

CURRICULAM VITAE OF DR. MUKESH KUMAR THAKAR

Name : **MUKESH KUMAR THAKAR**

Father Name : **HARBANS LAL THAKAR**

Date of Birth : **November 9, 1964**

Present Address : **Professor and Head,
Department of Forensic Science,
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EDUCATIONAL QUALIFICATION

- Ph.D. (1993) in **Forensic Science** from Punjabi University, Patiala, Thesis entitled “**Identification from Hair: A Study of Some Morphological and Serological Characteristics**”.
- Master of Science (1987) in **Forensic Science** from Punjabi University, Patiala in First Division (with specialization in Forensic Biology and Serology) M.Sc. Dissertation entitled “**Determination of Blood Groups from Saliva of Paan Chewing Individuals**”.
- Bachelor of Science (Major Botany, Chemistry and Zoology) in 1985 from Punjabi University, Patiala in First Division.

Areas of Research:

**Forensic Science, Forensic Biology and Serology including DNA Profiling,
Criminalistics, Fingerprints and Crime Scene Investigation**

EXPERIENCES:**WORK EXPERIENCE:****ADMINISTRATIVE EXPERIENCE:**

1. Joined **Second term** as **Head, Department of Forensic Science, Punjabi University, Patiala** the second oldest department of India and first of north India, from 12-08-22.
2. Successfully completed **first term** as **Head, Department of Forensic Science, Punjabi University, Patiala** the second oldest department of India and first of north India, from 12-08-07 to 11-08-2010.

During these three-year tenure as HOD, the following important events were organized:

- ❖ Organized Two International Symposium on different aspects of Forensic Science
- ❖ Established Cyber Crime Laboratory in the department, which was inaugurated by **S. M.S. Gill**, DGP of Punjab
- ❖ Organized successfully, three days course on *Cyber and Computer Crime Investigation* for Gazetted Punjab Police Officers (not below the Rank of DSP) only
- ❖ As a Local Coordinator, organized a three day Regional Workshop on *Research as Pedagogy a Science Teacher Education programme (RAP a STEP) for teachers of undergraduate science courses. Which was sponsored by MHRD supported Center of Excellence for science and Math (COESME) of IISER (Indian Institute of Science and Research), Pune and Department of Biotechnology (DBT), Govt. of India at Punjabi University, Patiala from September 29 to October 1, 2016.*
- ❖ Member/nominee of Vice Chancellor/Registrar/Dean Academic Affair/Dean, Academic Affair for many different committees of the university.

ACADEMIC EXPERIENCE:

- ❖ Presently working as a **Professor** in the Department of Forensic Science, Punjabi University, Patiala since August 12, 2010.
- ❖ Worked as an **Associate Professor** in the Department of Forensic Science, Punjabi University, Patiala from August 12, 2007 to August 11, 2010.
- ❖ Worked as a **Reader** in the Department of Forensic Science, Punjabi University, Patiala from 12-08-04 to 11-08-2007.
- ❖ Worked as a **Lecturer (Senior Scale)** in the Department of Forensic Science, Punjabi University, Patiala from August 12, 1999 to August 11, 2004.
- ❖ Worked as a **Lecturer** in the Department of Forensic Science, Punjabi University, Patiala from August 11, 1995 (A.N.) to August 11, 1999.

FIELD EXPERIENCE:

- ❖ Worked as Scientist Incharge, **Field/Mobile laboratory Unit, Bulandshahr District of Forensic Science Laboratory, U.P., Lucknow** from May 13, 1991 to August 10, 1995. During this service, major responsibility was to visit the *scene of heinous crimes (CSI)* committed in the district Bulandshahr (Uttar Pradesh state) and help the police in conducting scientific investigation of crime.

ORGANISATIONAL SKILL

- ❖ As HOD and the Chairman of the symposium organized an “***International Symposium on advances in Fingerprint Identification***” at Department of Forensic science, Punjabi University, Patiala from **February 8-10, 2008**.
- ❖ As HOD and the Chairman of the symposium Organized an” ***International Symposium on Emerging Trends in Forensic Science***” at Department of Forensic Science, Punjabi University, Patiala from **February 22-24, 2010**.
- ❖ As HOD and Chairman, Organized Three Days Course on ***Cyber and Computer Crime Investigation*** for Gazetted Police Officers at Department of Forensic Science, Punjabi University, Patiala from **July 24-26, 2010**
- ❖ As an Organizing Secretary Organized an ***International Symposium on Emerging Paradigms in Forensic Science***” at Department of Forensic Science, Punjabi University, Patiala from **March 7-9, 2013**.
- ❖ Organized as a member of organizing committee an **International Conference on Questioned Document Examination** at Department of Forensic Science, Punjabi University, Patiala from **Jan 10-12, 2015**.
- ❖ Invited as an expert at the ‘**Scientific Investigation in Forensics**’ to deliver invited talk and conducted field training session, organized by the University institute of Bio and Pharma Sciences, Chandigarh University, Gharuan, Mohali, Punjab, India.
- ❖ Conducted a one-day workshop ‘**Role of Forensic Science in Administration of Justice**’ as a resource person organized by the department of Law, Punjabi University, Patiala on 02-03-2017.

MAJOR CONTRIBUTIONS

1. Contributed one chapter to U.K’s **JOHN WILEY’S ENCYCLOPEDIA of FORENSIC SCIENCE** (*Available both On-line and Physical form*), on “**DIATOMS**,” which have been published by **John Wiley & Sons Ltd. (U.K.)**.

2. Thakar MK, Joshi B, Shrivastava P. (2020) Usefulness of Mini-STRs in analyzing degraded DNA samples and their forensic relevance, Published in Shrivastava, P., Dash, H.R., Lorente, J.A., Imam, J. (Eds.), **Forensic DNA typing: Principles, Applications and Advancements**, by Springer pp205-222 doi 10.1007/978-981-15-6655-4.
3. Thakar MK and Sharma (2020) The Utility of DNA Barcoding Technology in the Authentication of Medicinal Plants in Illegal Trade: A Critical Review, published in Shrivastava, P., Dash, H.R., Lorente, J.A., Imam, J. (Eds.), **Forensic DNA typing: Principles, Applications and Advancements**, by Springer, pp405-429 10.1007/978-981-15-6655-4_21.
4. Member of Expert Panel/Group conducting Interviews, Paper settings of the central and States Public Service Commissions, and many central and States Universities.
5. Member of Boards of Studies responsible for Curriculum designing, Paper settings and selection committees at the Central, States Universities.

