

# Shachindra Kumar Pandey

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**Permanent Address:** S/O Mr. R. N. Pandey, Mohalla Chaklan, Near Ramesh Sweets, Jwalapur, District Haridwar, Uttarakhand- 249407

**Temporary Address:** House No. 940, Near Mother dairy, Sector 15 Part II, Gurgaon, Haryana - 122001

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## PROFESSIONAL EXPERIENCE:

Presently working as a Retained Partner in K & S Partners (A Law Firm specializing in Intellectual Property Rights) – joined in August, 2008 as Associate, elevated to position of Senior Associate in 2014 and thereafter elevated to position of Retained Partner in 2018.

Main responsibilities include:

1. **Patent Drafting:** Preparation of utility patent applications- End-to-end drafting of patent applications (provisional/ non-provisional) specifically in microbiology, bio-technology, molecular biology, nanotechnology (NDDS) and pharmaceuticals including Claim preparation
2. **Patent Search:** Patent searches with regard to- Patentability/ Infringement / Invalidation / Opposition.
3. **Patentability Opinion / FTO Opinion**
4. **Office Actions:** Handling Office actions and PTO correspondences (Indian as well as foreign).
5. **Patent proofreading:** Proof-reading of Patent specifications.
6. **Filing & Prosecuting of Patent Applications:**
  - Regular patent applications;
  - PCT Applications;
  - PCT National Phase Applications;
  - Convention Applications;
  - Handling Office Actions from various jurisdictions
7. **Opposition/Litigation related matters:** Part of various internal teams regarding Opposition, Revocation, Infringement etc.

## RESEARCH EXPERIENCE:

- Post-doctoral Fellow, Institute of Life Sciences, Bhubaneswar (September 2004 to May 2008):  
In my postdoctoral research, I worked on the functional genomics of extremophiles. The major objective of the study was to assess the bacterial diversity (cultivable and uncultivable) in the hot springs located in the state of Orissa, India and decipher the phylogenetic and ecological relations of novel strains obtained during the study. I also focused on bio-prospecting for some important enzymes (Cellulase, Protease and Lipase) from selected thermophiles obtained therefrom.
- Doctoral Study, Gurukul Kangri University and IARI (January 2000 to September 2004):  
*Bacillus thuringiensis* has been used as a potent bio-pesticide against lepidopteran pests for many years now. The study was undertaken keeping in mind the deficit in information about relative efficacy of some commonly used *Bacillus thuringiensis* subspecies (available as commercial preparations in market) against *Spodoptera litura*. The study aimed to investigate a link between the activity of different subspecies *in vivo* (deducing LC<sub>50</sub> by Probit Analysis) and their respective growth rates *in vitro*. Along with this, the viable spore count and total protein content of bacteria in these market-based preparations were also estimated, so that the efficacy of the preparation as such could be ascertained directly. Time based histo-pathological studies were also conducted on the mid-gut of *S. litura* larvae, to ascertain the extent of destruction caused by *Bacillus thuringiensis*  $\delta$  endotoxin.
- Served as Assistant Editor in the editorial board of Himalayan Journal of Environment & Zoology, published by Indian Academy of Environmental Science, Haridwar for three years (2001-2003)
- Worked as Field Assistant in a project entitled "Resource assessment and bio-diversity characteristics of fish fauna of the Bhagirathi and Yamuna catchment system in Garhwal Himalaya".

## ACADEMIC QUALIFICATIONS:

- Ph.D. (2004), Environmental Sciences, Gurukula Kangri University, Haridwar, India.
- M.Sc. (Microbiology), 1998, Gurukula Kangri University, Haridwar, India.
- B.Sc. (Biology), 1996, Gurukula Kangri University, Haridwar, India.

## ADDITIONAL QUALIFICATIONS:

- Qualified Patent Agent Exam conducted by Indian Patent Office in the Year 2013 (INPA 2161)
- Completed L.Lb. form Chaudhary Charan Singh University, Meerut (2014) – Registered in Delhi Bar with number D/954/2016.
- Completed a six month web-based “Industrial Programme in Nanotechnology Program” (2010) from Nano Science and Technology Consortium NSTC, Noida

- Completed a six month web-based “Nanotechnology Sensitization Program” (2009) from (NSTC), Noida
- Diploma in Patents Law from WIPO (2007)
- Diploma in Patents Law from NALSAR, Hyderabad (2006)
- Diploma in Biopesticides technology and Biofertilizer production (2001) Annamalai University

