

As on 01.01.2011

CURRICULUM VITAE



Name: **SANJOY KUMAR PAL**

Designation: Assistant Professor

Place of Work: School of Animal & Range Sciences
College of Agriculture and Environmental Sciences
Po. Box: 138, Haramaya University,
Dire Dawa,
Ethiopia

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Date of Birth: July 7th 1965

Educational qualification:

Qualification	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	Chemistry, Zoology, Aquaculture & Environment, English	1985	I

* Indian Veterinary Research Institute, Izatnagar

Other Qualifications:

Post-Graduate Program in Clinical Research from Protonix Research Services (P) Ltd., Hisar, Haryana, 2010.

M.D. (Alternative Medicine) Indian Board of Alternative Medicine. Kolkata. West Bengal. 2002 . (Course not recognized by the Medical Council of India).

B.A.S.M – (Bachelor of Alternative Systems of Medicine), Indian Board of Alternative Medicine. Kolkata, West Bengal, 2000 (Course not recognized by the Medical Council of India).

Post-doctoral Training:

2000 – 2006 Post doctoral research fellow, Department of Gastroenterology, Sanjay Gandhi Post-Graduate Institute of Medical Research, 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 Research, Lucknow 226014 U. P. India.

Professional Experience

Position	Duration	Organization
Assistant Professor	Oct 2010 -	School of Animal Sciences, Haramaya University, Dire Dawa
Sr. Scientific Manager	Aug 2008 to Oct 2010	Ipcal Traditional Remedies Private Limited, Mumbai
Lecturer	Aug 2006 - July 2008	SBS (PG) Institute of Biomedical Sciences & Research, 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	Sanjay Gandhi PG Institute of Medical Sciences, Lucknow
Research Associate	July 1992 – Oct 1992	Central Avian Research Institute, Izatnagar, Bareilly
Sr. Research Fellow	Sept. 1987 – July 1992	Indian Veterinary Research Institute, Izatnagar, Bareilly

Work Details

Position	Assistant Professor
Organization	School of Animal & Range Sciences, Haramaya University, Ethiopia
Period	From October 2010
Responsibility	Teaching & research guidance of under graduate and post graduate students
Course taught	Genetics and Molecular Biology
Website	www.haramaya.edu.et

Position	Senior Scientific Manager
Organization	Ipcal Traditional Remedies (P) Ltd., 142 AB, Kandivli Industrial Estate, Kandivli (West), Mumbai – 400067 Maharashtra, India
Period	August 2008 to October 2010
Responsibility	Establishment and validation of protocols, monitoring of clinical trials, project writing, analysis interpretation and presentation of data, and coordinating between different functional groups
Website	www.ipcalabs.com ; www.padaav.com

Position	Lecturer
Organization	Department of Biotechnology, Sardar Bhagwan Singh Postgraduate Institute of Biomedical Sciences and Research, Balawala, Dehradun, Uttarakhand – 248 161.
Period	August 2006 to July 2008
Responsibility	Teaching and research guidance of post-graduate and under-graduate student of Biotechnology and Medical Microbiology divisions
Course taught	Genetics and Molecular Biology
Website	www.sbspqi.edu.in

Position	Research Associate
Organization	Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow
Place of Work	Department of Gastroenterology
Period	December 2005 to July 2006
Responsibility	I was a post doctoral fellow in the project: 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 I.C.M.R., New Delhi
Mentor	Prof. G Choudhuri

Position	Research Associate
Organization	Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow

Place of Work	Department of Gastroenterology
Period	March 2005 to November 2005
Responsibility	I was a post doctoral fellow in the project: Multi-centric, open randomized controlled clinical trial of combination therapy with ribavirin and oral glycyrrhizin in decompensated HCV-induced Cirrhosis, sponsored by I.C.M.R., New Delhi
Mentor	Prof. G Choudhuri

Position	Research Associate
Organization	Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow
Place of Work	Department of Gastroenterology
From	September 2001 to February 2005
Responsibility	I was a 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
Mentor	Prof. G Choudhuri