Contribution to E-PG Pathshala Project and Academic Advisory committee of the MHRD

- Contributed as a **Paper Coordinator** (in a Paper entitled **General Forensic Science** for the subject of **Forensic Science**), **Reviewer and Content writer** (28 modules) under the *e-PG Pathshala Project by UGC under the NMEICT mission of MHRD, Govt. of India*
- *As a Content writer, I have written 28 modules under the e-PG Pathshala Project by UGC under the NMEICT mission of MHRD, Govt. of India*
- Member of **Academic Advisory committee of the MHRD, Govt. of India** as a **subject expert** in the **subject Law and Legal Studies**.

BOOK REVIEWED (Ministry of Information & Broadcasting, Government of India)

Reviewed the manuscript entitled **Indian Civilization and the Science of Fingerprinting**, **Published, which was offered by the Publication Division, Ministry of Information & Broadcasting, Government of India**, New Delhi – 110003 (*vide* Letter no. 1/64/2010 –Ed dated 18-07-2011).

SESSION CHAIRED/KEYNOTE SPEAKER

- Chaired a session during **2nd International Conference on Recent Advances in Forensic Sciences, Forensic Medicine & Toxicology** Organized by Indian Association of Medico-Legal Expert (Regd) India from Feb. 20-21, 2011.

- Chaired a session during **International Conference on Environment, Genes, Health and Disease -2011** organized by Human Molecular Genetics Laboratory, Department of Zoology, Bharathiar University, Coimbatore, Tamil Nadu, India from Nov. 9-11, 2011.
- Chaired a session on ‘Culture Conflict and Victimization of Groups’, during **Second International Conference of the South Asian Society of Criminology and Victimology to be held at Manonmaniam Sundarnar University, Abhishekapatti Tirunelveli, Kanyakumari, (T.N.) from 11-13 January, 2013.**
- Presented a Keynote Address and chaired a technical session at National Workshop on Cyber Forensic & Criminal Investigation organized by **Dr. APJ Abdul Kalam Institute of Science & Criminology, Bundhelkhand University, Jhansi, UP, India** from 22-24 February 2018.
- Chaired a session during **National Seminar of Forensic Science: The Art of Decoding Crime** organized by Kerala Law Academy Law College & Centre for Advanced Legal Studies and Research, at Thiruvananthapuram, Kerala, India on 29th July, 2016.
- Chaired a technical session during **National Conference on Future Perspectives of Forensic Science in India - 2017** organized by Dr. Abdul Kalam Institute of Forensic Science and Criminology, Bundhelkhand University, Jhansi (U.P.) India from March 9-10, 2017.
- Chaired a Scientific session on **Personal Identification& Emerging Bottlenecks** during **National Conference on Forensic Science at the Service of Mankind - 2017** organized by Department of Anthropology, Lucknow University, Lucknow (U.P.) India from March 23-24, 2017.
- Chaired a session during 1st **National Forensic Science Conclave on ‘Role of Universities in Nurturing the Discipline’** organized by Forensic Science Section, Department of Anthropology, University of Delhi, Delhi on February 10, 2018.
- Presented a Keynote address and chaired a technical session in a seven day **National Workshop on "Biometrics and Bone Identification"** organized by Department of Anthropology, University of Lucknow, from 27th Jan to 2nd Feb 2018.
- Chaired two technical sessions at **International Conference in Forensic DNA Technology** organized by **Dr. APJ Abdul Kalam Institute of Science & Criminology, Bundhelkhand University, Jhansi, UP, India** from 22-24 February 2018.
- Chaired two technical sessions at **International Conference in Forensic DNA Technology** organised by **Dr. APJ Abdul Kalam Institute of Science & Criminology, Bundhelkhand University, Jhansi, UP, India** from 22-24 February, 2019.
- Chaired a Technical session at **2nd International eConference on DNA Forensics**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on February 27-28, 2021.

- Chaired a session at **9th International eConference on Forensic Chemistry & Toxicology**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on September 29-30, 2021.

OTHER ACADEMIC ACHEIVEMENTS

- Member of selection committees (for Junior Scientific officers to Director Level); setting of question papers (for national level and other competitive exams); moderator of question papers; reviewer and evaluator for States and Central Public Service Commissions.
- Member of selection committees as an expert and Vice Chancellor Nominee; Member of P.G. board of studies and Research; examiner and evaluator of Ph.D. thesis; Paper setter and evaluator for many states and central universities.
- Acted as Observer and Center Superintendent at various National and State level tests.
- Member of many organizing committees in different capacities.
- Member of many Seminar/symposium/conference Advisory and organizing committee in different capacities.
- Member of **Scientific Committee of 2nd International eConference on DNA Forensics**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on February 27-28, 2021.
- Member of **Scientific Committee of 3rd International eConference on Document Examination** organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on March 27-28, 2021.
- Member of **Scientific Committee of 4th International eConference on Fingerprint Analysis**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on April 24-25, 2021.
- Member of **Scientific Committee of 5th International eConference on Forensic Odontology**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on May 29-30, 2021.
- Member of **Scientific Committee of 7th International eConference on Forensic Psychology**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on July 24-25, 2021.
- Member of **Scientific Committee of 8th International eConference on Forensic Medicine and Toxicology**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on August 28-29, 2021.
- Member of **Scientific Committee of 9th International eConference on Forensic Chemistry & Toxicology**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on September 29-30, 2021.

- Member of **Scientific Committee** of **10th International eConference on Crime Scene Investigation**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on October 30-31, 2021.
- Member of **Scientific Committee** of **11th International eConference on Cyber Security**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on November 27-28, 2021.
- Member of **Scientific Committee** of **12th International eConference on Forensic Physics**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on December 10-11, 2021.

RESEARCH EXPERIENCE

- ❖ Worked as a Junior and Senior Research Fellow in the University Grants Commission, New Delhi sponsored major Research Project entitled “**Determination of Sex, Site, Species Origin, ABO Blood Groups and Protein Pattern from hair and elemental Composition**” in the Department of the Forensic Science, Punjabi University, Patiala from March 28, 1988 to March 27, 1991.

