

Curriculum Vitae

1. Name: Dr. (Mrs) Kalpana Dash

2. Date of Birth: 18.07.1963

3. Designation: Principal, School of Biotech Sciences,
TACT Bhubaneswar

4. Present Address: Plot No.486/K-8, Kalinga Nagar-8, Ghatikia Bhubaneswar

5. E-Mail Id: kalpanadash63@gmail.com

6. Academic Profile:

6.1 1st class in M.Sc. Zoology from Utkal University 1982-1984

6.2 Ph.D. in Medical Microbiology/Immunology from Vallabh Bhai Patel Chest Institution, Delhi University 1985-1991 under the guidance of 1. Dr. (Prof.) **Kunal Saha**, HOD, Dept of Allergy and Immunology, VPCT, Delhi 2. **Dr. (Prof) S.V.Gangal** Director CBT, CSIR, Delhi.

7. Research/Teaching Experience: 18 years

JRF & SRF	1985-1990	ICMR, Delhi	V.P. Chest Institute Delhi University
Post Doc	1993-1996	CIFA, ICAR	CIFA Kausalya Ganga, BBSR,
Pool Officer	1996-1999	CSIR, Scientist Pool Scheme	-do-
Additional Director and Dean Biotechnology Division. TACT	2000-2013	TACT, Bhubaneswar	TACT, Bhubaneswar
Principal, School of Biotech Sciences. TACT, Bhubaneswar	2022- cont.	TACT, Bhubaneswar	TACT, Bhubaneswar

8. Research Profile

- 8.1 Immunohematology : Blood typing, Rh Typing, Determination of secretor status, Absorption & inhibition of blood group antigen TLS, DLC, Immuno florescence etc.
- 8.2 Immunology : Antigen antibody interaction, Immunoprecipitation, Single Radial Immunodiffusion Double radial Immuno diffusion cross Immunoelectrophoresis, Rocket electrophoresis ELISA, RIA, DOT Blotting, Western Blotting, isolation, estimation of O₂ from m of complement mediated lysis (CH₅₀, APCH₅₀) Lymphocyte transformation assay, Lymphocyte culture.
- 8.3 Histology & E.M : Study of normal and irradiated erythrocytes and lymphocytes, E.M. Study of Primitive lymphoid organs.
- 8.4 Biotechnological study : Protein purification, Chromatography, Ion Exchange Chromatography, HPLC, FPLC, PCR, Western Southern Blotting Receptor Binding study.
- 8.5 Fish & Fisheries Science : Fish pathology & Fish physiology, Hormone Therapy in fishes Pesticide Effect on fish Immune System.

9. Teaching Profile

- 9.1 M.Sc Biotechnology classes of 8 batches in TACT (under Utkal university) from 2002-2009
- 9.2 Guest Faculty for M.Sc in Industrial and Applied Microbiology Dept Utkal University from 2002-2003

10. Publication Profile

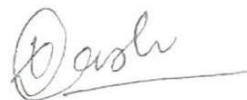
- 10.1 K.Saha, K.D. Chattopadhyaya, Kalpana Dash , U.Saha , P.K.Tyagi, M.M.Gupta, A.Paraashwar and A.K. Sharma (1990), Sexual transmitted diseases in leprosy patients in North and Northern India, A futile research for human immunodeficiency virus antibody, *Intern. J.Leprosy*, 58.
- 10.2 Dash, Kalpana , K.Saha, A Sahu and S.V Gangal (1993), Natural serum haemagglutinins (lectins) in catfish, *Clarias batrachus*, Purification and binding studies with RaRBC, *Fish Shellfish Immunol.* 3:361-370
- 10.3 Dash, Kalpana , K.Saha, A Sahu and S.V Gangal (1993), Natural serum haemagglutinins (lectin) in fish, Physicochemical characterization, *Fish Shellfish Immunol.* 3:345-360
- 10.4 Saha,K, Dash Kalpana , A Sahu (1993), Antibody-dependent haemolysis, complement and opsonin sera of a major carp, *Cirrhinus mrigala* and catfish, *Clarias batrachus* and *Heteropneustes fossilis*, *Comp Immunol, Microbiol. Infect Dis.*, 16:323-330

