

**DR. PRAGYA KHANNA****Ph.D., D.Litt. MNASc, FSLSc., FIASc.**

DESIGNATION: **ASSOCIATE PROFESSOR**  
 SUBJECT: **ZOOLOGY**  
 Area of Specialization: **CYTOGENETICS**  
 COLLEGE: **Govt. (Autonomous) College for Women, Parade Ground,  
 Jammu-180 001 (J&K), India.**  
 E-Mail: [pragyajmu2002@yahoo.co.in](mailto:pragyajmu2002@yahoo.co.in)  
 Phone: **94191-94244**

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**SUMMARY****Year   Degree**

**2002   PhD**                      Topic: **Studies on the chromosomes of Chironomids of  
 Jammu region.**

**UNIVERSITY OF JAMMU, J&K.**

**2016   D.Litt. (Hon.)**                      **UNIVERSITY OF SOUTH AMERICA, US (Notification  
 List appears on [www.universityofsouthamerica.us](http://www.universityofsouthamerica.us))**

Field of specialization:                      **Cytogenetics, Cytotaxonomy, biomonitoring, Genotoxicity,  
 Chromosomal polymorphism.**

Currently working on:                      **Physico-chemical and microbiological analysis of ground  
 water in and around Jammu region with special reference to  
 heavy metals, pesticides and industrial effluents.**

**AWARDS AND ACHIEVEMENTS**

- 1) **BEST PAPER PRESENTATION AWARD** in Animal Sciences at the Ninth All India Conference on Cytology and Genetics, 2003 held at The Institute of Genetics and Hospital for Genetic Diseases, Osmania University, Begumpet, Hyderabad.
- 2) **YOUNG SCIENTIST AWARD** at the National Conference on Zoology-2003, 14<sup>th</sup> All India Congress of Zoology, held at Vivekananda College, Agastheeswaram, Kanyakumari.
- 3) **YOUNG SCIENTIST AWARD** at the National Conference on Zoology-2004, 15<sup>th</sup> All India Congress of Zoology held at University of Jammu, Jammu (J&K).

- 4) **SWARNA JAYANTI PURUSKAR** for the presentation of Best Research Paper by The National Academy of Sciences, India, in the 74<sup>th</sup> Annual session, 2004 held at University of Rajasthan and Birla Institute of Scientific Research, Jaipur.
- 5) **2<sup>ND</sup> POSITION** in the 1<sup>st</sup> J&K State Science Congress, University of Jammu, Jammu (J&K), 2005.
- 6) **OUTSTANDING RESEARCH AWARD** by the Zoological Association, Kurukshetra University, Kurukshetra in the 21<sup>st</sup> National Symposium of Indian Society of Life Sciences on 'Recent Advances in Life Sciences and Environmental Conservation in welfare of Human Society', 2006.
- 7) **MASTER KARAMCHAND BEST TEACHER AWARD** by Karam Vidya Education Trust, Jammu and Kashmir, 2005-2006.
- 8) **HONORARY FELLOWSHIP** of 'The Society of Life Sciences', Madhya Pradesh for outstanding contributions in the field of Life Sciences.
- 9) **AWARDED HONORARY MEMBERSHIP OF THE NATIONAL ACADEMY OF SCIENCES, INDIA.**
- 10) **HONORARY FELLOWSHIP** awarded by the Institute of Applied Sciences, Allahabad in Sept. 2009.
- 11) Name included as a Biographee in the 26<sup>th</sup> edition of Marquis **WHO'S WHO IN THE WORLD**, New Jersey, USA, 2009.
- 12) Nominated as **INTERNATIONAL EDUCATOR FOR THE YEAR 2009** by the **International Biographical Centre, Cambridge, England.**
- 13) Awarded **RASHTRIYA GAURAV AWARD** by the India International Friendship Society, New Delhi in 2010.
- 14) **AWARD OF EXCELLENCE** for exemplary contribution in the field of Research/Higher Education by Rangshala Theatre Group of Society, Jammu during a Program, '*Pratibhashali Beti*', 2010.
- 15) **AWARD OF HONOUR** presented by Trikuta College of Education, Jammu for contributions in the field of Higher Education, 2011.
- 16) **INNOVATIVE SCIENCE TEACHER AWARD 2011** by the **J&K State Council for Science and Technology, Dept. of Science and Technology, Govt. of Jammu and Kashmir.**
- 17) **EMINENT SCIENTIST GOLD MEDAL 2015** by the **Society of Life Sciences, Madhya Pradesh for Outstanding academic contributions and achievements in the field of Cytogenetics.**

- ❖ Received a '**Letter of Appreciation**' by the Commissioner Secretary to Govt., Higher Education Department, Jammu/Srinagar vide letter No. PS/C/S(HE)/09/45 dated: 9.10.2009.