Ph.D. Students completed/pursuing Degree under my Guidance (Details):

S. No.	Name of the Student	Title of Thesis	Status
1.	Rajinder Singh	<i>Hair characterization of Schedule-I Felids of Indian Wildlife Protection Act (1972) using morphometric, protein and DNA techniques: Implications in Wildlife Forensics</i>	Degree Awarded In active Collaboration with Wildlife Institute of India, Dehradun (U.K.)
2.	Vivek SehajPal	<i>Forensic hair characterization of Artiodactyls under Schedule-I of Indian Wildlife (Protection) Act-1972 using morphometric, protein and DNA techniques</i>	Degree Awarded In active Collaboration with Wildlife Institute of India, Dehradun (U.K.)
3.	Rajwinder Singh UGC-SRF	<i>Forensic Characterization of Diatoms from various water bodies of Punjab</i>	Degree Awarded

4.	Subrat Chaudhary DFSS-SRF	<i>Study of audio and video tape alteration and development of detection technique</i>	Degree Awarded in active Collaboration with Central Forensic Science Laboratory, Chandigarh
5.	Haroon Naem Khan	<i>Identification From Edgescopy and Poroscopy in The Examination of Partial Fingerprints And Their Significance in Crime Investigation</i>	Degree Awarded
6.	Aman Deep Kaur	<i>Study on Sound Patterns of Gunshots for Characterization of Small Firearms and Creation of Data Bank for Forensic Interpretations.</i>	Degree Awarded in active Collaboration with Central Forensic Science Laboratory, Chandigarh
7	Renu Devi UGC-SRF	<i>Reconstruction of Bone Length from Bone Fragments</i>	Degree Awarded in active Collaboration with Department of Anthropology, Delhi University, Delhi
8	Tina UGC BSR fellowship	<i>Forensic Identification of Medicinal Plants in Trade</i>	Degree Awarded UGC-BSR Fellowship Thesis submitted
9	Deepali Luthra UGC-SRF	<i>Forensic Characterization of Phytoplankton of Selected Water Bodies of Haryana</i>	Degree Awarded (UGC-SRF)
10	Bhawna Joshi UGC-JRF	<i>Forensic DNA analysis of naturally decomposed biological samples using STR and mini-STR markers</i>	Degree Awarded in Collaboration with AIIMS, New Delhi Pre-submission seminar
11	Preeti Guleria	<i>Forensic Characterization of Game</i>	Registered

	UGC-BSR Fellowship	<i>bird feathers mentioned under (Schedule – I) by using Morphometric and Protein Techniques: Implications in Wildlife Forensics</i>	in active Collaboration with Wildlife Institute of India, Dehradun (U.K.) India
12	Jagmeet Kaur	Forensic Studies on Lip Prints	Registered UGC-NET fellowship
13	Lovepreet Kaur UGC BSR fellowship, Completed Course work	Facial Recognition From CCTV Footages Under Different Conditions	Registered UGC BSR fellowship, Completed Course work
14	Amandeep Kaur Bhambra	FORENSIC STUDIES FOR DNA PROFILING ON PAPER SUBSTRATES	Registered Selected for fellowship, Completed Course work
15	Jaswinder Singh	Qualitative and Quantitative Analysis of Fingermarks from Two North Indian Population	Registered as a Teacher Fellow
16	Manisha	Reliability study of Speaker Identification Parameters of Selected Clue Words	Registered in active Collaboration with SFSL, Delhi
17	Staffi Singla	<i>In Process</i>	UGC-NET Completing Course Work

List of Papers/Courses taught at P.G. Level

S. No.	Paper Taught	Class
1.	General Forensic Science	M.Sc. – I (Semester-I)
2	Theory and Practical based on Finger Print Examination	M.Sc.-I (Semester-I)
3.	Theory and Practical based on Criminalistics including Psychological techniques	M.Sc. – I (Semester-II)
5.	Criminalistics	M.Sc.-I (Semester-II)
4.	Theory and Practical based on Forensic	M.Sc. – II

	Biology and Serology including Anthropology	(Semester-III)
6.	Theory – Advance Forensic Serology including DNA Forensics. Practical based on Forensic Biology and Serology Practical based on Forensic Anthropology	M.Sc. – II (Semester-IV)
6	Practical based on Forensic Biology and Serology	M.Sc. – II (Semester-III)
7.	Special Report Related to Various specializations	M.Sc. – II (Semester-IV)

PROFESSIONAL WORKSHOP/TRAINING COURSES ATTENDED

- ◆ Attended workshop on **DNA Finger Printing and its Applications** at Guru Nanak Dev University, Amritsar (Pb.) India from February 04-24, 1998.
- ◆ Attended the **University Grants Commission sponsored Refresher Course on Criminology and Forensic Science** organized by the Department of Forensic Science, Punjabi University, Patiala from March 1-22, 1999.
- ◆ Attended **University Grants Commission, New Delhi, sponsored Refresher Course on Criminology and Forensic Science** organized by Academic Staff College, Jamia Millia Islamia, New Delhi from June 10 to July 07, 1999.
- ◆ Attended **IVth Patnet Awareness Workshop** organized by Punjab State Council for Science & Technology, Chandigarh, India on November 9, 1999.
- ◆ Attended workshop on **Control of Illegal Wild Life Trade in India** at Wild Life Institute of Inida, Dehradoon, India from February 23-25, 2000.
- ◆ Attended the **University Grants Commission, New Delhi sponsored Refresher Course in Criminology and Forensic Science** organized by the Department of Forensic Science, Punjabi University, Patiala from December 11-31, 2001.
- ◆ Attended training course on **Legal Issues in Wildlife Management** at the Wildlife Institute of India, Dehradoon, India from January 21-25, 2002.
- ◆ Attended the **University Grants Commission, New Delhi sponsored Refresher Course on Forensic Science** organized by the Department of Forensic Science, Punjabi University, Patiala from January 11-31, 2003.

TRAINING RECEIVED

- ◆ Received Training in Physics division of **Indian Statistical Institute**, Calcutta ‘To determine elasticity from Hair’ for one and half months (Thrice for two weeks each) during the period of 1990-1991 on identification from hair.
- ◆ Received training in “Scientific Investigation of Crime Scene” at **Forensic Science Laboratory, U.P.**, Lucknow, India from May 16, 1991 to August 24, 1991.
- ◆ Received training in analysis of Explosive at **Forensic Science Laboratory, U.P.**, Agra, India from October 4, 1993 to October 10, 1993 and from October 15, 1993 to October 19, 1993.