- 10.5 Dash, Kalpana, S.C. Mikhjee and K.Saha(1994) Purification and characterization of fish lectin and it's role in defence mechanism , Eighth All India Congress of Zoology, April Utkal University, Vani Vihar, 21-28 1994.
- 10.6 Dash Kalpana (1998), Importance of Immunology in hormone therapy in fishes . In : Training programme on Reproductive Physiology of Carps, pp.64-66. Central Institute of Freshwater Aquaculture, Bhubaneswar.
- 10.7 Dash, Kalpana , R.C.Das and B.N Singh (1998) . The immunological action of ovaprim in Heteropneustes fossils (Bloch). In : Proceedings of the National Workshop on Recent Advances in Hormonal Physiology of Fish and Shellfish Reproduction, April 16-18, 1998.p.39. Central Institute of Freshwater Aquaculture, Bhubaneswar.
- 10.8 Dash, Kalpana, A.K.Pandey and S.Ayyappan(2000) Suppression in haemolytic activities and specific antibody response of sera from Indian major carps treated with malathion, *Indian J .Fish.*, 47:71-76.
- 10.9 Dash, Kalpana, A.K.Pandey and S.Ayyappan(1990) Suppression in haemolytic activities and specific antibody response of sera from Indian major carps treated with malathion, . In : National Symposium on Man and Environment : Reflections and Vision for Future (December 02-04, 1999) Department of Zoology, Andhra University, Vishakhapatnam.
- 10.10 Dash, Kalpana, K.Saha, A.K.pandey, A.K.Jain and A.Mukhrjee (2000) Ultra structural observations on the lymphoid organs of the Indian Catfish, *Clarias batrachus* (Linnaeus) . In: International conference on Probing in Biological System (February 07-11,2000). Department of Zoology, The Institute of Science, Mumbai, pp.205.
- 10.11 Dash Kalpana, A.K.Pandey and S.Ayyapan(2000), Suppression in haemolytic activities and specific antibody response of sera of the Indian Major corps treated with malathion, *Indian J.Fish*; 47(Ci) 71-76.
- 10.12 Mishra, A., A.K. Pandey , Kalpana Dash, C.Saha and P.Das (2000). Stress – induced immunity suppression in carps used for polyculture. *Aquaculture* Vol.1, No.-2, 97-104.
- 10.13 Dash Kalpana, K.Saha, A.K.Pandey (2000) Ultra Structural observations on the lymphoid organs of the freshwater catfish, *Clarias batrachus* (Linnaeus). In International Conference on Probing in Biological Systems, February 7-11, 2000, pp.205. The Institute of Science, Mumbai.
- 10.14 Dash, Kalpana, K.Saha, AK Pandey, A.K.Jain and A.Mukherjee (2003) Ultra structural observation on the lymphoid organs of the Indian catfish, *Clarias batrachus*(Linnaeus). *J.Envirn Biol* , 24(3) 265-269.

11. Training / Symposia / Seminar (Attended Papers Presented Presided)

- 11.1 Workshop on Lectin conducted by Deptt of Biochemistry, University of Delhi & CSIR Centre of Biochemical April 1987.
- 11.2 Paper presented in Symposium on Biochemistry and Molecular Pathology of Long(November 07-09, 1988) Orsanised by Vallabbhai Patel Chest Institute New Delhi.
- 11.3 National Workshop on Radiochemistry and Application of Radioisotopes – organised by Central Institute of Freshwater Aquaculture Bhubaneswar) & IANCAS at Bhubaneswar during 1994.
- 11.4 National Workshop on Fish and Shellfish Health Management Organised by Central Institute of Freshwater Aquaculture Bhubaneswar during April 1994.
- 11.5 Paper presented in the National Workshop on Hormonal Physiology in Fish and Shellfish Reproduction (April 16 – 18, 1998) Central Institute of Freshwater Aquaculture Bhubaneswar)
- 11.6 Lecturer delivered on “Importance of Immunology in hormone therapy in fishes” in Training Program on Reproductive Physiology of Carps and Catfishes (July 27-August 1, 1998) Central Institute of Freshwater Aquaculture, Bhubaneswar.
- 11.7 Training on Application of Computer in Aquaculture by ET&T – A Govt of India Undertaking during July 1999.
- 11.8 Lecturer delivered, in training programme on : Reproductive Physiology of Carp and catfish on 17-23 Aug 2004 in CIFA, (ICAR) Kausalyagang, BBSR

- 11.9 Participants of Seminar on Potential of Biotechnologist of Orissa conducted by Dept, of Biotechnology of Orissa held at Institute of Physics (10P) BBSR on Feb-2005.
- 11.10 Conducted the Orientation Seminar on “Biotechnology for the college Lecturer of Orissa “A New Frontier Of Life Sciences” in collaboration of RRL, BBSR on 25th Feb 2006.
- 11.11 Conducted Orissa Biotech Olympiad for Graduate and Post Graduate Science students on 20th December 2006,
- 11.12 Conducted quiz competition “BIOQUEST 09” for +2 level science students on 27th Nov 09 at TACT
- 12. Membership / Guide
 - 12.1 Life Member –Association of Microbiologists in India
 - 12.2 Life Member –Journal of Environmental Biology
 - 12.3. Member of Fishnet on Oct 97, Vol 1 , No.3.



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