Position	Research Associate
Organization	Sanjay Gandhi Postgraduate Institute of Medical Sciences, Lucknow
Place of Work	Department of Gastroenterology
Period	August 2000 to September 2001
Responsibility	I was a post doctoral fellow in the project: Study of the molecular events associated with carcinogenesis of gall bladder, sponsored by Lady Tata Memorial Trust, Mumbai
Mentor	Prof. G Choudhuri

Position	Research Associate
Organization	Indian Institute of Toxicology Research, Lucknow
Place of Work	Division of Embryotoxicology
Period	August 2000 to August 2000
Responsibility	I was a post doctoral fellow in the project: Toxicity evaluation and application of standard genotoxicity test in the assessment of environmental pollution, sponsored by D.B.T., New Delhi
Mentor	Dr. D Kar Chowdhuri

Position	Researcher
Place of Work	Chatterjee Clinic, 381 S. K. Deb Road, Lake Town, Kolkata - 700 048
Period	March 1997 to January 2000
Responsibility	I was researching on the role of an alternative therapy 'Psorinum' in the treatment of terminal cancer patients.
Mentor	Dr. Ashim Chatterjee

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

Details of Research Guidance

M. Sc. Dissertation:

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

B. Sc. Dissertation:

SI	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

Awards:

Second Best Poster award for the presentation entitled 'Bio-diesel: a promising eco-friendly alternative fuel.' Authors: G Singh Bedi, P Singh, D Ghosh, B Singh, **S K Pal** (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.

Best poster award for the presentation entitled 'Long term outcome of chronic hepatitis C patients with sustained virological response after combination therapy.' Authors: G Bhatt, **S K Pal**, C S Baba, T S Negi, A Sharma, C Banerjee, G Choudhuri. Presented in the 46th Annual Conf. of Indian Society of Gastroenterology. Held at Visakhapatnam from November 11 – 15, 2005.

Best poster award 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, **S K Pal**, T S Negi, U B Pandey, V K Kapoor, S S Sikora and G Choudhuri. Presented in the 42nd Annual Conf. of Indian Society of Gastroenterology, Held at Sanjay Gandhi Post Graduate Institute of Medical Sciences (SGPGIMS), Lucknow from November 23 – 29, 2001.

Projects Awarded:

Post doctoral 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,' awarded by ICMR, New Delhi. 2005.

Post doctoral project entitled "Study of the molecular events associated with carcinogenesis of gall bladder," awarded by the 'Lady Tata Memorial Trust,' Mumbai. 2000.

Professional Training :

- 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 PMRY training. Held in 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>Prof. Gourdas Choudhari Head, Department of Gastroenterology Sanjay Gandhi Postgraduate Institute of Medical Sciences, Rae Bareli Road, Lucknow 226 014 (UP). India Email: gourdas@satyam.net.in Tel: + 91 522 249 4413 (O) 249 4414 (R) Cell: +91 9415017231</p>	<p>Prof. Rajan Saxena Padam Shree Head Gastrosurgery and Liver Transplantation Sanjay Gandhi Postgraduate Institute of Medical Sciences, Rae Bareli Road, Lucknow 260014 (UP). India Email: rajan@sgpgi.ac.in Tel: +91 522 2498700 Ext 4125, 5379 (O), 4426 (R) Cell: +91 94151 03452</p>
<p>Prof. Balraj Mittal Department of Medical Genetics Sanjay Gandhi Postgraduate Institute of Medical Sciences, Rae Bareli Road, Lucknow 226 014 (UP). India Email: balraj@sgpgi.ac.in Tel: +91 522 249 4322 (O), 249 4323 (R)</p>	<p>Dr. S Hina Fatima Director, Huma Cancer Society Ganj Plaza, 2nd Floor, 42 – Hazratganj, Lucknow Email: humacancer@satyam.net.in Tel: +91 522 2201059 (O) 2236066 (R) Cell: +91 9335922314 Web: www.humacancer.com</p>
<p>Dr. D Kar Chowdhuri Deputy Director Division of Embryotoxicology Indian Institute of Toxicology Research Po. Box 80, Mahatma Gandhi Marg Lucknow - 226001 (UP). India Email: dkarchowdhuri@rediffmail.com Tel: +91 522 2620207 / 2213786 (O) Cell: +91 9415091421</p>	<p>Dr Anita Saxena Assistant Professor Department of Nephrology Sanjay Gandhi Postgraduate Institute of Medical Sciences Rae Bareli Road, Lucknow. 260014 (UP). India Email: anitimmy@sgpgi.ac.in Tel: +91 522 2668700 Extn 4127 (O); 4128 (R) Cell: +91 9415141042; +91 453019812</p>