Lectures/ Keynote Address/ Invited Lecture Delivered:

- I have been invited very frequently to deliver number of lectures on ‘**Crime Scene Management / Trafficking of women and children/ International Adoption/ Crime Scene Investigation/ Brain Finger Printing /Narco Analysis / Lie Detector/ Chelioscopy/ Technological Advances in Forensic Science** to G.O.s; N.G.O.s, of police and Scientific staff at Maharaja Ranjit Singh Punjab Police Academy, Phillaur (2001-2016).
- I have been invited to deliver lectures on ‘**Crime Scene Management and Role of DNA in Criminal Investigation**’ to **PCS (Judicial) officers; Session Judges** at Maharaja Ranjit Singh Punjab Police Academy, Phillaur on Sept. 26, 2012, Dec. 4, 2012, and 28-06-2016.
- Delivered a lecture to the Police Investigating officer (I.Os.) on ‘Hairs/Fibers/Forensic Photography in relation to crime scene investigation’ at Department of Forensic Medicine & Toxicology, Govt. Medical College, Patiala on 8th March, 2005.
- I have been invited to deliver lecture to **Police and Judicial officers** at Training Programme and Workshop for Police and Judicial officers organized by Institute of Forensic Science, Bundhelkhand University, Jhansi from 4-5th March, 2006.
- I have been invited to deliver lectures (including practical demonstrations) on ‘*Determination of sex, Blood Groups and Enzyme Types from Hairs and stains of Semen and Vaginal Fluid*’ at ‘Workshop on Forensic Investigation of rape cases’ organized by **Amity Institute of Advanced Forensic science Research and Training** at Noida from October 4-6, 2006.
- I have been invited to deliver lectures on **Wildlife Forensics** on Forensic Day celebration at **Amity Institute of Forensic Sciences** at Amity University Campus, sector 125, Noida on March 17, 2011.
- I have been invited to deliver lectures on **Wildlife Forensics** to Pot Graduate students at **LNJP National Institute of Criminology and Forensic Sciences, Rohini, Delhi** 2014.

- I have been invited to deliver lectures on *various aspects of Forensics* at Chandigarh University, Gharuan, near Chandigarh, Punjab.
- I have been invited frequently to deliver lectures to **Police (of various states); judicial officers and officers of vigilance Bureau** at their Training Programme organized by M.R.S. Punjab Police Academy, Phillaur.
- Delivered an invited talk at the seminar on **Scientific Investigation in Forensics** organized by the **University Institute of Bio and Pharma Sciences, Chandigarh University, Gharuan, Punjab** on 09-02-2015. I have conducted a counseling session for PG students.
- Delivered a Keynote Speaker **National Workshop on Cyber Forensic & Criminal Investigation** organized by Institute of Forensic Science and Criminology, Bundhelkhand University, Jhansi (U.P.) India from March 23, 2015.
- Delivered a series of lectures on Forensic Science at **Department of Anthropology, Panjab University, Chandigarh, 2016.**
- Delivered two Extension lectures in the **Department of Genetics (Forensic Science Unit), Maharishi Dayanand University, Rohtak on January 20, 2017.**
- I have been invited to deliver lecture in UGC sponsored **National Workshop on Chemistry-Biology Interface: Opportunities and Challenges** organized by Department of Chemistry and Life Sciences, S.D, College (Lahore), Ambala Cantt on 12th March, 2016.
- I have been invited to deliver lecture in **National Seminar of Forensic Science: The Art of Decoding Crime** organized by Kerala Law Academy Law College & Centre for Advanced Legal Studies and Research, at Thiruvananthapuram, Kerala, India on 29th July, 2016.
- Delivered a Lecture as a Resource Person on the topic “**Scientific Aids to Investigation and collection of evidence from scene of crime**” at **Chandigarh Judicial Academy** to Additional District and Sessions Judge under training on 24.10.2016.
- Delivered a lecture at **Asian Institute, Patiala**
- Delivered a lecture as Key Speaker on **Role of Botanical Evidences in the investigation of crime** at **National Conference on Forensic Science at the Service of Mankind - 2017** organized by Department of Anthropology, Lucknow University, Lucknow (U.P.) India from March 23-24, 2017.
- Presented Invited Talk at **International Conference in Forensic DNA Technology** organized by **Dr. APJ Abdul Kalam Institute of Science & Criminology, Bundhelkhand University, Jhansi, UP, India** from 22-24 February, 2018
- Presented ‘FORENSICON 2019’ A **National Conference on “Challenges & Innovations in Criminal Justice System”** organized by Dr. Abdul

Kalam Institute of Forensic Science and Criminology, Bundhelkhand University, Jhansi (U.P.) India from February 21-22, 2019.

PROFESSIONAL ASSOCIATION

- ❖ Life Member of Indian Academy of Forensic Sciences.
- ❖ Life Member of Indian Academy of Forensic Medicines
- ❖ Annual Member of the Indian Society of Toxicology

RESEARCH PUBLICATIONS

1. **Mukesh Kumar** and Chattopadhyay P.K. (1987) Determination of Secretor Status from Saliva Stains of Paan Chewing Individuals, Ind. J. Phys. Anthropol. and Hum Genet. 13(3): 233-235.
2. **Mukesh Kumar**, Chahal, K. and Chattopadhyay P.K. (1989) Inheritance of Medulla Types, Proc. 3rd Indo Pacific Congress on Legal Medicine and Forensic Science, Madras, Sept. 8-12: 168-169.
3. **Mukesh Kumar** (1989) Personal Identification from Dermal Patterns, Proc. National Meeting of Young Scientist and Research Fellow. Punjabi University, Patiala.
4. **Mukesh Kumar** and Chattopadhyay P.K.(1990) ABO Blood Groups from Hair, Proc. The First International Symposium on Advance in Legal Medicine, KANAZAWA, JAPAN, 411-414.
5. **Mukesh Kumar** and Chattopadhyay P.K.(1991)Scale Pattern of Hair – A Study from Various Sites of the Human Body, J. Forensic Medicine, 13(2): 37-38.
6. **Mukesh Kumar** and Chattopadhyay P.K.(1997):Determination of Sex and Enzymes Types from single Hair Root Sheath, Indian Academy of Forensic Medicine, 19(1-3): 10-15.
7. Gurmeet Kaur and **Mukesh Kumar** (2000) Medulla Types of Hair – A Study of Brahmin and Rajputs of the Punjab, J. Human Ecology, Delhi, 11(6): 483-486.
8. **Thakar, M.K.** (2001) Forensic Examination of Hair, Biospectrum, 3 (1, 2): 42-43.
9. Sharma, R., **Thakar, M.K.** and Jasuja, O.P. (2002) Twins Hair – A study of some morphological features, J. Human Ecology, Delhi, 13 (5): 407-410.
10. Singh, R. **Thakar, M.K. and Kumar, L.A.** (2002) Identification of Nitrites in the Gunshot Residue (GSR) – Sensitivity of Greiss and Modified Greiss Reagents: A Comparative Study, The Indian Journal of Criminology & Criminalistics, XXIII (3): 223-233.