## PUBLICATIONS:

1. Kunwar Digvijay Narayan, **Shachindra K. Pandey** and Subrata K. Das. (2010) "Characterization of *Comamonas thiooxidans* sp. nov. and comparison of thiosulfate oxidation with *Comamonas testosteroni* and *Comamonas composti*".- manuscript accepted for publication in the Journal “*Current Microbiology*” October 2010, Volume 61, Issue 4, pp 248-253.
2. **Shachindra K. Pandey**, Kunwar Digvijay Narayan, Saumya Bandyopadhyay, Kinshuk C. Nayak and Subrata K. Das. Thiosulfate oxidation by *Comamonas* sp. S23 isolated from a sulfur spring –in the Journal “*Current Microbiology*” May 2009, Volume 58, Issue 5, pp 516-521.
3. **S. Pandey**, B. D. Joshi and L. D. Tiwari. (2009) Histo-pathological changes in the midgut of *Spodoptera litura* larvae on ingestion of *Bacillus thuringiensis* delta endotoxin, *Archives of Phytopathology and Plant Protection*. 42 (4): 376 – 383.
4. **Shachindra Pandey**, Bishwambhar D. Joshi, and Lakshmi D. Tiwari (2009) Relative efficacy of two subspecies of *Bacillus thuringiensis*, available as commercial preparations in market, on different stages of a lepidopteran pest, *Spodoptera litura*, (Fabricius). *Archives of Phytopathology and Plant Protection*. 42 (10): 903 – 914.
5. Patra, M., **Pandey, S.K.**, Ramamurthy, T., Singh, D.V and Das, S.K. (2007). Characterization of cytotoxin producing *Aeromonas caviae* (strain HT10) isolated from a sulfur spring in Orissa, India. *Lett Appl Microbiol*. 44: 338-341
6. **Pandey, S.**, Joshi, B. D. and Tiwari, L. D. (2005). New record of *Eocanthecona furcellata* (Wolff.), [Heteroptera: Pentatomidae] as a predator of the introduced *Parthenium* bio-control agent, *Zygogramma bichlorata* (Pallister) and it's cannibalistic feeding behaviour, *Entomon*.30,347-350
7. R. Bhutiani, D. R. Khanna and **Shachindra Pandey** (2005): Biodiversity conservation: The need of the hour. *Journal Aquacult*, 6(1): 117-120.
8. **S. Pandey**, B. D. Joshi and L.D. Tiwari (2002). First report of a new predator, *Andrallus spinidens* (Fabr.) on Mexican beetle, *Zygogramma bichlorata* (Pallister) from Uttaranchal, India”, *Indian Journal of Entomology*.64 (1),113-116.
9. **S. Pandey**, B. D. Joshi and L. D. Tiwari. (2001). The incidence and biology of Mexican beetle *Zygogramma bichlorata* Pallister (Coleoptera: Chrysomelidae) on *Parthenium hysterophorus* L. (Asteraceae) from Hardwar and surrounding areas, *Journal of Entomological Research*.25,(2)145-150.
10. **S. K. Pandey**, Kartikeya Gupta and G.Prasad (1999) “Antibacterial activity of certain indigenous drugs and drug plants against certain bacterial species” *Hamdard Medicus* (Vol.XLII, No.3).

## TECHNIQUES WORKED ON DURING RESEARCH WORK:

- **Basic Molecular Biology, Biochemistry, Chromatography & Microbiology techniques**

## SEMINARS/WORKSHOPS ATTENDED:

- Participated in Asian Patent Attorneys Association (APAA) meeting in Delhi, India, 2018.
- **30<sup>th</sup> TIFAC Foundation Day**, 2017 Venue IIT Delhi.
- **Bio-Asia**, 2016 meeting in Hyderabad.
- **8th Global IP Conference (GIPC)**, 2016 Venue: J W Marriot, Aerocity, New Delhi
- **Round Table on Law** sponsored by University of Petroleum & Energy Studies, on May 7, 2016, New Delhi.
- ASSOCHAM 6<sup>th</sup> National Conference on Drafting of Commercial Agreements, 8th July, Delhi
- Conference on “Generic Medicines in India: Promulgating Growth & Access” on September 3, 2015, Chandigarh
- Indo-European Conference on Fostering Co-operation in Research, Innovation and IPR organized by CII in collaboration with European Business & Technology Centre (EBTC) and European Patent Office (EPO) on 5 June, 2015, Delhi .
- Participated in **Bio-Asia**, 2014 meeting in Hyderabad.
- FICCI- IPO- DU IP Awareness Program, New Delhi- 1st & 2nd November 2014.
- Several other conferences organized by FICCI, ASSOCHAM etc.
- **World IP Conference**, 2015 – Delhi
- Participated in Asian Patent Attorneys Association (APAA) meeting in Hanoi, Vietnam, 2013.
- **4<sup>th</sup> Global IP Convention, 2012, New Delhi**
- Participation in Seminar & Training on **Broadband Spectral Laser Scanning Microscopy Systems**, at the Institute of Life Sciences, Bhubaneswar, India organized by Leica Microsystems during May 22-24, 2007.
- Participation in one day workshop on "**Patent and Intellectual Property Rights Awareness**" conducted by Department of Biotechnology at IIT, Roorkee, 2002.
- Participation in one day workshop and exhibition on "**Bio-Environmental Control of Malaria**" to celebrate the Silver Jubilee of establishment of Malaria Research Center at BHEL Hospital, 2002.
- **Participated in several other International/National Seminars related to biotechnology, microbiology and environmental sciences.**

