anti-cancer potential of an alternative poly herbal therapy HUMA in patients suffering from advance stage gastro-intestinal (GI) tract carcinoma. UICC World Cancer Congress August 27 – 31, 2008, Geneva, Switzerland, PUB 208.
12. SH Fatima, **SK Pal**. Palliative cancer care with a poly herbal therapy Huma. UICC World Cancer Congress August 27 – 31, 2008, Geneva, Switzerland. PUB 238.
13. PS Bedi, KD Saxena, B Singh, D Ghosh, **SK Pal**. Effect of *Cichorium intybus* Linn. Against aflatoxicosis induced in albino rats. UICC World Cancer Congress August, 27 – 31, 2008, Geneva, Switzerland. PUB 340.
14. S Mittal, AR Sehgal, **SK Pal**. Natural and herbal medicine for cancer prevention and treatment. In book of abstracts of the Intercollegiate Poster Presentation on Recent advances in Biological Sciences: Human Welfare. Held at Sardar Bhagwan Singh PG Institute of Biomedical Sciences and Research, Balawala, Dehradun on February 28<sup>th</sup> 2008. A 26.



15. SR Sammi, **S K Pal**. Development of low cost thermal cycler: An innovative approach. In book of abstracts of the Intercollegiate Poster Presentation on Recent advances in Biological Sciences: Human Welfare. Held at Sardar Bhagwan Singh PG Institute of Biomedical Sciences and Research, Balawala, Dehradun on February 28<sup>th</sup> 2008. A 30.
16. R Sharma, S Rastogi, L Kumar, D Ghosh, **SK Pal**, PS Bedi, B Singh. Investigation on the hepato-protective potential of *Bhringraj* in CCl<sub>4</sub> challenged Wister albino rats. In the abstract book of the Satellite Meeting conducted by the Society for Free Radical Research – India; February 11-12; Department of Biochemistry, AIIMS, New Delhi, India. 2008.
17. SH Fatima, GS Bedi, **SK Pal**. An investigation on the growing popularity of an alternative cancer therapy HUMA. In the proceedings of the 27<sup>th</sup> Annual convention of Indian Association for Cancer Research, held at Gujarat Cancer & Research Institute, Ahmedabad from February 7 – 9, 2008. PP – 03.
18. N Verma, SH Fatima, AB Pant, **SK Pal**. Preliminary *in vitro* cytotoxicity evaluation of an alternative herbal cancer medicine HUMA. In the proceedings of the 27<sup>th</sup> Annual convention of Indian Association for Cancer Research, held at Gujarat Cancer & Research Institute, Ahmedabad from February 7 – 9, 2008. PP 30.
19. H Sankar, M Pandey, L Kumar, B Singh, RN Singh, PS Bedi, **SK Pal**, D Ghosh. *Ganoderma lucidum*: a mushroom with antioxidant and protective effect against carbon tetrachloride induced toxicity. In the proceedings of the 27<sup>th</sup> Annual convention of Indian Association for Cancer Research, held at Gujarat Cancer & Research Institute, Ahmedabad from February 7 – 9, 2008. PP 33.
20. S Johri, B Singh, D Ghosh, **SK Pal**. Study of the antimicrobial properties of an alternative herbal cancer medicine HUMA. In the proceedings of the 27<sup>th</sup> Annual convention of Indian Association for Cancer Research, held at Gujarat Cancer & Research Institute, Ahmedabad from February 7 – 9, 2008. PP 62.
21. S Rastogi, I Siddiquie, P Karanwal, D Ghosh, **SK Pal**, B Singh. Antioxidant and hepatoprotective effect of *Bauhinia purpurea* against carbon tetrachloride induced liver damage in rats. In Book of Abstract & Souvenir of the 2<sup>nd</sup> Uttarakhand State Science Congress, held at Kumaun University, Nainital from November 15 – 17, 2007.
22. **SK Pal**, SH Fatima. Effectiveness of Alternative Herbal Therapy in Treatment of Cancer: Our Experience with HUMA. In the proceedings of the Cancer Researcher and CAM Practitioners: Fostering Collaborations; Advancing the Science conference held at National Cancer Institute – National Institute of Health, Bethesda, Maryland, USA from October 22 – 23, 2007.
23. **SK Pal**. Evidence based herbal therapy for cancer: My experience with HUMA. In Souvenir & Abstract Book of the Seminar on Evidence Based Ayurveda & CME on Biomedical Research Methods, held at M. G.I.M.S, Sevagram from September 7 – 8, 2007. IL 21.
24. K Joshi, A Shukla, A Kalra, **SK Pal**, B Singh, D Ghosh. Search for new laundry detergent enzymes from soil bacteria of Uttarakhand. In the abstract book of National Conference on Microbial Diversity: Avenues and Applications, held at SBSPGI, Balawala, Dehradun from March 17 – 18, 2007. D 50.
25. R Walia, S Ranjan, **SK Pal**, B Singh, D Ghosh. Search for thermostable and alkaline cellulose and xylanase of soil bacteria isolated from Uttarakhand. In the abstract book of National Conference on Microbial Diversity: Avenues and Applications, held at SBSPGI, Balawala, Dehradun from March 17 – 18, 2007. D 51.
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27. S Rastogi, Ashu, A Lawrence, A Kumar, D Ghosh, **SK Pal**, B Singh. Effect of *Bauhinia purpurea*