11. Singh, R.; Kaur, J. and **Thakar, M.K.** (2003): Detection of argemone oil in the adulterated mustard oil by using colour tests and Thin Layer chromatography, **Anil Aggarwal's Internet Journal of Forensic Medicine and Toxicology**, 5(2).
12. Goyal, P.; Sahajpal, V.; Singh, R; Goyal S.P. and **Thakar, M.K.** (2005): Electrophoretic Differentiation of Protected Species based on their Sarcoplasmic Protein Profiles, **Turkish Journal of Forensic Sciences**, 4(3): 23-29.
13. Singh, R.; Singh, R. and **Thakar, M.K.** (2005): Drowning Associated Diatoms, **Indian Internet Journal of Forensic Medicine & Toxicology**, 3(3).
14. **Singh, R.; Singh, R.;** Kumar, S. and **Thakar, M.K.** (2006) Forensic Analysis of Diatoms- A Review. **Anil Aggrawal's Internet Journal of Forensic Medicine and Toxicology**, 2006; Vol. 7 (2).www.geradts.com/~anil.
15. Singh, R., Singh, R. and **Thakar, M.K.** Extraction methods of diatoms-a review, **Indian Internet Journal of Forensic Medicine and Toxicology** (2006a). 4(2).
16. Singh, R., Singh, R., Singh, R. and **Thakar, M.K.:** Diatomological studies from three water bodies of Jaipur, **Indian Internet Journal of Forensic Medicine and Toxicology** (2006b).4, 3 (Print ISSN: 0973–1970).
17. Singh, R.; Singh, R.; Suman, S. and **Thakar, M.K.** (2006) Thin Layer Chromatographic analysis of some commonly used poisonous seeds. **The Journal of the Indian Society of Toxicology**, 2 (2):33-35
18. Singla, A.K. and **Thakar, M.K.** (2006): Establishing the Sequence of Intersecting Ballpoint Pen and Felt –Tipped Marker Strokes, **Journal of Forensic Identification**, 56(3): 386.
19. Choudhary, S.K., Singh, C.P. and **Thakar, M.K.,** (2007): Extended study of Pitch shifted Speech by preserving Tempo: An External Study has been published in **The Internet Journal of Forensic Science**, 2(1).
20. Toofany, M.A., Chandel, R.S. and **Thakar, M.K.,** (2007): A study on the diatom flora of various seas of Mauritius **proceedings of XVIII All India Forensic Science Conference** 2007, Kolkata.
21. **Thakar, M.K.;** Singh, R.; Singh, R.; Shelja and Kumar, A., (2007): Forensic Analysis of Some Lip Cosmetics. **Journal of Forensic Identification**, 57(5), 697-703.
22. Chandel, R.S.; **Thakar, M.K.;** Goyal, S.P. and Sahajpal, V. (2008) **Forensic Hair Characterization of Six Endangered Felid Species of India.** **Journal of Forensic Identification**, 58(3):317-330.
23. Vivek Sahajpal, S.P. Goyal, **M.K. Thakar,** R. Jayapal and Yoganand, K. (2008): **Hair Characteristics of four Indian bear species** has been published in **Journal of Science & Justice**, 48: 8-15.
24. Vivek Sehajpal, Nasreen Jeelani, S.P. Goyal and **M.K. Thakar** (2008): **Electrophoretic Characterization of some Protected Mammal, Reptile and Avian Species through Sarcoplasmic Protein Profiles,** has been published in **Turkish Journal of Forensic Sciences**, 7(2): 17-25

25. **Thakar, M.K.** and Singh, R. A (2008): A Chapter on '**Diatom**' has been published in *John Wiley Encyclopedia of Forensic Science, U.K.(fsa625b)-Chapter*
26. **M. K. Thakar**, Sandeep Singh Sahota, Rajvinder Singh (2009): Death due to drowning in Punjab-A survey [2005-2006] has been published in **Medico-Legal Update**, 9(1): 18-22.
27. Vivek Sahajpal, S.P. Goyal, **M.K. Thakar**, and R. Jayapal, (2009): Microscopic hair characteristics of a few bovid species listed under Schedule-I of Wildlife (Protection) Act 1972 of India, **Forensic Science International**, 189: 34–45.
28. **M.K. Thakar**, M.K. Kular and Rajvinder Singh (2010): A study of Sexual Offences in Punjab has been published in **Medico-Legal Update - An International Journal**, 10(2): 45-47.
29. **M.K. Thakar**, M.K. Kular and R. Singh (2010): A study of Sexual Offences in Punjab has been published in **Medico-Legal Update -an International Journal**, 10(2): 45-47.
30. **M. K. Thakar** and Rajvinder Singh (2010): Diatomological mapping of water bodies for the diagnosis of drowning cases **Journal of Forensic and Legal Medicine** 17: 18–25
31. **Thakar, M.K.** and Singh, R. (2010): Diatomological mapping of Water Bodies for the Diagnosis of Drowning cases. **Journal of Forensic and Legal Medicine** 17:18-25.
32. Ghosh,T.; Kalpana, D.; Mukherjee,S.; Sharma,A.K.; Nath,S.; Rathod, V.R.; **Thakar, M.K.** and Jha, G.N. (2011): *Genetic Diversity of Autosomal STRs in eleven Populations of India*, **Forensic Science International: Genetic**, 5: 259-261.
33. **Thakar, M.K.**, Luthra, D. and Singh, R. (2011): A Floristic Survey Of Diatom Distribution Patterns In Some Small Water Bodies (Lakes And Sarovars), **Journal of Punjab Academy of Forensic Medicine & Toxicology**, 11(2): 81-86.
34. **M. K. Thakar and Priyanka Kapoor** (2012): Forensic Examination of Bite Marks Present on Different Surfaces has been published in **Anil Aggrawal's Internet Journal of Forensic Medicine and Toxicology**.
(http://www.anilaggrawal.com/ij/vol_014_no_001/main.html)
35. **Thakar, M.K.; Khan, H.N. and Kaur, P.** (2013): Identification of Authorship Using Lateral Palm Prints By Studying Third Level Details, **Anil Aggrawal's Internet Journal of Forensic Medicine and Toxicology**, Vol. 14(1), January - June 2013.
36. **Thakar, M. K.** (2013): Cellphone as a Tool for combating Cyber Crime, Proc. Of National Conference on Law and Justice-2013, organized by School of Law, Auro University, Surat, Gujrat from 14-15th Sept. 2013, PP 479-486.
37. Aman Deep Kaur, S. K. Jain and **M. K. Thakar (2014): Classification and Identification of Firearms through Gunshot Sounds using Different Techniques – A Statistical Significance** has been Published in *CBI Bulletin, vol. XXI, Nos. 10-12: PP 22-32 (Oct-Dec, 2013)*
38. Devi R., **Thakar M.K.** and Nath S. (2014): **Estimation of Humeral Length from its Fragmentary Dimensions** has been published in *Human Biology Review* (ISSN 2277 4424) 3 (1): 15-24.