**REPORTED 14 NEW SPECIES OF CHIRONOMIDS FROM JAMMU AND KASHMIR, OUT OF WHICH 7 FORM THE FIRST TIME REPORTS FROM THE WORLD.**

- **Attribution accorded for collection of rare specimens of Chironomids from J&K by Biodiversity Institute of Ontario, Barcode Index Number Registry For BOLD:AAW3997**

[The BOLD Identification System (IDS) for COI accepts sequences from the 5' region of the mitochondrial Cytochrome c oxidase subunit I gene and returns a species-level identification when one is possible. Further validation with independent genetic markers will be desirable in some forensic applications.]

Specimen Depositories:

Biodiversity Institute of Ontario - [39]

University of Melbourne - [2]

Sequencing Centers:

Biodiversity Institute of Ontario - [39]

Photography:

Muhammad Ashfaq - [1]

Specimen Identification:

Dr. Jon Martin - [2]

Sequencing Support:

[International Barcode of Life](#) (WG1.7) - [38]

- **Chinese Academy of Sciences**, International DNA Barcode of Life Project: Global Mirror System of DNA Barcode Data, Specimen Information on ***Chironomus* sp. PK (Pragya Khanna)**
- **Insect Barcode Informatica (IBIn): National Institute of agriculturally important Insects (ICAR)**

NBAII Accession NO	CHINJA001-11
Species	<i>Chironomus incertipenis</i>
Order	Diptera
Family	Chironomidae
Bold ID	COTW048-11
Gen Bank ID	
Place	Jammu
State	Jammu-Kashmir
Country	India
Longitude-Lattitude	
Author	Pragya Khanna
Institute	University of Melbourne

Address

Barcode Marker

COI-5P

## PROFESSIONAL ATTAINMENTS:

- ❖ **Member, Board of Councilors**, Indian Journal of Environmental Sciences, Green Earth Foundation, Rajasthan.
- ❖ **Associate Editor, Science Bulletin**, 'The Society of Life Sciences', Satna, Madhya Pradesh.
- ❖ Name appears in the **"International Directory of Chironomid Workers"** at serial no. **235**, which can also be seen at the website: <http://www.ouc.bc.ca/eesc/iwalker/intpanis/index.html>
- ❖ **Honorary Membership** of the Zoological Association of Kurukshetra University, Kurukshetra in recognition to outstanding achievements in Zoology.
- ❖ **Reviewer**, 'African Journal of Agricultural Research', Nairobi, South Africa, **an ISI Indexed Journal with Impact Factor 0.080**
- ❖ **Member, Editorial Board** 'Journal of Food and Agricultural Sciences', Bowie, Maryland, United States.
- ❖ **Reviewer**, 'Greener Journal of Biological Sciences', International Greener Journals, Ikeja, Lagos, Nigeria.
- ❖ **Reviewer**, 'Environment Monitoring and Assessment', a **Springer Verlag journal, Impact Factor 1.436**.
- ❖ **Member, State Advisory Board, J&K of WWF-India (World Wide Fund for Nature-India) for three years w.e.f 25-11-2013.**

## MEMBERSHIP OF SCIENTIFIC BODIES:

1. Life Member, Indian Science Congress Association, Kolkata.
2. Life Member, The National Academy of Sciences, India, Allahabad.
3. Life Member, Society of Cytologists and Geneticists, Bangalore, Karnataka.
4. Life Member, All India Congress of Cytology and Genetics, West Bengal.
5. Life Member, International Society of Applied Biology, Lucknow.
6. Life Member, The Society of Life Sciences, Madhya Pradesh.
7. Life Member, Green Earth Foundation, Rajasthan.
8. Life Member, Zoological Association, Kurukshetra University, Kurukshetra.
9. Honorary Member, Centre for Environment Education and Training, WWF-India, Jammu, J&K.

10. Life Member, Environment and Social Welfare Committee, Khajuraho, Madhya Pradesh, India.

### THESIS EXAMINED

- 1) Examined a PhD thesis in the subject Zoology from Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, 2007.
- 2) Examined a PhD thesis in the subject Zoology from Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, 2008.
- 3) Examined a PhD thesis in the subject Zoology from Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, 2010.