- on tissue antioxidant defence mechanism during ethanol induced hepatotoxicity in rats. In the abstract book of National Conference on Microbial Diversity: Avenues and Applications, held at SBSPGI, Balawala, Dehradun from March 17 – 18, 2007. D 54.
28. **SK Pal**, D Ghosh, S Gupta, B Singh. Microbial diversity related research in Uttarakhand: searching the Internet. In the abstract book of National Conference on Microbial Diversity: Avenues and Applications, held at SBSPGI, Balawala, Dehradun from March 17 – 18, 2007. D 55.
  29. S Johari, N Verma, D Ghosh, B Singh, **SK Pal**. Biological databases, molecular modelling and future drug designing. In the abstract book of National Conference on Microbial Diversity: Avenues and Applications, held at SBSPGI, Balawala, Dehradun from March 17 – 18, 2007. D 56.
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  39. **SK Pal**, SH Fatima. A survey of patients electing a popular alternative therapy 'HUMA' for cancer treatment. In proceedings of the 6<sup>th</sup> INCTR Annual Meeting held at Chennai from December 10 – 13, 2005.
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- chronic hepatitis C patients with sustained virological response after combination therapy. *Indian Journal of Gastroenterology* 2005; 24 (Suppl 1): A79 – A80.
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67. MK Singh, **SK Pal**, K Chetri, G Choudhuri, B Mittal. A preliminary study of K-ras mutation from fine needle aspiration cytology smears of gallbladder cancer patients. In the proceedings of XXVI Annual Conference of Indian Society of Human Genetics, Human Genome and Beyond. Held at CCMB, Hyderabad from February 20 –22, 2001. P69, P 57.
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76. **SK Pal**, H Singh. Inheritance of wing feather development in guinea fowl. In proceedings of the XX World's Poultry Congress Vol IV. Held at New Delhi from, September 2 – 5, 1996. P497.
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80. **SK Pal**, SS Bhatia, H Singh. Studies on marker gene associated with economic traits in guinea fowl. In proceedings of the XV Annual Conference and Symposium of IPSA. Held at Central Agricultural Research Institute, Port Blair, from January 16 – 18, 1993. AGB 25.
81. **SK Pal**, H Singh, SMS Chahal. Gene homologies and phylogenetic relation of *Numida* with *Gallus* and *Coturnix*. In proceedings of the J.B.S. Haldane Centenary International Congress on Evolution. Held at Bhopal University, November 5 – 7, 1992.
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84. **SK Pal**, H Singh. Protein polymorphism in guinea fowl. In proceedings of the XIX World's Poultry Congress Vol III. Held at Amsterdam, the Netherlands from September 20 – 24, 1992. 388.
85. **SK Pal**, H Singh, S Kumar, GS Bist, A Soni. Genetic divergence analysis in guinea fowl. In proceedings of the XIX World's Poultry Congress Vol III. Held at Amsterdam, the Netherlands from September 20 – 24, 1992. 387.
86. **SK Pal**, H Singh, S Kumar, VK Saxena, GS Bist, A Soni. Alkaline phosphatase polymorphism and genetic divergence analysis in guinea fowl. In proceedings of Gregor Johan Mendal Birthday Lecture series and Symposium International. Held at University of Calicut, from July 22 – 23, 1992.
87. VK Saxena, H Singh, S Kumar, **SK Pal**. Genetic relationship among guinea fowl, desi fowl and broiler chicken for various traits related to general immunity. In proceedings of the Gregor Johan Mendal Birthday Lecture series and Symposium International. Held at University of Calicut, from July 22 – 23, 1992.
88. **SK Pal**, H Singh. Inheritance of egg laying and egg quality traits in guinea fowl. In proceedings of

the XIV Annual Conference & Symposium IPSA. Held at Govind Ballab Pant University of Agricultural and Technology, Pantnagar, from February 14 – 16, 1992. AGB 36.

