

National Bureau of Fish Genetic Resources

(Indian Council of Agricultural Research) Canal Ring Road, Dilkusha PO, Lucknow-226002, India



Name	Dr. Ajay Kumar Pandey
Designation	Principal Scientist
Date of birth	01.02.1957
Professional experience	Since March 1986
Qualification	M.Sc., Ph.D. (University of Gorakhpur)
Current area of Research	Neuroendocrine regulation of reproduction in fish and prawnsAquatic toxicology
Area of Research Expertise	 Reproductive physiology of carps and catfishes Aquatic toxicology Endocrinology of drug metabolism
Awards/ Recognitions (only National and International)	 Archana Pallav Gold Medal of the Academy of Environmental Biology, Lucknow Dr. S.Z. Qasim Gold Medal of the Society of Biosciences, Muzaffarnagar Eminent Scientist of the Year Award, National Environmental Science Academy, New Delhi
Publication (no.) • Research papers • Reviews • Books • Book Chapters • Popular articles • Others (Editorial Assistance)	159 13 04 56 33 01

Important Research Publications

- Pandey A K, Krishna L, Srivastav A K and Swarup K (1982). Response of serum calcium to administration of an extract from Stannius corpuscles in the anurans. *Experientia*, **38**: 1314-1315.
- **Pandey A K** (1984). Chemical signals in fishes: theory and application. *Acta Hydrochim. Hydrobiol.*, **12**: 464-478.
- Pandey A K (1991). Endocrinology of calcium regulation in reptiles: a comparative aspect in lower vertebrates. *Biol. Struct. Morphogen. (Paris)*, **3**: 159-176.

- Pandey A K (1992). Endocrnology of calcium metabolism in amphibians, with emphasis on the evolution of hypercalcemic regulationin tetrapods. *Biol. Struct Morphogen. (Paris*), 4: 102-126.
- Pandey A K (2005). Recent advances in fish pheromone research with emphasis on their potential applications in fisheries. J. Appl. Zool. Res., 16: 210-216.
- Pandey A K and A Kumar (2006). Changes in neurosecretory cells of eyestalk, brain and thoracic ganglia of female giant freshwater prawn, *Macrobrachium rosenbergii*, in relation to gonadal maturation. *J. Environ. Biol.*, **27**: 225-233.
- Mishra D K, K Bohidar and **Pandey A K** (2006). Histopathological changes in kidney of freshwater teleost, *Channa punctatus*, exposed to sublethal concentration of carbaryl and cartap. *J. Inland Fish. Soc. India*, **38(2)**: 67-72.
- Mishra D K, Bohidar K and **Pandey A K** (2007). Occurrence of vesicle in the pituitary gland of the freshwater teleost, *Channa punctatus* (Bloch). *J. Inland Fish. Soc. India*, **39(1)**: 68-71.
- Ruhela S, **Pandey A K** and Khare A K (2008). Histopathological manifestations in kidney of *Clarias batrachus* induced by experimental *Procamallanus* infection. *J. Environ. Biol.*, **29**: 739-742.
- Mishra D K, Bohidar K and **Pandey A K** (2008). Effect of sublethal exposure of cartap on hypothalamo-neurosecretory system of the freshwater teleost, *Channa punctatus* (Bloch). *J. Environ. Biol.*, **29**: 917-922.
- Barai S R, Suryawanshi S A and **Pandey A K** (2009). Levels of plasma sodium and potassium levels as well as alterations in adrenal cortex of *Rattus norvegicus* to sublethal heroin administration. *J. Environ. Biol.*, **30**: 253-258.
- Mani C V and **Pandey A K** (2009). Histo-morphological changes in the hypothalamoneurosecretory cells and gonadotrophs of *Heteropneustes fossilis* (Bloch) in relation to ovarian maturation. *J Appl. Biosci.*, **35**: 43-50.
- Barai S R, Suryawanshi S A and **Pandey A K** (2009). Responses of plasma calcium and inorganic phosphate levels, parathyroid gland and calcitonin-producing C cells of *Rattus norvegicus* to sublethal heroin administration. *J. Envirn. Biol.*, **30**: 917-922.
- Mishra D K, Bohidar K and **Pandey A K** (2009). Response of hypothalamo-neurosecretory system of the freshwater teleost, *Channa punctatus* (Bloch), to sublethal exposure of carbaryl. *J. Inland Fish. Soc. India*, **41 (1)**: 51-56.
- Bhoir K K, Suryawansghi S A and **Pandey A K** (2009). Effects of sublethal heroin administration on serum thyroid stimulating hormone (TSH), thyroid hormones (T₃, T₄) and thyroid gland of *Rattus norvegicus*. *J. Environ. Biol.*, **30**: 989-994.