### VIVA-VOCE CONDUCTED

- 1) Conducted viva-voce examination for **award of PhD Degree** in the subject Zoology in Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur on 21<sup>st</sup> Jan. 2012.

### REVIEW OF RESEARCH PAPERS

- 1) Reviewed a research paper entitled “Uptake and effects of lead and copper on three plant species in Contaminated soils: Role of Phytochelatin” published in **“African Journal of Agricultural Research” An ISI Indexed Journal with Impact Factor 0.080.**
- 2) Reviewed a research paper entitled “Application of water quality index to assess suitability of groundwater quality for drinking purposes in Hantebet” published in **‘Journal of Food and Agricultural Sciences’** an official journal of **‘International Society of African Bioscientists and Biotechnologists’**, Bowie, Maryland, United States.
- 3) Reviewed a research paper entitled “Seasonal variation in heavy metal contamination in water and sediments of river Sabarmati and Kharicut canal at Ahmedabad, Gujarat” published in **Environment Monitoring and Assessment, a Springer Verlag journal, Impact Factor 1.436.**
- 4) Reviewed a research paper entitled “Bioaccumulation of Some Heavy Metals and Total Hydrocarbon (THC) in the Tissues of Periwinkle (*Tympanotonus Fuscatus VarRadula*) in the Intertidal Regions of Qua Iboe River Basin, Ibeno, Akwa Ibom State, Nigeria” published in **Greener Journal of Agricultural Sciences (GJAS) ISSN: 2276-7770, International Greener Journals, Oko-Oba, Lagos, Nigeria, Africa. Impact Factor ICV: 6.15.**
- 5) Reviewed a research paper entitled “A theoretical study on determination of acidic dissociation constants of Penicillamine and Captoprillin water” published in **Greener Journal of Agricultural Sciences (GJAS) ISSN: 2276-7770, International Greener Journals, Oko-Oba, Lagos, Nigeria, Africa. Impact Factor ICV: 6.15.**
- 6) Reviewed a research paper entitled “Early detection of T1DM using anti- GAD and anti-insulin antibodies” published in **Greener Journal of Animal Breeding and Genetics, International Greener Journals, Oko-Oba, Lagos, Nigeria, Africa.**

- 7) Reviewed a research paper entitled “Implications of climatic variability on Market Gardening Crop Production in Santa sub-division of Cameroon” published in **Greener Journal of Agricultural Sciences (GJAS)** ISSN: 2276-7770, **International Greener Journals, Oko-Oba, Lagos, Nigeria, Africa. Impact Factor ICV: 6.15.**
- 8) Reviewed a research paper entitled “Aedes Mosquito: A Major Threat To Lahore-Punjab, Pakistan” published in **International Research Journal of Public and Environmental Health.**
- 9) Reviewed a research paper entitled “Analysis of physical and chemical parameters of borehole water in Gassol Local Government Area, North East, Nigeria” published in “**African Journal of Environment Science and Technology**”.

### CITATION INDEX:

1. In: P.K. Chaudhuri and A. Mazumdar: The study of Dipteran taxonomy under taxonomic capacity building project of all India coordinated project on insect Taxonomy funded by the Ministry of Environment & Forests, Govt. of India. *Chironomus* Newsletter on Chironomidae Research, No. 17, ISSN 0172-1941 October 2004. Co-editors: Ruth Contreras-Lichtenberg, Naturhistorisches museum Wien, Burgring 7, a-1014 Wien, Austria, Peter H. Langton, 5 Kylebeg Avenue, Mountsandel Colerane, co. Londonderry, Northern Ireland
2. Martin, J. & Saxena, S.: Synonymy of *Chironomus plumatisetigerus* Tokunaga, 1964, with *Chironomus circumdatus* Kieffer, 1916, Current Research, *Chironomus* Newsletter on Chironomidae Research, No. 22, ISSN 0172-1941 October 2009.
3. Martin, J.: *Chironomus samoensis* is a complex of species. Current Research, *Chironomus* Newsletter, 24:11-17 (2011).
3. Jon Martin: Morphology and Cytology of Oriental (Indomalayan Realm) *Chironomus* species, Oriental *Chironomus* v. Jan 2011.
4. Jon Martin: Morphology and Cytology of Oriental (Indomalayan Realm) *Chironomus* species, Oriental *Chironomus* v. Mar. 2011.
5. Jon Martin: *Chironomus samoensis* is a complex of species, Current Research, In: *Chironomus* Newsletter on Chironomidae Research, No. 24, ISSN 0172-1941 (printed) 1891-5426 (online), November 2011.
6. Odwin Hoffrichter: CURRENT BIBLIOGRAPHY: 1 JAN. 2006 - 30 SEP. 2007, In: *Chironomus* Newsletter on Chironomidae Research, No. 20, ISSN 0172-1941, November 2007.