PUBLICATIONS

Peer Reviewed Journals	38
Conferences & Symposium	70
Magazine / News Papers	12
Electronic Publication	04

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 2nd National Seminar on Evidence based & Integrative Medicine for Lymphatic Filariasis, other Chronic Dermatoses and HIV/AIDS 2007: 75 -76.

SK Pal. Cancer treatment with traditional herbal medicines. *Drug and Pharmaceuticals: Current R & D Highlights* 2006; 29 (2): 26 – 31.

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.

SK Pal, G Choudhuri. Hepatitis C: The Indian Scenario. *Physician's Digest* 2005; 14 (2): 46- 53.

A Chatterjee. S Ganguly, **SK Pal**, A Chatterjee, G Mukhopadhyay, R S Bhakta. Attitudes of patients to alternative medicine for cancer treatment. *Asian Pacific Journal of Cancer Prevention* 2005; 6: 125-129. [Corresponding author]

Y Shukla, **SK Pal**. Dietary cancer chemoprevention: An overview. *International Journal of Human Genetics*. 2004; 4: 265-276.

SK Pal, B Mittal. Fight against cancer in countries with limited resources: the post genomic era scenario. *Asian Pacific Journal of Cancer Prevention* 2004; 5: 328 - 333.

SK Pal, B Mittal. Improving cancer care in India: prospects and challenges. *Asian Pacific Journal of Cancer Prevention* 2004; 5: 224 - 226.

Y Shukla, **SK Pal**. Complementary and alternative cancer therapies: past, present and the future scenario. *Asian Pacific Journal of Cancer Prevention* 2004; 5: 3 - 14.

SK Pal, Y Shukla. Herbal Medicine: Past present and the future. *Asian Pacific Journal of Cancer Prevention* 2003; 4: 281 – 288.

SK Pal, B Mittal. Importance of complementary and alternative therapies in palliative oncology in India. *Journal of Alternative and Complementary Medicine* 2003; 9: 811 - 812.

MK Singh, **SK Pal**, G Choudhuri. Importance of palliative care services for patients with gall bladder cancer. *Current Science* 2003; 85: 427 – 428.

SK Pal, GS Pandey, A Kesari, G Choudhuri, B Mittal. Fighting cancer in the information age: The role of Internet. *Indian Journal of Experimental Biology* 2003; 41: 189 – 200.

SK Pal, BS Chalamalasetty, G Choudhuri. Hepatitis C: A major health problem of India *Current Science* 2002; 83: 1058 - 1059.

SK Pal. Use of alternative cancer medicines in India. *Lancet Oncology* 2002; 3 (7): 394 – 395.

SK Pal, GS Pandey, A Kesari, G Choudhuri, B Mittal. Telemedicine: E-health and hospital of the future. *Journal of Scientific and Industrial Research* 2002; 61: 414 - 422.

SK Pal. Complementary and alternative medicine: An overview. *Current Science* 2002; 82 (5): 518 - 524.

SK Pal, A Gomes, S C Dasgupta and A Gomes. Snake venom as therapeutic agent: From toxin to drug development. *Indian Journal of Experimental Biology* 2002; 40: 1353 - 1358.

SK Pal. Use of new cancer drugs in India. *Lancet Oncology* 2001; 2 (12): 716.

SK Pal. Alternative medicine and cancer of the hepato-pancreto-biliary region. 42nd Annual Conference of the Indian Society of Gastroenterology, Lucknow. November 23 – 29, 2001. *Indian Journal of Gastroenterology* 2001; 20 (Suppl. 2): A34.