39. **Thakar MK** and Guleria P. (2015): Tracking Drowning Trends in Himachal Pradesh during 2006-2010. Anil Aggrawal's Internet Journal of Forensic Medicine and Toxicology [serial online], 2015; Vol. 16, No. 1 (Jan - June 2015): [about 12 p]. (ISSN 0972-8074) (http://anilaggrawal.com/ij/vol_016_no_001/papers/paper004.html). Published as Epub Ahead: Sep 27, 2014)
40. **Thakar, M.K.** Tina Sharma (2016): Digital grid method for fingerprint identification and objective report writing has been published in Springer Nature's **Egyptian J. Forensic Science**, <http://dx.doi.org/10.1016/j.ejfs.2016.05.008>., 6:194-201 (ISSN 2090-5939).
41. **Thakar, M.K.**, Sharma, T. and Sahajpal, V. (2017): **Illegal trade of Medicinal Plants approaching Wildlife Forensics: Indian Scenario** has been published in **The Indian Police Journal**, 64(1): 130-139, (ISSN 0537-2429).
42. **Thakar, M.K.**, Kaur, P. and Sharma, T., (2018): **Validation studies on Gender determination from Fingerprints with Special emphasis on ridge Characteristics** has been published in Springer Nature's **Egypt J Forensic Sci (2018) 8: 20**. (ISSN 2090-5939). <https://doi.org/10.1186/s41935-018-0049-7>
43. **Thakar, M.K.**, Luthra, D., Khattar, J.S., (2018): **Forensic Studies of Phytoplankton Ecology of two Water Bodies of Kurukshetra Area of Haryana State in India** has been published in the Springer Nature's **Egyptian J. Forensic Science**, 8(38):1-15 (ISSN 2090-5939).
44. **Thakar, M.K.**, Luthra, D. and Khattar, J.S. (2018): **Developing Paradigms of Drowning Deaths in the State of Haryana, India**, The Indian Police Journal, Oct-Dec, 2018, 65(4):48-57 (ISSN 0537-2429).
45. Sharma T and **Thakar M.K.** (2018): **Evaluation of DNA Barcoding methodology and substitution prevailing in "Sandlewood" herbal trade market**, Journal of Forensic Medicine and Toxicology, 35(2):37-4
46. **Thakar, M.K.**, Joshi, B., Shrivastava, P., Raina, A., and Lalwani, S. (2019): **An assessment of preserved DNA in decomposed biological materials by using forensic DNA profiling**, has been published in Springer Nature's **Egyptian Journal of Forensic Sciences**, **9:46**, ISSN: 2090-5939 (Online), (<https://doi.org/10.1186/s41935-019-0151-5>).
47. Sharma, T and **Thakar, M.K.** (2019): **Microwave Assisted Extraction of Biological Components of *Crocus Sativus* with DNA Barcoding Technology** has been published in

the **International Journal of Pharmaceutical Sciences and Research (IJPSR)**, Vol. 10(7): 3482-3486. (E-ISSN: 0975-8232; P-ISSN: 2320-5148).

48. Sahajpal, V., Rajput, S., Sharma, T., Sharma, A., and **Thakar, M.K.**, (2019): **Development and evaluation of a novel DNA purification buffer and protocol for blood samples on FTA cards**, has been published in **Forensic Science International: Reports**, <https://doi.org/10.1016/j.fsir.2019.100014>
49. Bhambara, A. K., and **Thakar, M. K.** (2019). Role of Dorsal Surface of Tongue in Personal Identification: A Review. *Asian Man (The)-An International Journal*, 13(2), 145-149.
50. **Thakar MK**, Sharma T. (2020): **The Utility of DNA Barcoding Technology in the Authentication of Medicinal Plants in Illegal Trade: A Critical Review** has been Published in *Forensic DNA Typing: Principles, Applications and Advancements*, 405-29.
51. **Thakar, M. K.**, Sahajpal, V., Bhambara, A. K., Bhandari, D., and Sharma, A. (2020). **DNA profiling of saliva traces habitually deposited on various documents: a pilot study.** *Egyptian Journal of Forensic Sciences*, 10(1), 1-3.
52. Kaur, J., and **Thakar, M.K.** (2021): **An alternate novel approach to classify lip prints.** *Egypt J Forensic Sci* 11, 40. <https://doi.org/10.1186/s41935-021-00251-5>
53. **Thakar MK** and Sharma T. (2021): **Identification of CITES-Listed *Euphorbia royleana* through DNA Barcoding Technology: A New Facet in Wildlife Forensics** has been published in *Arab Journal of Forensic Sciences & Forensic Medicine*. 2021 Dec 28;3(2):260-72.
54. Kumari V, **Thakar MK**, Mondal B and Pal SK (2021): Effects of oils, lotions, hand sanitizers, and mehendi on fingerprints captured through digital fingerprint scanner, has been published in Springer Nature's **Egyptian Journal of Forensic Sciences**, 8:11, ISSN: 2090-5939 (Online), (<https://doi.org/10.1186/s41935-021-00222-w>).
55. Kaur, J., and **Thakar, M.K.** (2022): **New Individual Features in Lip Prints - A Potential Support For Personal Identification**, *Canadian Society Of Forensic Sci* 11, 40. <https://doi.org/10.1080/00085030.2022.2062828>.
56. [Sahajpal V, Bhambara AK, Thakar MK, Sharma S, Bhandari D, Thakur M, Singh A, Devi N, Kumar A](https://yhrd.org/YA005019), contributed **170 haplotypes on July 5, 2021 belonging to Ramgharia population at YHRD filed under accession number YA005019.** <https://yhrd.org/YA005019>
57. *The following are the links for the DNA sequences of Animals (Species Specific) which have been released by NCBI/ GenBank (America):*

During 2007-08 (Animals):

*[EU362126](#) Panthera uncial uncial, Cytochrome b gene, partial sequence, Mitochondria

*[EU362125](#) Felis chaus, Cytochrome b gene, partial sequence, Mitochondria

*[EU362124](#) Panthera pardus, Cytochrome b gene, partial sequence, Mitochondria

*[EU362123](#) Panthera tigris tigris, Cytochrome b gene, partial sequence, Mitochondria.