### SESSIONS CHAIRED:

- 1) **Chaired one Scientific Session** in the Eleventh All India Congress of Cytology and Genetics, 28-30 Oct. 2002, held at Mahatama Gandhi Institute of Medical Sciences, Sevagram, Maharashtra.

- 2) **Chaired one Scientific Session** in the 1<sup>st</sup> J&K State Science Congress, University of Jammu, Jammu (J&K), 7-9 Feb. 2005.
- 3) **Chaired one Scientific Session** in the 21<sup>st</sup> National Symposium on 'Recent Advances in Life Sciences and Environmental Conservation in welfare of Human Society' from Feb. 3-5, 2006 organized by Kurukshetra University, Kurukshetra and Indian Society of Life Sciences, Kanpur.
- 4) **Chaired one Scientific Session** in a UGC sponsored National Seminar on 'Environmental Stresses and Biodiversity' from Nov. 8-9, 2006 organized by KVA DAV College for Women, Karnal (Haryana).
- 5) **Chaired one Scientific Session** in the National seminar on 'Water crisis and remedial management' on Nov. 21-22, 2007 held in KVA DAV College for Women, Karnal, Haryana.
- 6) **Chaired one Scientific Session** in the National Seminar on 'Technical advances in environment management and applied Zoology' organized by the Department of Zoology, Kurukshetra University, Kurukshetra, sponsored by CSIR, New Delhi on 23-25 Jan. 2008.
- 7) **Acted as Judge** in the 'Young Scientist Competition' in the National Seminar on 'Technical advances in environment management and applied Zoology' organized by the Department of Zoology, Kurukshetra University, Kurukshetra, sponsored by CSIR, New Delhi on 23-25 Jan. 2008.
- 8) **Chaired one Scientific Session and Acted as a Judge in the 'Young Scientist Competition'** in the 5<sup>th</sup> J&K Science Congress organized by the University of Jammu in collaboration with the J&K State Council for Science and Technology, Department of Science and Technology, Jammu/Srinagar from 8<sup>th</sup>-10<sup>th</sup> Feb. 2010.
- 9) **Acted as Judge** in the Symposium on **Women Empowerment** in the NSS Program on '**Save the Girl Child**' held in GCW, Parade Ground, Jammu on 6<sup>th</sup> Dec. 2011.

#### INVITED LECTURES:

- 1) Presented an **Invited lecture** to mark the '**World Ozone Day**' on 16<sup>th</sup> Sept. 2005 at Govt. Girls High School, Gandhi Nagar, Jammu on the topic '**Depletion of ozone layer**' in a program organized by the J&K State Council for Science and Technology, Department of Science and Technology, J&K Govt.
- 2) Presented an **Invited lecture** in the UGC sponsored National Seminar on 'Environmental Stresses and Biodiversity' held in KVA DAV College for Women, Karnal, Haryana on 8<sup>th</sup> and 9<sup>th</sup> Nov. 2006.
- 3) Delivered **FOUR invited lectures** through **EDUSAT** (Education satellite) in the subject Zoology from 23<sup>rd</sup> Oct. '07 to 27<sup>th</sup> Oct. '07 from the hub at Govt. College for Women, Gandhi Nagar, Jammu.