SK Pal, GS Pandey, MK Singh, B Mittal and G Choudhuri. Low frequency of p53 mutation in north Indian patients with Gall bladder cancer. 42nd Annual Conference of the Indian Society of Gastroenterology, Lucknow. November 23 – 29, 2001. *Indian Journal of Gastroenterology* 2001; 20 (Suppl. 2): A64

MK Singh, B Mittal, K Chetri, **SK Pal**, TS Negi, UB Pandey, VK Kapoor, SS Sikora, G Choudhuri. Study of mutation in K-ras oncogene in cytological smears obtained by the fine needle aspiration from gallbladder cancer. 42nd Annual Conference of Indian Society of Gastroenterology, Lucknow. November 23 – 29, 2001. *Indian Journal of Gastroenterology* 2001; 20 (Suppl. 2): A64

SK Pal, A Nazir, I Mukhopadhyaya, DK Saxena, D Kar Chowdhuri. Internet: A major resource for toxicologist. *Indian Journal of Experimental Biology* 2001; 39: 1207 - 1213.

SK Pal, MK Singh, GS Pandey and B. Mittal. Internet resources for human geneticist. *Indian Journal of Experimental Biology* 2001; 39: 503 – 510.

MK Singh, **SK Pal**, VK Kapoor, G Choudhuri. Gastroenterology and the Internet. *Tropical Gastroenterology* 2000; 21: 165 - 171.

G Choudhuri, MK Singh, K Chetri, A Kumar, L Peter, S Mohindra, T S Negi, **SK Pal**, S Khatoon, K Vishwakarma. Non surgical palliation of malignant obstructive jaundice in northern India: problems posed by gall bladder cancer (GBC). 65th Scientific Meeting of American College of Gastroenterology, New York, USA. Oct 16 –18, 2000. *American Journal of Gastroenterology* 2000; 95 (9): 2474.

- 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.
- SK Pal, H Singh.** Inheritance of wing feathering development rate in guinea fowl (*Numida meleagris*). *British Poultry Science*. 1997; 38: 245 - 248.
- VK Saxena, H Singh, **SK Pal, S Kumar.** Genetic studies on primary antibody response to sheep erythrocytes in guinea fowl. *British Poultry Science*. 1997; 38: 156 - 158.
- SK Pal, H Singh.** Pleiotrophic influence of plumage genes on performance traits of guinea fowl. *Indian Journal of Poultry Science*. 1997; 32 (1): 77 - 80.
- SK Pal, H Singh.** Some observation on alkaline phosphatase in guinea fowl. *Indian Journal of Poultry Science*. 1997; 32 (1): 108 - 110.
- SK Pal, H Singh.** Inheritance of intra-erythrocytic potassium level variations in guinea fowl. *Indian Journal of Poultry Science*. 1997; 32 (3): 292 - 295.
- SK Pal, H Singh.** Inheritance of erythrocytic glutathione concentration in guinea fowl. *Indian Journal of Poultry Science*. 1996; 31 (3): 223 - 225.
- SK Pal, H Singh.** Genetic variation of guinea fowl alkaline phosphatase. *Indian Journal of Poultry Science*. 1996; 31 (2): 101 - 105.
- SK Pal, V K Saxena, H Singh.** Genetic determination of lysozyme activity levels in guinea fowl egg white and serum. *Indian Journal of Animal Sciences*. 1996; 66 (2): 336 - 339.
- SK Pal, H Singh, SMS Chahal.** Polymorphic protein expression (profile) in numigall. *Indian Journal of Experimental Biology*. 1995; 33 (1): 25- 30.
- H Singh, **SK Pal, MP Mall.** Identification of guinea fowl red cell membrane specificity with natural heamagglutinins. *Indian Journal of Poultry Science*. 1995; 30 (1): 25 - 30.
- SK Pal, H Singh, VK Saxena.** Biochemical gene profile of an Aseel population. *Indian Journal of Poultry Science*. 1994; 29 (2): 126 - 130.
- SK Pal, Singh H, SK Agarwal.** Some polymorphic protein and enzyme systems of quails. *Indian Journal of Animal Sciences*. 1994; 64 (7): 722 - 725.
- SK Pal, H Singh.** Pre- and post-embryonic haemoglobin in guinea fowl. *Indian Journal of Animal Sciences*. 1994; 64 (2):153 -156.
- SK Anand, H Singh, **SK Pal.** Levels of bacterial load on guinea fowl fresh egg shell and internal contents. *Indian Journal of Poultry Science*. 1993; 28 (3): 259 - 261.
- H Singh, **SK Pal, KL Raheja.** Genetic and phenotypic parameters for egg production and egg quality traits in guinea fowl. *Indian Journal of Poultry Science*. 1993; 28 (3): 259 - 261.
- SK Pal, H Singh , S Kumar, VK Saxena.** Genetic divergence among guinea fowl varieties. *Indian Journal of Animal Genetics and Breeding*. 1992; 14 (1): 28 - 30.