89. AB Mandal, **SK Pal**, H Singh, NN Pathak. Effect of feeding different levels of enzyme and protein in indigenous guinea fowl broilers. In proceedings of the First International Animal Nutritional Workers Conference for Asia and Pacific. Held at Bangalore, from September 23 – 28, 1991.
90. **SK Pal**, H Singh. Studies on blood enzymes and minerals in indigenous guinea fowl. In proceedings of the XIII Annual Conference & Symposium IPSA. Held at Bombay Veterinary College, from December 20 – 22, 1990, AGB 53.
91. **SK Pal**, H Singh. Preliminary observation of artificial insemination in indigenous guinea fowl. In proceedings of the XIII Annual Conference & Symposium IPSA. Held at Bombay Veterinary College, from December 20 – 22, 1990. AGB 54.
92. **SK Pal**, H Singh, MP Mall. Studies on guinea fowl erythrocyte agglutination using flavi-virus. In proceedings of the XIII Annual Conference & Symposium IPSA. Held at Bombay Veterinary College, from December 20 – 22, 1990. AGB 55.
93. **SK Pal**, H Singh. Genetic Studies on slow and rapid feathering trait in indigenous guinea fowl. In proceedings of the XIII Annual Conference & Symposium IPSA. Held at Bombay Veterinary College, from December 20 – 22, 1990. AGB 56.
94. Singh H, **SK Pal**. Feed passage rate and digestive tract length of indigenous guinea fowl. In proceedings of the XIII Annual Conference & Symposium IPSA. Held at Bombay Veterinary College, from December 20 – 22, 1990. AGB 58.

### Member of Scientific Societies

Indian Society of Animal Genetics & Breeding	Life Member
Indian Association for Cancer Research	Life Member
Annals of Ayurvedic Medicine	Member of Scientific Advisory Board
International Journal of Medical Sciences and Biotechnology	Member Advisory Board
International Journal of Interdisciplinary & Multidisciplinary Studies	Member Editorial Board
International Archives of Integrative Medicine	Member Editorial Board

### Website Designed:

<http://www.brojendas.com>

This website is based on the life and achievement of Mr. Brojen Das ‘King of Channel’ and the first Asian from Bangladesh to cross the English Channel. Mr. Das crossed the Channel a record six times. He once held two world records. Incidentally Mr. Das was my father-in-law.

### Review Assignments

*Ad hoc* reviewer for the following journals since 2000. Number in parenthesis indicates the number of times manuscript was reviewed for respective journals.

- CNS & Neurological Disorder – Drug Target (1)
- National Medicine Journal of India (1)
- International Journal of Medicine and Medical Sciences (2)
- Indian Journal of Experimental Biology (3)
- Health Policy (1)
- Asked to comment on an article published in Lancet Oncology.
- African Journal of Agricultural Research (4)
- Annals of Ayurvedic Medicine (15)
- International Journal of Medical Sciences and Biotechnology (3)