- 4) Presented an **Invited lecture** in the National Seminar sponsored by Ministry of Earth Sciences, Govt. of India and UGC on 'Water crisis and remedial management' held in KVA DAV College for Women, Karnal, Haryana on Nov. 21-22, 2007.
- 5) Presented an **Invited lecture** in the National Seminar on 'Technical advances in environment management and applied Zoology' organized by the Department of Zoology, Kurukshetra University, Kurukshetra, sponsored by CSIR, New Delhi on 23-25 Jan. 2008.
- 6) **Guest lecture** delivered in SPMR College of Commerce, Jammu on the topic 'Health at the mercy of toxins' on 17<sup>th</sup> Sept. 2009.
- 7) Presented an **Invited lecture** in the Senate Hall of the Kurukshetra University, Kurukshetra on 26<sup>th</sup> Oct. 2009 on the '**14 new species of Chironomids reported from J&K**'.
- 8) Delivered an **Invited Lecture** on '**Prenatal Diagnostic Techniques**' in the NSS Program on '**Save the Girl Child**' held in GCW, Parade Ground, Jammu on 6<sup>th</sup> Dec. 2011.
- 9) Delivered a **Guest Lecture** in Orientation Programme (Career guidance Session) for Parents of students of class X in Presentation Convent Senior Secondary School, Gandhi Nagar, Jammu on 21<sup>st</sup> Jan. 2012.
- 10) Delivered an **Invited Lecture** in UGC-Sponsored Orientation Program in Jammu University on 30<sup>th</sup> Jan. 2012.
- 11) Delivered an **Invited Lecture** in 5 day Orientation program for Knowledge Text Translation (Dogri) organized by **National Translation Mission, Central Institute of Indian Languages, Ministry of Human Resource Development, Govt. of India, Mysore** on 14<sup>th</sup> Sept. 2012 at Govt. College for Women, Udhampur, J&K.
- 12) Delivered an **Extension Lecture** in the workshop on 'SMART TECHNOLOGIES' held at GCW, Parade Ground, Jammu from 16<sup>th</sup> to 18<sup>th</sup> Oct. 2012.
- 13) Delivered an **Invited Lecture** in the UGC sponsored course '**Women and Technology**' on the topic '**Women and IT**' in the **Centre for Women Studies, MIER College of Education, B.C. Road, Jammu, J&K** on 30<sup>th</sup> Jan. 2013.
- 14) Delivered an **Invited Lecture** in the UGC sponsored course '**Women and Technology**' on the topic '**Women's Empowerment in IT**' in the **Centre for Women Studies, MIER College of Education, B.C. Road, Jammu, J&K** on 31<sup>st</sup> Jan. 2013.
- 15) Delivered **TWO Invited Lectures** in 5 day Orientation program for Knowledge Text Translation (Punjabi) on '**Translating Life Sciences Texts (Zoology)**' organized by **National Translation Mission, Central Institute of Indian Languages, Ministry of Human Resource Development, Govt. of India, Mysore** on 15<sup>th</sup> Feb. 2013 at the **Centre for Diaspora Studies, Punjabi University, Patiala**.
- 16) Delivered an **Invited Lecture** in 5 day Orientation program for Knowledge Text Translation (Dogri) organized by **National Translation Mission, Central Institute of Indian Languages, Ministry of Human Resource Development, Govt. of India, Mysore** on 27<sup>th</sup> Aug. 2013 at Govt. Degree College for Boys, Udhampur, J&K.



- 17) Delivered an **Invited lecture** on ‘**Health at the mercy of toxins**’ in 6 days **Regional Level Science Congress**, organized by **Jawahar Navodaya Vidyalaya**, Ministry of Human Resource Development (Department of School Education & Literacy), GOI, Nud, Distt. Samba (J&K) on 16<sup>th</sup> Nov. 2013.
- 18) Delivered an **Invited Lecture** in the 21 days training program on ‘**Recent Trends in optimization of livestock health and production with special emphasis to hilly areas**’ in the Sher-e-Kashmir University of Agricultural Sciences and Technology, R.S Pura, Jammu on 16<sup>th</sup> Dec. 2013.
- 19) Delivered an **Invited Lecture** in the **Orientation Program in Jammu University** on 4<sup>th</sup> Feb. 2015.
- 20) Delivered an **Invited Lecture** in Govt. School, Satwari on ‘**Health, Hygiene and Sanitation**’ sponsored by the J&K State Council for Science and Technology, Department of Science and Technology, Jammu/Srinagar on 16<sup>th</sup> Feb. 2015.