## PRESENTATIONS REGARDING IPR (PATENTS)

- Presentation on Topic – “Patents in Biotechnology” at “International conference on Innovative Research in Biotechnology, Biomedical Sciences, Bioinformatics and Stem cell applications” organized by “Krishi Sanskriti” on 30<sup>th</sup> of January, 2016, JNU

- Presentation on Topic – “Patents in Biotechnology” at International Conference on New Approaches in Biotechnology & Biosciences "NABB 2016" to be organized on February 18-20, 2016 jointly by Department of Biotechnology, Raja Balwant Singh Engineering Technical Campus, Bichpuri, Agra-283105 and Society for sustainable agriculture & resource management, (SSARM), HISAR, INDIA
- Presentation on Topic – “Patent filing and the mistakes commonly committed by researchers” at “Workshop on identifying, managing and protecting intellectual property”, Panjab University South Campus, Chandigarh (March 10, 2016)
- Presentation on the topic – “Patentability Criteria (Novelty, Inventiveness and Utility) + Some Practical Tips” at one day workshop on patents “PATENT DRAFTING AND FILING in Association with TIFAC, DEPARTMENT OF SCIENCE & TECHNOLOGY, Government of India (20th October, 2016) at Department of Biotechnology, Shri Mata Vaishno Devi University Katra, Jammu and Kashmir, India, 182320
- Presentation on two topics – (1.) HOW TO CONSTRUCT A VIABLE PATENT- THE “LAY-OUT”, “BRICKS” AND “CEMENT” and (2.) IPR ISSUES IN BIO-TECH PATENTS at IIT, Mandi on 12th May 2017.
- Presentation on topic - PATENT OVERVIEW - THE THINGS THAT YOU NEED TO KNOW” at Shri Mata Vaishno Devi University, Katra, Jammu during PATENTS FILING WORKSHOP conducted by SMVDU TBIC on 23rd of January, 2018
- Presentation on topic – Overview of Intellectual Property Rights at Gurukul Kangri University, on 12<sup>th</sup> of October, 2018 during national workshop on “Research Methodology in Science and Technology.
- Presentation on topic – BRICKS & MORTAR OF PATENTING at BHU, on 18<sup>th</sup> of March, 2019
- Presentation on topic – The How, When, What, Where and Why of Patents -some case studies, at UIPS, Panjab University during “Innovation and entrepreneurship program” on 12<sup>th</sup> of April, 2019.

## **SEMINARS/ WORKSHOPS ORGANISED:**

- **IP AWARENESS WORKSHOP IN BIO-PHARMA** (2016 &2019) at K & S Partners, Gurgaon.
- Acted as a member of organising committee of **National Symposium on Status of India’s Faunistic Diversity and Environment & 12<sup>th</sup> All India Congress of Zoology**, Dec-29-31, 2001, held at Department of Zoology & Environmental Sciences. Gurukul Kangri University, Haridwar.

- Acted twice as a member of organizing committee of **Workshop on Molecular biology concepts and techniques** being held at Institute of Life Sciences, Bhubaneswar.

## **AWARDS AND HONOURS:**

- Currently working as an invited member in the “Innovation Council” of SMVDU, Katra
- Currently working as visiting faculty at IIT, Mandi for Curriculum on IPR for M.Tech, Biotech students.
- Fellow of Applied and Natural Science Foundation (ANSF)
- Qualified National Eligibility Test conducted by Agricultural Scientist Recruitment Board in the Year 2004.
- Awarded 1st Prize for Poster Presentation in Environmental Science Section at "46th Annual Conference of Association of Microbiologist's of India – Micro-Biotech 2005 "
- Have acted as reviewer in two international journals:
  - BioResources
  - World Patent Information (WPI)
  - Himalayan journal of Environment and Zoology

My contribution to WPI was recognized in form of a certificate and 6 months free subscription of Elsevier group of journals.

## **MEMBERSHIPS:**

- Life member of BRSI (Biotech Research Society of India).
- Life member of AMI (Association of Microbiologist's of India).
- Life member of SBA (Society of Biocontrol Advancement, India).
- Life member of IAES (Indian Academy of Environmental Sciences, India)

## **REFERENCES**

(1.) Dr. Deepa Tiku

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Gurgaon, Haryana, India

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(2.) Mr. Anupam Trivedi ,

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**(SHACHINDRA KUMAR PANDEY)**