Book Chapters / Thesis / Compilations:

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) / National Cancer Institute, Bethesda, MD, USA. 2009.

SK Pal and S Hina Fatima. Evidence based herbal treatment for malignancy: The HUMA therapy. Published by the Huma Cancer Society, Lucknow 2005.

SK Pal and S Hina Fatima. Cancer patients treated with an alternative therapy HUMA: 20 case reports. 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. 2005.

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. 2002

A K Chatterjee, S K Dutta , R S Bhakta , A Mazumdar, G Mukherjee, S Ganguli S, P K Kundu, S P Dey Sarkar, B P Mukhapadhy and **S K Pal**. Use of Psorinum in the treatment of cancer. In Oral Cancer VI. Editor, Major General A.K. Verma, pp 297 - 300. 1999. Macmillan India Ltd.

S K Pal. Genetic Characterisation of indigenous guinea fowl (*Numida meleagris*) germplasm. Ph.D. Thesis approved by Indian Veterinary Research Institute, Izatnagar – 243 122 (U.P.) in 1993.

Electronic Publication:

Sex education among school students. In response to the article of Ramasundram S. Can India avoid being devastated by HIV? *British Medical Journal* 2002; 324: 182 –183.

Increasing cancer incidence in India: What can be done? In response to the article of Mudur G. India has some of the highest cancer rates in the world. *British Medical Journal* 2005; 330: 215.

Website Designed:

<http://www.humacancer.com>

This web site is about a popular alternative cancer therapy HUMA. This herbal cancer therapy originated from Lucknow and is now tried by cancer patients all over India. Vaidya S M Atiq of Lucknow first advocated this herbal cancer therapy in mid 1980s.

<http://www.brojendas.com>

This website is based on the life and achievement of Mr. Brojen Das ‘King of Channel’ and the first Asian to cross the English Channel. Mr. Das crossed the Channel a record six times. He once held two world records.

Invited Lectures / Oral Presentations:

Herbs and Cancer Treatment. In the Division of Clinical Pharmacy, School of Pharmacy & Technology Management, NMIMS University, Mumbai on 27.01.09.

Health an important assert for our country. Balawala Inter Mediate School, Balawala, Dehradun on 08.04.08. (Lecture was organized to spread health awareness among school student on the occasion of the World Health Day)

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 07.09.07. (National Seminar on Evidence Based Ayurveda & CME on Biomedical Research Methods).

The role of herbal medicine in fight against HIV/AIDS and cancer. Main auditorium, Central Plantation Crop Research Institute, Kasaragod on 16.02.07. (2nd Seminar on Evidence based & Integrative Medicine for Lymphatic Filariasis, other Chronic Dermatoses and HIV/AIDS).

Treatment of cancer with traditional and herbal medicines: implication for new drug discovery. Mini Auditorium, C.D.R.I., Lucknow on 10.08.2006.

Oral malignancy treatment with a popular alternative cancer therapy 'HUMA'. Convention Center, Rajiv Gandhi Institute of Health Sciences, Trivandrum on 28.01.2006 (ORCA Conference 2006).

To study the effect of a poly herbal medicine 'HUMA' in 25 patients suffering from oral malignancy. Mowbrays Hall, Park Sheraton, Chennai on 10.12.2005 (6th INCTR Annual Meeting).