## ORGANIZATIONAL ACTIVITIES

1. **Associated** in the organization of **XXVIII<sup>th</sup> Annual Conference of Indian Society of Human Genetics** held in the University of Jammu from 7<sup>th</sup> –9<sup>th</sup> Feb. 2003 as **Member of Auditorium & Scientific Sessions Committee and Abstract & Souvenir Committee**.  
\*Also **anchored** all the sessions of the Conference.
2. Member, Organizing Committee, ‘Two Day National IT Festival 2009: IT MARATHON held in Govt. College for Women, Parade Ground, Jammu on 23<sup>rd</sup> and 24<sup>th</sup> of Dec. 2009 sponsored by the J&K State Council for Science and Technology, Dept. of Science and Technology, J&K.
3. **Associated** in the organization of the 5<sup>th</sup> J&K Science Congress organized by the University of Jammu in collaboration with the J&K State Council for Science and Technology, Department of Science and Technology, Jammu/Srinagar from 8<sup>th</sup>-10<sup>th</sup> Feb. 2010 as **Member of the Exhibition Committee and Control Room committee**. \*Also **anchored** all the sessions of the Conference.
4. **Organizing Secretary** in the UGC sponsored Two day Seminar on ‘**Global Issues on Environment**’ held in the Govt. College For Women, Parade Ground, Jammu on 17<sup>th</sup> -18<sup>th</sup> Sept. 2010.
5. **Member** of the **Organizing Committee** in the **Wild Life Week Celebrations** organized by the Science club of GCW, Parade Ground, Jammu in collaboration with J&K State Council of Science and Technology, Jammu w.e.f. 4<sup>th</sup> Oct.-9<sup>th</sup> Oct. 2010.
6. **Organizing Secretary** in the ‘**RED CROSS MELA**’ a Mega-Event held in the Govt. College For Women, Parade Ground, Jammu on 18<sup>th</sup> Dec. 2010.
7. **Organizing Secretary** in the program on ‘**Biodiversity Conservation**’ (the program included a rally, two awareness lectures and a plantation drive) , sponsored by **WWF-India, J&K**.

8. **Member, Organizing Committee** in the program on 'World Philosophy Day' organized by Govt. College for women, Parade Ground, Jammu in collaboration with Indian Council of Philosophical Research, New Delhi on 7<sup>th</sup> Dec. 2011.
9. **Organizing Secretary** in the '**RED CROSS MELA**' a Mega-Event held in the Govt. College for Women, Parade Ground, Jammu on 8<sup>th</sup> Dec. 2011.
10. **Organized a Lecture** on '**Women and livestock**', to encourage the students to take up entrepreneurship in the field, in GCW, Parade Ground, Jammu on 11<sup>th</sup> Jan. 2012.
11. **Organizing Secretary** in the **One Day Conference** on the theme '**Green Earth**' under the auspices of **The Indian Science Congress Association, Jammu Chapter** held on 11<sup>th</sup> Feb. 2012 in Govt. College for Women, Parade Ground, Jammu.
12. **Organized an excursion/field visit** to village **Jhiri, Kanha Chak, Jammu** along with 45 students (Undergraduate level) in order to study the cultural heritage of the sacred grove and also prepared a 'Biodiversity Documentation Register'. The Program was sponsored by WWF-India, Jammu.
13. **Organized a Lecture** on '**Forests for Sustainable Livelihood**' in GCW, Parade Ground on 17<sup>th</sup> Feb. 2012.
14. **Organized a Rally** on '**Forest Conservation**' in GCW, Parade Ground, Jammu in collaboration with WWF-India, Jammu on 17<sup>th</sup> Feb. 2012.
15. **Organizing Secretary** for an Inter-College Seminar on '**Promotion and Popularization of Science and Technology is the need of the hour**' sponsored by the **J&K State Council for Science and Technology, Dept. of Science and Technology, Govt. of Jammu and Kashmir** held on 15<sup>th</sup> March 2012.
16. **Organizing secretary** in the Poster/Painting competition on '**Forests and Wildlife**' at GCW, Parade Ground Jammu on 9<sup>th</sup> Aug. 2012.
17. **Organizing secretary** in the program on '**Best out of waste**'. Exhibition cum sale of products created out of the household wastes on 12<sup>th</sup> Sept. 2012 at GCW, Parade Ground Jammu
18. **Organizing secretary** in the program entitled '**Paryavaran mitra hand printing pledge campaign**' for Biodiversity protection, conservation and sustainable use of resources under the auspices of **World Wide Fund for Nature-India, Jammu (J&K)** on 12<sup>th</sup> Sept. 2012 at GCW, Parade Ground Jammu
19. **Organizing secretary** in the program on 'World Ozone Day-2012' celebrated on 22<sup>nd</sup> Sept. 2012 at GCW, Parade Ground Jammu.
20. **Member, Organizing committee** in the workshop on 'SMART TECHNOLOGIES' held at GCW, Parade Ground, Jammu from 16<sup>th</sup> to 18<sup>th</sup> Oct. 2012.
21. **Organizing Secretary** in the **Two Day Program** on the theme '**Science for Shaping the Future of India**' under the auspices of **The Indian Science Congress Association, Jammu Chapter (Centenary Year Celebrations)** held on 19<sup>th</sup> and 20<sup>th</sup> Oct. 2012 at Govt. College for Women, Parade Ground, Jammu.