During 2008-09 (Animals):

<http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucore&id=185178688>

<http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucore&id=185178687>

<http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucore&id=185178689>

<http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucore&id=185178690>

<http://www.ncbi.nlm.nih.gov/entrez/viewer.fcgi?db=nucore&id=185178691>

During 2017 (Plant):

Sharma, T., Sahajpal, V. and Thakar, M.K. (2017): *Achyranthes aspera* internal transcribed spacer 1, partial sequence; 5.8S ribosomal RNA gene, complete sequence; and internal transcribed spacer 2, partial sequence, NCBI GenBank: KY780481.1 by Sharma, T., Sahajpal, V. and Thakar, M.K., TITLE Direct Submission, JOURNAL Submitted (16-MAR-2017) DNA Division, State Forensic Science Laboratory, P.O. Junga, Junga, Himachal Pradesh 171218, India (<https://www.ncbi.nlm.nih.gov/nucore/KY780481.1>).

The following GenBank accession numbers have been allotted for plant nucleotide sequences submitted:

- BankIt2139217 FIMPT-AA2-RBCL MH765667
- BankIt2139219 FIMPT-AA3-RBCL MH765668
- BankIt2139226 FIMPT-AZ2-RBCL MH765669
- BankIt2139227 FIMPT-AZ3-RBCL MH765670
- BankIt2139256 FIMPT-BK2-RBCL MH765671
- BankIt2139258 FIMPT-BK3-rbcl MH765672
- BankIt2139267 FIMPT-ER2-RBCL MH765673
- BankIt2139268 FIMPT-ER3-RBCL MH765674
- BankIt2139272 FIMPT-FK2-RBCL MH765675
- BankIt2139274 FIMPT-FK3-RBCL MH765676
- BankIt2139289 FIMPT-MI2-RBCL MH765677
- BankIt2139290 FIMPT-MI3-RBCL MH765678
- BankIt2139294 FIMPT-PR2-RBCL MH765679
- BankIt2139295 FIMPT-PR3-RBCL MH765680
- BankIt2139308 FIMPT-EG2-RBCL MH765681
- BankIt2139314 FIMPT-EG3-RBCL MH765682
- BankIt2139329 FIMPT-AR2-RBCL MH765683
- BankIt2139343 FIMPT-AR3-RBCL MH765684
- BankIt2139360 FIMPT-CT2-RBCL MH765685
- BankIt2139364 FIMPT-CT3-RBCL MH765686
- BankIt2139386 FIMPT-TC2-RBCL MH765687
- BankIt2139389 FIMPT-TC3-RBCL MH765688
- BankIt2139397 FIMPT-SA2-RBCL MH765689
- BankIt2139399 FIMPT-SA3-RBCL MH765690
- BankIt2139400 FIMPT-SA2-ITS MH765691

Communicated Research Papers:

1. **Thakar M.K., Sharma T., Sahajpal V. "Assessment of Possibilities and challenges to generate STR profile from Questioned Documents."** Communicated to *Forensic Science international genetics*.
2. **Thakar M.K., Sharma T. "Does DNA barcoding pertinent to investigate illegal trade of medicinal plants? Forensic Science international genetics, Communicated.**
3. **Thakar M.K., Sharma T. Threatened fauna of Punjab forest area: A legal aspect has been communicated to Indian police journal.**
4. **Thakral R., Sahajpal V., Thakar M.K., Sharma T "STR profiling from one month old samples of Touch DNA."** Communicated to *Egyptian Journal of Forensic Science*.

CONFERENCES AND SYMPOSIA ATTENDED

International

- 1) Third Indo-Pacific Congress on legal Medicine and Forensic Sciences held at Madras, India from September 8-12, 1989.
- 2) International Symposium on Forensic Science held at Punjabi University, Patiala, India from March 5-7, 1990.
- 3) The Ist National Congress on Forensic Medicine and Sciences organized by Department of Forensic Medicine, Dhaka Medical College, Dhaka, Bangladesh from November, 4-6, 1993.
- 4) SAARC Workshop on Forensic Science organized by Department of Forensic Science, Punjabi University, Patiala, India from October, 4-7, 1995.
- 5) Attended International Symposium on Forensic Science at Punjabi University, Patiala, India, February 13-14, 2002.
- 6) International Symposium on Forensic Science organized by *Amity Institute of Advanced Forensic science Research and Training* at Amity University campus, Noida, Uttar Pradesh from February 22-24, 2006.
- 7) Organized and participated in an **International Symposium on Advances in Fingerprint Identification**, Department of Forensic science, Punjabi University, Patiala from February 8-10, 2008.
- 8) Organized and participated in an International Symposium on Emerging Trends in Forensic Science at Department of Forensic science, Punjabi University, Patiala from February 22-24, 2010.
- 9) 2nd International Conference on Recent Advances in Forensic Sciences, Forensic Medicine & Toxicology organized by Indian Association of Medico-Legal Expert (Regd) India from Feb. 20-21, 2011.

- 10) International Conference on Environment, Genes, Health and Disease -2011 organized by Human Molecular Genetics Laboratory, Department of Zoology, Bharathiar University, Coimbatore, Tamil Nadu, India from Nov. 9-11, 2011.
- 11) 64th Annual Scientific Meeting of **American Academy of Forensic Science** at **Atlanta , Georgia, USA** from February 20-25, 2012
- 12) Second International Conference of the South Asian Society of Criminology and Victimology to be held at Manonmaniam Sundarnar University, Abhishekapatti Tirunelveli, Kanyakumari, (T.N.) from 11-13 January, 2013.
- 13) Attended **International Symposium on Emerging Paradigms in Forensic Science** at Department of Forensic Science, Punjabi University, Patiala from **March 7-9, 2013**.
- 14) Attended **4th International Science Congress (ISC-2014)** at Udaipur, Rajasthan, India, organized by the International Science Congress Association in collaboration with Pacific University, Udaipur, Rajasthan, India from 8-9th December, 2014.
- 15) Attended an **International Conference on Questioned Document Examination** at Department of Forensic Science, Punjabi University, Patiala from **Jan 10-12, 2015**.
- 16) Attended **National Workshop on Cyber Forensic & Criminal Investigation** organized by Institute of Forensic Science and Criminology, Bundhelkhand University, Jhansi (U.P.) India from March 23, 2015.
- 17) Attended **International Finger Print Research Group** at Department of Forensic Science, Punjabi University, Patiala from **Oct 7-9, 2015**.
- 18) Attended **21st Triennial Meeting of International Association of Forensic Sciences (IAFS)** at **Toronto Canada** from **August 21-25, 2017**.
- 19) Attended **International Conference in Forensic DNA Technology** organized by **Dr. APJ Abdul Kalam Institute of Science & Criminology, Bundhelkhand University, Jhansi, UP, India** from 22-24 February, 2018.
- 20) Attended **2nd International eConference on DNA Forensics**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on February 27-28, 2021.
- 21) Attended **3rd International eConference on Document Examination**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on March 27-28, 2021.
- 22) Attended **4th International eConference on Fingerprint Analysis**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on April 24-25, 2021.
- 23) Attended **5th International eConference on Forensic Odontology**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on May 29-30, 2021.