## Organizing Activities

- 2006 In-charge of the patient counseling centre in the Health Camp organized by SBSPGI at Balawala on December 03.
- 2007 Coordinator Hospitality Committee in the National Conference on Microbial Diversity: Avenues and Applications, held at SBSPGI, Balawala, Dehradun from March 17 – 18.
- 2007 Coordinated seminar by Dr. Harpreet Singh (Retd. Principal Scientist, Central Avian Research Institute, Izatnagar) at SBSPGI, Dehradun on October 09. Topic: Biotechnological and conventional genetic approaches for improvement of animal and poultry species.
- 2007 Gave lectures to the students of the division of Life Sciences, Physiotherapy, Pharmacy and Medical Lab Technology, SBSPGI on the importance of Hepatitis B vaccination and motivated them for the vaccination during the 2007 – 08 academic sessions.
- 2007 In-charge of the inter-house debate competition held on November 9, at the Seminar Hall of SBSPGI, Balawala, Dehradun.
- 2007 Was a member of reception committee in the SBS UTSAV 2007 & Annual Day celebration from November 14 – 17, SBSPGI, Balawala, Dehradun.
- 2007 Event in-charge World AIDS Day program held on December 1, at SBSPGI, Balawala.
- 2007 Coordinated a seminar by Prof. Sumit Kar (Head, Department of Dermatology and Sexually Transmitted Diseases, Mahatma Gandhi Institute of Medical Sciences, Sevagram), at the Seminar Hall of SBSPGI on December 1. Topic: World AIDS 2007: You, Me, Us.
- 2008 In-charge venue arrangement committee of the 1<sup>st</sup> Sardar Gurcharan Singh Memorial All India Debate Competition, held at Sardar Bhagwan Singh PG Institute of Biomedical Sciences and Research, Balawala, Dehradun on February 26 -27.
- 2008 Biotechnology departmental seminar in-charge for the semester session January – June.
- 2008 Organizing committee of the Public Seminar ‘New Dimension in the Treatment of Migraine,’ held at Indian Merchants’ Chamber, Churchgate, Mumbai on November 20. Event sponsored by: Ipca Laboratories Limited, Mumbai.
- 2009 Coordinator of the Re-Orientation Training Program for Medical Professional, held at Ipca Laboratories Limited, Mumbai from March 26– 29.
- 2010 Chairperson [5] and internal reviewer [5] of M.Sc. thesis examination board of the School of Graduate Studies, Haramaya University, Dire Dawa.
- 2013 Internal reviewer for reviewing Animal Genetics & Breeding curriculum [Ph.D. course] for Haramaya University in Curricula Review National Workshop, held at Haramaya University, Dire Dawa on March 23-24.
- 2018 School Head, Natural Sciences & Pharmaceutical & Allied Medical Sciences, CT University, Ludhiana from August – December 2017.
- 2018 Coordinator of PhD program in CT University, Ludhiana from August to December 2017.
- 2020 Event in-charge World Hepatitis Day program held on July 28<sup>th</sup>, at SUN, Kano, Nigeria.
- 2021 Event in-charge World AIDS Day program held on Nov 30<sup>th</sup> – Dec 1<sup>st</sup>, at SUN, Kano, Nigeria.
- 2022 Event in-charge World Cancer Day program held on Feb 04<sup>th</sup>, at SUN, Kano, Nigeria.
- 2022 Event in-charge World Environment Day program held on June 05<sup>th</sup>, at SUN, Kano, Nigeria.
- 2022 Event in-charge World Traditional Medicine Day program held on Aug 31<sup>st</sup>, at SUN, Kano, Nigeria.
- 2022 Event in-charge International Students’ Day program held on Nov 17<sup>th</sup>, at SUN, Kano, Nigeria.
- 2022 Event in-charge Breast Cancer Awareness program held on October 05<sup>th</sup>, at SUN, Kano, Nigeria.

- 2022 Event in-charge World AIDS Day program held on Dec 1st, at SUN, Kano, Nigeria.
- 2023 Event in-charge World Cancer Day program held on Feb 03<sup>th</sup>, at SUN, Kano, Nigeria.
- 2023 Event in-charge World Hygiene Day program held on May 04<sup>th</sup>, at SUN, Kano, Nigeria.
- 2023 Event in-charge World Environment Day program held on June 05<sup>th</sup>, at SUN, Kano, Nigeria.
- 2023 Event in-charge World Traditional Medicine Day program held on Aug 25<sup>th</sup> -26<sup>th</sup>, at SUN, Kano, and Shri Shankaracharya Professional University (SSPU), Bhilai, India.
- 2023 Event in-charge Breast Cancer Awareness program held on October 26<sup>th</sup>, at SUN, Kano, Nigeria.
- 2023 Event in-charge Viral Disease Awareness Week program held from Nov 27<sup>th</sup> – Dec 1<sup>st</sup>, at SUN, Kano
- 2024 Event in-charge World Water Day program held on March 22<sup>nd</sup>, at SUN, Kano, Nigeria.
- 2024 Event in-charge Breast Cancer Awareness program held on October 21<sup>st</sup> at SUN, Kano, Nigeria.
- 2024 Event in-charge Viral Disease Awareness Week program held from Nov 25<sup>th</sup> – Nov 29<sup>th</sup>, at SUN, Kano