22. **Organizing secretary in Two Day National Level Painting Workshop** held at GCW, Parade Ground, Jammu on 23<sup>rd</sup> and 24<sup>th</sup> Nov. 2012.
23. **Organizing Secretary in the One Day Conference on ‘Environmental Pollution: Impact, Consequences and Remedial Measures’** sponsored by the **J&K State Council for Science and Technology, Dept. of Science and Technology, Govt. of Jammu and Kashmir** held on 5<sup>th</sup> Feb. 2013 at GCW, Parade Ground, Jammu.
24. **Organized UGC sponsored two day workshop on ‘Convention on elimination of all forms of discrimination against women’** on 25<sup>th</sup> and 26<sup>th</sup> March 2013 at GCW, Parade Ground, Jammu.
25. **Organizing Secretary of Two Day Workshop on Biotechnology** sponsored by J&K State Council for Science and Technology, Dept. of Science and Technology, J&K.
26. **Organizing Secretary of the 2<sup>nd</sup> J&K Women’s Science Congress-2013** sponsored by the **Dept. of Science and Technology, Govt. of India and J&K State Council for Science and Technology, Dept. of Science and Technology, J&K** held at Govt. College for Women, Parade Ground, Jammu **from 5<sup>th</sup> to 7<sup>th</sup> Nov. 2013.**  
The main highlights were the publication of the Souvenir cum Abstract book and the **Directory of Women Scientists of J&K.**
27. **Organizing Secretary of the Children’s Science Exhibition** sponsored by the **Dept. of Science and Technology, Govt. of India and J&K State Council for Science and Technology, Dept. of Science and Technology, J&K** held at Govt. College for Women, Parade Ground, Jammu **from 5<sup>th</sup> to 7<sup>th</sup> Nov. 2013.**
28. **Coordinator** for series of Science activities (Symposium on female foeticide, Seminar on Healthy lifestyle, Science quiz competitions, Science model and Science poster competitions, Science skit, Science workshop on food adulteration and National Science Day celebration) sponsored by the **J&K State Council for Science and Technology, Dept. of Science and Technology, J&K** held at Govt. College for Women, Parade Ground, Jammu **from Dec. 2014 to Feb. 2015.**

#### **MEDIA RECOGNITIONS:**

1. Biographical sketch published in the newspaper ‘**State Times**’ on **International Women’s Day** (8<sup>th</sup> March, 2009) under the title ‘**Jammu women: A saga of dedication**’.
2. Interview published in the newspaper ‘**Himalayan Mail**’ on 21<sup>st</sup> Aug. 2009 under the headline ‘**Jammu scientist nominated for International Educator Award**’ on front page.
3. **Interview** on academic accomplishments telecast on ‘**Take 1 Channel**’ on 21<sup>st</sup> Aug. 2009 in the program ‘**Topic today**’.
4. Interview published in the ‘**Hindustan Times**’ on 12<sup>th</sup> Sept. 2009 on page 4 under the headline ‘**Jammu lecturer gets international honour**’.
5. Interview published in the newspaper ‘**Tribune**’ on 20<sup>th</sup> Sept. 2009 under the headline ‘**Jammu scientist blazes trail**’ on front page.
6. **Interview** on academic accomplishments telecast on ‘**Take 1 Channel**’ on 21<sup>st</sup> Sept. 2009 in the program ‘**Kaho Saheli**’.