A to Z about HIV / AIDS. Institute lecture hall, Colvin Talukadar School, Lucknow on 01.12.2005.

Complementary and alternative medicine (CAM), reverse pharmacology and drug discovery. Institute Lecture Theatre 1, Institute of Medical Sciences, Banaras Hindu University, Varanasi on 25.09.2005.

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 2002.

The Role of Genetics in management of Cancer, in Department of Zoology, Dhaka University, Bangladesh. June 1999.

What a school student should know about cancer & HIV/AIDS Ideal H. S. School, Bhopal. August 1998.

Abstracts:

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 on February 06 – 07, 2009.

SR Sammi, B Singh, **SK Pal**. Anticancer and analgesic effect of homeopathic medicine containing snake venom. In the book of Abstract & Souvenir, 3rd Uttarakhand State Science and Technology Congress, held at IIT Roorkee from 10 – 11 November, 2008. p 67.

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.. UICC World Cancer Congress August 27 – 31, 2008, Geneva, Switzerland. PUB 208.

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.

PS Bedi, KD Saxena, B Singh, D Ghosh, **SK Pal**. Effect of *Cichorium intybus* Linn. Anainst aflatoxicosis induced in albino rats. UICC World Cancer Congress August, 27 – 31, 2008, Geneva, Switzerland. PUB 340.

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 28th 2008. A 26.

SR Sammi, **S K Pal**. Development of low cost thermal cyler: 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 28th 2008. A 30.

R Sharma, S Rastogi, L Kumar, D Ghosh, **SK Pal**, PS Bedi, B Singh. Investigation on the hepato-protective potential of Bhringraj in CCl₄ 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.

SH Fatima, GS Bedi, **SK Pal**. An investigation on the growing popularity of an alternative cancer therapy HUMA. In the proceedings of the 27th Annual convention of Indian Association for Cancer Research, held at Gujarat Cancer & Research Institute, Ahmedabad from February 7 – 9, 2008. PP - 03.

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 27th Annual convention of Indian Association for Cancer Research, held at Gujarat Cancer & Research Institute, Ahmedabad from February 7 – 9, 2008. PP- 30.

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 27th Annual convention of Indian Association for Cancer Research, held at Gujarat Cancer & Research Institute, Ahmedabad from February 7 – 9, 2008. PP - 33.

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 27th Annual convention of Indian Association for Cancer Research, held at Gujarat Cancer & Research Institute, Ahmedabad from February 7 – 9, 2008. PP- 62.

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 2nd Uttarakhand State Science Congress, held at Kumaun University, Nainital from November 15 – 17, 2007.

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.

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.

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

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SK Pal, A K Chatterjee. Homoeopathist play an important role in the management of terminal cancer patients in Calcutta. Second UICC Cancer Management Meeting "The team approach to cancer management," Antwerp, Held at Belgium, April 14-18, 1999. P 037

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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.

SK Pal, H Singh, Sanjeev Kumar. Effect of socialism on biochemical polymorphic status of guinea fowl. In proceedings of the National conference on Environment and Applied Biology. Held at Bareilly College from February 5 - 7, 1993. D 14.

S Kumar, **SK Pal**, H Singh. Isolation and restriction endonuclease analysis of guinea fowl genomic DNA. In proceedings of the XV Annual Conference and Symposium of Indian Poultry Science Association (IPSA). Held at Central Agricultural Research Institute, Port Blair, from January 16 - 18, 1993. AGB 14.

SK Pal, H Singh. Genetic studies on serum and egg white lysozyme 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 24.

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.

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.

SK Pal, H Singh, VK Saxena. Status of biochemical polymorphic systems in indigenous guinea fowl germplasm. In proceedings of the 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. BS 20.

SK Pal, H Singh, S Kumar, VK Saxena. Genetic distances among guinea fowl genetic groups as revealed through growth, conformational and lysozyme levels. In proceedings of the 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. BS 21.

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.

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.

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 the Gregor Johan Mendal Birthday Lecture series and Symposium International. Held at University of Calicut, from July 22 - 23, 1992.

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.

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.