### **Details of Conferences & Seminar Attended**

- 1986 XI Annual Conference of Environmental Mutagen Society of India. Held at Madras from February 20 – 22.
- 1992 National Seminar on Animal Genetics & Breeding Research and Education, Present Status and Future Thrust. Held at Indian Veterinary Research Institute, Izatnagar, from October 12 – 13.
- 1992 Haldane Centenary International Congress on Evolution. Held at Bhopal University, [Barkatullah University], November 5 – 7.
- 1996 XX World's Poultry Congress Vol IV. Held at New Delhi from, September 2 – 5.
- 1998 Satellite Conference on Tumour Immunology (10<sup>th</sup> International Congress of Immunology), held at Chittaranjan National Cancer Institute, Calcutta from Oct. 28 – 30.
- 1999 VI International Congress on Oral Cancer. Held at New Delhi, February 15 -18.
- 1999 Sixth West Bengal State Science & Technology Congress. Held in Kolkata, February 26 – 28.
- 1999 VI International Congress on Oral Cancer. Held at New Delhi, February 15 -18.
- 1999 Medicine in the Millennium Conference, held in Science City Kolkata from December 27- 29.
- 2000 25<sup>th</sup> Annual Conference of India Society of Human Genetics. Held at Nagpur, from January 9-10.
- 2001 National Symposium on Carcinoma Gallbladder, held at King George's Medical College, Lucknow on March 16.
- 2001 8<sup>th</sup> International Conference of Indian Association of Palliative Care. Held at Bhopal from February 2 – 4.
- 2001 International Symposium on Current Trends in Drug Discovery Research. Held at CDRI Lucknow, from February 11 – 15.
- 2002 89<sup>th</sup> Session of the Indian Science Congress -2002. Held at University of Lucknow, Lucknow from January 3 – 7.
- 2002 International Symposium on Ayurveda, Yoga and Naturopathy & CME on Alternative Systems of Medicine. Held at Mahatma Gandhi Institute of Medical Sciences, Sevagram, from February 1 – 2.
- 2002 1<sup>st</sup> Annual Conference of Telemedicine Society of India. Held at SGPGIMS, Lucknow from November 22 – 24.
- 2002 XXVI Conference of Environmental Mutagen Society of India. Held at ITRC, Lucknow, from March 19 –21



- 2003 11<sup>th</sup> Annual Conference: Indian Association for the Study of the Liver. Held at Kolkata from March 28 – 30.
- 2003 XXVI National Conference of Indian Association of Surgical Oncology & International Symposium on Current Trends and Future Directions in Surgical Oncology. Held at CSMMU (King George Medical College) Lucknow from September 19-21.
- 2005 24<sup>th</sup> Annual Convention of Indian Association for Cancer Research & International Symposium on ‘Human Papillomavirus and Cervical Cancer,’ held at Institute of Cytology and Preventive Oncology, Noida from February 9 – 12.
- 2005 International Symposium on Diet in Causation & Prevention of Cancer and XXX Annual Conference of Environmental Mutagen Society of India, held at I.T.R.C., Lucknow from March 17 -19.
- 2005 2<sup>nd</sup> International Conference of ISAH and International Seminar on Chronic Diseases and its Management by Complementary and Alternative Medicine, held at Banaras Hindu University, Varanasi from September 23 – 25.
- 2005 6<sup>th</sup> INCTR Annual Meeting held at Chennai from December 10 – 13.
- 2006 Oral Cancer Conference 2006 held at Regional Cancer Centre Trivundrum from January 27 –29.
- 2006 XIII International Conference of Indian Association of Palliative Care. Held at Chennai from, February 10 – 12.
- 2006 UICC World Cancer Conference 2006, held at Washington D.C. USA from July 8 – 12.
- 2007 2<sup>nd</sup> National Seminar on Evidence based & Integrated Medicine for Lymphatic Filariasis, other Chronic Dermatoses and HIV/AIDS, held at Institute of Applied Dermatology, Kasaragod, Kerala from February 14 – 16.
- 2007 National Conference on Microbial Diversity: Avenues and Applications, held at SBSPGI, Balawala, Dehradun from March 17 – 18.
- 2007 National Technology Day Programme. Organized by the Dehradun Institute of Technology, Dehradun and held at RIMC, Dehradun on 11<sup>th</sup> May.
- 2007 National Seminar on Evidence Based Ayurveda & CME on Biomedical Research Methods, held at M.G.I.M.S., Sevagram, from September 07 – 08.
- 2007 NCI’s Office of Cancer Complementary and Alternative Medicine sponsored ‘Cancer Researcher and CAM Practitioners: Fostering Collaborations; Advancing the Science’ Conference held at National Institute of Health, Bethesda, Maryland, USA from October 22 – 23.
- 2008 XXIV Annual convention of Indian Association for Cancer Research, held at Gujarat Cancer & Research Institute, Ahmedabad from February 7 – 9.
- 2008 Intercollegiate Poster Presentation on Recent advances in Biological Sciences: Human Welfare. Held at Sardar Bhagwan Singh University, Balawala, Dehradun on February 28.
- 2008 BioLOGK’08: Lecture Series on Biotechnology. Held at MN Ghosh Auditorium, ONGC, Dehradun on April 15. Organised by the Beehive College of Advance Studies, Dehradun.
- 2009 Symposium on Safety Profile of *Rasaushadhis*. Held at Banaras Hindu University, Varanasi from February 06 – 07.
- 2012 PhD. Curricula Review National Workshop. Held at Haramaya University, Dire Dawa from March 23-24.
- 2013 Conference on 60<sup>th</sup> Anniversary of the discovery of DNA structure and its Impact on Human Life. Held at Haramaya University, Dire Dawa on June 07.
- 2013 Cancer Congress 2013. Held at JW Marriott Marquis, Dubai, UAE from October 3-5.