- 24) Attended **7th International eConference on Forensic Psychology**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on July 24-25, 2021.
- 25) Attended **8th International eConference on Forensic Medicine and Toxicology**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on August 28-29, 2021.
- 26) Attended **9th International eConference on Forensic Chemistry & Toxicology**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on September 29-30, 2021.
- 27) Attended **10th International eConference on Crime Scene Investigation**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on October 30-31, 2021.
- 28) Attended **11th International eConference on Cyber Security**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on November 27-28, 2021.
- 29) Attended **12th International eConference on Forensic Physics**, organized by **International Association of Scientists & Researchers (IASR)** New Delhi, India on December 10-11, 2021.

National conferences/workshops:

- 1) Silver Jubilee celebrations of the **Indian Academy of Forensic Science** at Patiala, India from October, 3-6, 1986.
- 2) 10th Annual conference of **Indian Academy of Forensic Medicine** at S.N. Medical College, Agra, India February 4-6, 1988.
- 3) Symposium of **Questioned Documents and Handwriting Examination** at Punjabi University, Patiala, India from April 8-9, 1988.
- 4) XIth Annual conference of the **Indian Academy of Forensic Medicine** at M.K.C.G. Medical College, Berhampur, (Orissa) India from February 2-4, 1989.
- 5) National Meeting of Young Scientists and Research fellow on Impact of Science on Human Welfare at Punjabi University, Patiala, India from January 17-19, 1989.
- 6) XIIth Annual Conference of Indian Academy of Forensic Medicine at Maulana Azad Medical College, Delhi, India from January 19-21st, 1990.
- 7) Conference of Indian Academy of Forensic Sciences at Forensic Science Laboratory, U.P. Lucknow, India from July 6-8, 1991.
- 8) 79th Session of Indian Science Congress, at S.J.S. University, Baroda, India during January 3-8, 1992.

- 9) XIVth Annual conference of Indian Academy of Forensic Medicine, at Medical College, Calcutta, India from January 10-12, 1992.
- 10) 81st Session of Indian Science Congress in Rajasthan University, Jaipur, India from January 3-8, 1994.
- 11) XVth Annual Conference of Indian Academy of Forensic Medicine, Amritsar, India from February 11-13, 1994.
- 12) XVth Annual Conference of Indian Academy of Forensic Medicine at Salem (Tamil Nadu) India in January 27-29, 1995.
- 13) 83rd Session of Indian Science Congress at Punjabi University, Patiala, India from January 3-8, 1996.
- 14) National Symposium on Eco-degradation & Populations Health; "THE CHALLENGES & MANAGEMENT IN NEW MILLENIUM" at Purnia College, Purnia (Bihar) India from April 14-15, 2000.
- 15) XIV All India Forensic Science Conference organized by Bureau of Police Research and Development at Forensic Science Laboratory, Maharashtra, Mumbai from January 6-8, 2003.
- 16) National symposium on Cyber Forensic and Computer crimes organized by Department of Forensic Science, Punjabi University, Patiala from August 11-13, 2006.
- 17) XVIII All India Forensic Science Conference organized by Directorate of Forensic Science, Ministry of Home Affairs, at Kolkata from November 16-18, 2007.
- 18) National Seminar on Emerging Scenario in Forensic Science organized by Institute of Forensic Science and Criminology, Bundhelkhand University, Jhansi from October 23-24, 2009.
- 19) XX All India Forensic Science Conference organized by Directorate of Forensic Science, Ministry of Home Affairs, Govt. of India, New Delhi, Rajasthan Police and State Forensic Science Laboratory, Rajasthan, Jaipur from November 15-17, 2009.
- 20) National Symposium on Challenging Areas in Forensic Science organized by Sri Guru Teg Bahadur Khalsa College, University of Delhi on Feb. 5, 2010.
- 21) National Seminar on Ecological Crises organized by Department of Distance Education, Punjabi University, Patiala from September 8-9, 2011.
- 22) Attended **National Conference on Biodiversity: Challenges & Issues** to be organized by Albert Einstein science Institute in collaboration with North Eastern Hill University, at Women's College, Shillong from 5-6 June, 2014.
- 23) Attended as expert at one day seminar on '**Scientific Investigation in Forensics**' to deliver invited talk and conduct field training session, organized by the University institute of Bio and Pharma Sciences, Chandigarh University, Gharuan, Mohali, Punjab, India on 09-02-2015.

- 24) Attended UGC-SAP Seminar on Forensic Toxicology, which was organized by Department Forensic Science, Punjabi University, Patiala on 5th Sept., 2015.
- 25) Attended One day **National Seminar of Forensic Science: the Art of Decoding Crime** organized by Kerala Law Academy Law College & Centre for Advanced Legal Studies and Research, at Thiruvananthapuram, Kerala, India on 29th July, 2016.
- 26) Attended three day Regional Workshop on the topic *Research as Pedagogy a Science Teacher Education programme (RAP a STEP) for teachers of undergraduate science courses. Which was sponsored by MHRD supported Center of Excellence for science and Math (COESME) of IISER (Indian Institute of Science and Research), Pune and Department of Biotechnology (DBT), Govt. of India at Punjabi University, Patiala from September 29 to October 1, 2016.*
- 27) Attended one-day workshop ‘**Role of Forensic Science in Administration of Justice**’ as a resource person organized by the department of Law, Punjabi University, Patiala on 02-03-2017.
- 28) Attended **National Conference on Future Perspectives of Forensic Science in India - 2017** organized by Dr. Abdul Kalam Institute of Forensic Science and Criminology, Bundhelkhand University, Jhansi (U.P.) India from March 9-10, 2017.
- 29) Attended **National Conference on Forensic Science at the Service of Mankind - 2017** organized by Department of Anthropology, Lucknow University, Lucknow (U.P.) India from March 23-24, 2017.
- 30) Attended and Delivered a Keynote address during 1st **National Forensic Science Conclave on ‘Role of Universities in Nurturing the Discipline’** organized by Forensic Science Section, Department of Anthropology, University of Delhi, Delhi on February 10, 2018.
- 31) Attended ‘FORENSICON 2019’ A **National Conference on “Challenges & Innovations in Criminal Justice System”** organized by Dr. Abdul Kalam Institute of Forensic Science and Criminology, Bundhelkhand University, Jhansi (U.P.) India from February 21-22, 2019.

REFERENCES

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