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.

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.

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.

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.

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.

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.

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.

International Journal of Medicine and Medical Sciences (1)

Indian Journal of Experimental Biology (3)

Health Policy (1)

Asked to comment on an article published in Lancet Oncology.

Life Member of Scientific Societies:

Indian Society of Animal Genetics & Breeding
Indian Association for Cancer Research

Organizing skills:

I was in-charge of the patient counseling centre in the Health Camp organized by SBSPGI at Balawala on December 03, 2006.

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 09.10.07. Topic: Biotechnological and conventional genetic approaches for improvement of animal and poultry species.

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.

Was in-charge of the inter-house debate competition held on November 9, 2007, at the Seminar Hall of SBSPGI.

Was a member of reception committee in the SBS UTSAV 2007 & Annual Day celebration from November 14 -17, 2007.

Event in-charge for the World AIDS Day program held on December 1, 2007 at SBSPGI.

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, 2007. Topic: World AIDS 2007: You , Me, Us.

In-charge venue arrangement committee of the 1st 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.

Organising committee of the Public Seminar ‘New Dimension in the Treatment of Migraine,’ held at Indian Merchants’ Chamber, Churchgate, Mumbai on November 20, 2008. Event sponsored by: Ipca Laboratories Limited, Mumbai.

Coordinator of the Re-Orientation Training Program for Medical Professional, held at Ipca Laboratories Limited, Mumbai from 26th – 29th March, 2009.

Details of Conferences and Seminar Attended:

XI Annual Conference of Environmental Mutagen Society of India. Held at Madras from February 20 – 22, 1986.

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, November 5 - 7, 1992.

XX World's Poultry Congress Vol IV. Held at New Delhi from, September 2 - 5, 1996.

Satellite Conference on Tumour Immunology (10th International Congress of Immunology), held at Chittaranjan National Cancer Institute, Calcutta from Oct. 28 - 30. 1998.

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, 1999.

25th Annual Conference of India Society of Human Genetics. Held at Nagpur, from January 9 – 10, 2000.

National Symposium on Carcinoma Gallbladder, held at King George's Medical College, Lucknow on March 16th 2001.

8th 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, 2001.

89th 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.

1st 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, 2002.

11th 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 (upgraded KGMC) Lucknow from September 19 -21, 2003.

24th 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.

2nd 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.

6th INCTR Annual Meeting held at Chennai from December 10 – 13, 2005.

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.

2nd 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 14 – 16 February, 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 11th 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, 2007.

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 PG Institute of Biomedical Sciences and Research, Balawala, Dehradun on February 28th 2008.

BioLOGK'08: Lecture Series on Biotechnology. Held at M N Ghosh Auditorium, ONGC, Dehradun on 15.04.08. Organised by the Beehive College of Advance Studies, Dehradun.

Symposium on Safety Profile of Rasaushadhies. Held at Banaras Hindu University, Varanasi on February 06 – 07, 2009.

Miscellaneous Information

I have anchored many health awareness programs in the Doctor Student Dialogue segment of the City Montessori School 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).

Awarded Peter Kirk fellowship to attend the 8th International Conference of the Indian Association of Palliative Care, held in Bhopal from 2 – 4th 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.

Personal Information

I am married and have one daughter. My wife Sanghita is a school teacher Ryan International School, Kandivali, Mumbai. I have one brother (Sandip) and a sister (Samita), both younger to me. My father Dr. D. N. Pal is a dermatologist. He retired as D.M.O. from South Eastern Railway Hospital, Kharagpur. Currently, he is the President of the 'Indian Medical Association' Kharagpur Branch. 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.brojenddas.com). One of my brothers-in-law, Dr. Sumit Kar is Professor and head, Department of Dermatology, Mahatma Gandhi Institute of Medical Sciences, Sewagram. My brother is a software expert and manages his own Computer Firm 'Centre for Advance Communication' in Science and Technology Entrepreneur Park, Indian Institute of Technology, Kharagpur.

Category : General

Height : 1.65 meters **Weight :** 65 Kg. **Eye colour :** Brown **Blood Group :** B+ **Non Smoker**

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