- 2014 International Conference on Strengthening Quality & Relevance of Education for Sustainable National Development. Held at Haramaya University, Dire Dawa from April 4-5.
- 2014 National Conference on Nanoscience and Nanotechnology, Sponsored by INSA, New Delhi. Held at the Faculty of Pharmaceutical Sciences, Shri Shankaracharya Group of Institutions, SSTC, Bhilai on 8<sup>th</sup> November.
- 2016 Three day Training Programme on “Research Methods, Manuscript Writing and Career Opportunities” for Ayurvedic PG Students. Held at Institute of Postgraduate Ayurvedic Education & Research, Kolkata from 06 – 08 January.
- 2016 National Workshop on Practical Application & Validation of Analytical Instruments.” Held at the Faculty of Pharmaceutical Sciences, Shri Shankaracharya Group of Institutions, SSTC, Bhilai on 18<sup>th</sup> February.
- 2016 National Seminar on Integrated Approach towards Cancer. Held at Hotel Tunga, Vashi, Navi Mumbai on 28<sup>th</sup> February.
- 2023 International Conference on the ‘Importance and Awareness of Traditional and Alternate Medicine,’ jointly held by Skyline University Nigeria and Shri Shankaracharya Professional University, Bhilai, India, from 25<sup>th</sup> to 26<sup>th</sup> of August 2023.

### Miscellaneous Information

- I have anchored many health awareness programs in the Doctor Student Dialogue segment of the City Montessori School (CMS) FM Education Radio, Lucknow.
- My abstract, ‘Improving cancer care in India: prospects and challenges,’ was chosen to be posted on the Challenge Fund website ([www.challengefund.org](http://www.challengefund.org)).
- Awarded Peter Kirk fellowship to attend the 8<sup>th</sup> International Conference of the Indian Association of Palliative Care, held in Bhopal from 2 – 4<sup>th</sup> February 2001.
- My name featured in Lucknow edition of The Hindustan Times, July 4, 2002 giving coverage to our effort of spreading awareness about Hepatitis C through Patient Awareness Lectures (PALs) at the department of Gastroenterology, SGPGIMS. Article entitled: Patients Lap up PALs in SGPGI.
- My name featured in Jansatha, Lucknow, July 10, 2002 regarding our effort from the department of Gastroenterology, SGPGIMS to spread awareness for Hepatitis C amongst patients and their relatives. Article published in Hindi entitled [PGI Me Lagi Marigo Ke Anokhi Panchyat].
- My name featured in Jansatha, Lucknow, July 16, 2002 regarding our effort from the department of Gastroenterology, SGPGIMS to spread awareness for Non Alcoholic Fatty Liver (NASH) amongst patients and their relatives. Article published in Hindi entitled [Dil Ke Sath Jigar Ke Liya Bhi Khatarnak Hai Motapa].
- My poster presentation in XXVI National Conference of Indian Association of Surgical Oncology, held at CSMMU (upgraded KGMC) Lucknow from September 19 -21, 2003 was covered in the Times of India, Lucknow, November 10, 2003 issue. Article entitled: A ray of hope for cancer patients.
- My article on ‘Herbal Medicine’ was made cover page article of the Asian Pacific Journal of Cancer Prevention 2003; issue no. 4.
- My name featured in Rastriya Sahara, Lucknow, November 29, 2004 edition regarding our effort to spread awareness of polio and anemia among villagers. The article published in Hindi entitled [Gramino Ko Polio ba Anemia Ki Jankari di].
- My name featured in a Hindi daily Dainik Jagran, Lucknow, December 17, 2004. Article entitled: [HUMA Therapy Se Chalis Fishidi Marij Ko Lab].
- My name featured in The Times of India, December 3, 2005 Lucknow edition regarding my AIDS awareness lecture in Colvin Taluqdar College. Article entitled: AIDS awareness for Colvin students.
- An Urdu Daily EKDAAM Delhi, August 18, 2005 edition published an article regarding my research work on HUMA cancer therapy.

- My article entitled, 'Complementary and alternative medicine: An overview,' published in *Current Science* was topic of discussion in a national seminar on Integrated Therapy for Chronic Skin Diseases held at the Institute of Applied Dermatology, Kasaragod from February 8 – 10, 2005.
- I was a member of a group whose effort of tree plantation drive on the occasion of World Population Day was covered by The Hindustan Times, Lucknow May 18, 2005 edition, article entitled: Green fight against population boom.
- I was member of a mass Hepatitis B vaccination team that received coverage by The Hindustan Times, Lucknow, May 18, 2005 edition, the article entitled: Making SGPGI a hepatitis B free family.
- My name featured in Rastriya Sahara, Lucknow, March 3, 2007 edition regarding our poster presentation in the UICC Cancer Congress in Washington D.C. in 2006 entitled [Cancer Se Larti Hina].
- Received travel grant of Rs. 25,000 from Uttarakhand State Council of Science & Technology as travel grant to attend the 'Cancer Researcher and CAM Practitioners: Fostering Collaborations; Advancing the Science Conference' held at National Cancer Institute – National Institute of Health, Bethesda, Maryland, USA from October 22 – 23, 2007.
- My interview 'Panacea for Cancer Cure,' was published in the Lucknow Tribune, 18<sup>th</sup> – 24<sup>th</sup> January issue, Lucknow 2015.
- Successfully organized a Breast Cancer Awareness Program,' on 30<sup>th</sup> September, 2019 at Skyline University, Kano, Nigeria for the students and staffs of the university.

#### Personal Information

I did my graduation & post-graduation studies from Barkatullah University, Bhopal. After completing my doctoral studies from IVRI, Izatnagar, I joined Sanjay Gandhi Postgraduate Institute of Medical Science, Lucknow for my post doc studies. I have over 25 years of work experience in various organizations. I am married and have a daughter, Sneha, she is 26 years old and a fashion designer and assistant manager at Being Human, Mumbai. My wife Sanghita is a school teacher in Ryan International School, Kandivali, Mumbai. I have one brother (Sandip) and a sister (Samita), both younger to me. My father Late Dr. D. N. Pal was a dermatologist. He retired as Divisional Medical Officer from South Eastern Railway Hospital, Kharagpur. My father-in-law Mr. Brojen Das was a legendary sports personality. He was the first Asian to cross the 'English Channel.' He was awarded the title 'King of Channel' in 1968 for crossing the channel 6 times with 2 world records ([www.brojendas.com](http://www.brojendas.com)). One of my brothers-in-law, Dr. Sumit Kar is a Professor and Head, Department of Dermatology, in a reputed Government Medical College & Hospital in Kolkata. My brother is CEO of Skilljunction [<https://skilljunction.in/ceo-desk/>]

**Height:** 1.65 meters      **Weight:** 75 Kg.      **Category** General      **Blood Group:** B+      **Non Smoker**

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