7. **Interview** on academic accomplishments aired on '**All India Radio**', **Jalandhar** on 23<sup>rd</sup> Sept. 2009 in the program '**Savere Savere**' at 7:30 AM.
8. **Profile published** in the Saturday supplement '**Jammu Plus**' of the newspaper '**Times of India**' on 26<sup>th</sup> Sept. 2009.
9. **Interview** on research interests published in the newspaper '**Indian Express**' on 4<sup>th</sup> Oct. 2009.
10. Interview on research interests published in '**Dainik Jagran**' under the headline '**Har Beti mein chupi hai Pragma**' on 4<sup>th</sup> Sept. 2010.
11. Interview telecast on **Take 1 Channel** in the program '**Towards Health**' on 18<sup>th</sup> Dec. 2010.
12. **Interview** published in **Hindustan Times** on Women's Day on 8<sup>th</sup> March 2011 under the headline **Education essential for uplifting women**.
13. **Interview** on research interests published in the newspaper **Kashmir Images** on 1<sup>st</sup> Apr. 2011 under the title '**Pragma an epitome of success**'.
14. **Guest of Honor** in the six-day short play festival organized by Shivani Cultural Society, Jammu from 26<sup>th</sup> Apr. -1<sup>st</sup> May 2011.
15. **Interview** telecast on **Jammu Doordarshan** on '**Female foeticide**' on 23<sup>rd</sup> July 2011.
16. **Interview** telecast on **Jammu Doordarshan** on '**Dowry system in India**' on 7<sup>th</sup> Aug. 2011.
17. **Interview** telecast on **Jammu Doordarshan** on '**Mahatma Gandhi and his crusade for Women Liberation**' on 2<sup>nd</sup> Oct. 2011.
18. **Interview** broadcast on **All India radio** on '**Independence Day and its significance in today's times**' on 11<sup>th</sup> Aug. 2012.
19. **Interview** broadcast on **All India Radio** on self authored book entitled, '**Textbook of Applied Zoology, Parasitology and Biotechnology**' on 12<sup>th</sup> Sept. 2012.
20. **Interview** broadcast on **All India Radio FM 100.3** on **Opportunities in Life Sciences** on 1<sup>st</sup> May 2014.
21. **Interview** broadcast on **All India Radio FM 100.3** on self authored book entitled, '**Animal Physiology and related Biochemistry**' and scope and prospects of Biotechnology in India, 10<sup>th</sup> Feb. 2015.

#### **CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:**

1. Eighty-eighth session of the Indian Science Congress, Jan. 2001, held at Indian Agricultural Research Institute, New Delhi. Presented a paper.
2. Eighth All India Conference on Cytology and Genetics, Jan. 2001, held at Bangalore University, Bangalore. Presented a paper.

3. National Seminar on Indian Fisheries: Status & Prospects in Relation to Environmental Dynamics, Mar. 2001, held at University of Jammu, Jammu. Presented a paper.
4. Eleventh All India Congress of Cytology and Genetics, Oct. 2002, held at Mahatama Gandhi Institute of Medical Sciences, Sevagram, Maharashtra. Presented a paper.
5. Twenty-eighth Annual Conference of Indian Society of Human Genetics, Feb. 2003, held at University of Jammu, Jammu.
6. 73<sup>rd</sup> Annual Session of the National Academy of Sciences India & Symposium on "Astronomy in the New Millennium", 2003, Gujarat University, Ahmedabad. Presented a paper.
7. Ninth All India Conference on Cytology and Genetics, 2003, Institute of Genetics and Hospital for Genetic Diseases, Osmania University, Begumpet, Hyderabad. Presented Two papers.
8. National Conference on Zoology-2003, 14<sup>th</sup> All India Congress of Zoology, Vivekananda College, Agastheeswaram, Kanyakumari. Presented Two papers.
9. 91<sup>st</sup> Session of Indian Science Congress Association, 2004, Punjab University and Institute of Microbial Technology, Chandigarh. Presented a paper.
10. Seminar on 'Recent Trends in Life Sciences', 2004. Organised by Science Communication Cell, The National Academy of Sciences India & Society of Life Sciences, Govt. PG College, Satna (MP). Presented a paper.
11. National Conference on Zoology-2004, 15<sup>th</sup> All India Congress of Zoology, University of Jammu, Jammu, (J&K). Presented a paper.
12. 74<sup>th</sup> Annual session of The National Academy of Sciences, India and Symposium on "Desert Development", 2004. University of Rajasthan and Birla Institute of Scientific Research, Jaipur. Presented a paper.
13. National Workshop on "Current Trends in Bioinformatics" organized by the Centre for Bioinformatics and Department of Bioscience & Biotechnology, Banasthali Vidyapith, Banasthali, Rajasthan, 2004.
14. Workshop on "Food Industry in J&K" organized by Govt. College for Women, Gandhi Nagar, Jammu, sponsored by the Ministry of Food Processing Industries, Govt. of India, 2004.
15. 1<sup>st</sup> J&K State Science Congress, University of Jammu, Jammu (J&K), 2005. Presented a paper.
16. 12<sup>th</sup> All India Congress of Cytology and Genetics, 2005. Department of Botany, Institute of Science, Mumbai. Presented two papers.
17. Workshop on "E-Learning in Higher Education-A step forward" organized by Govt. College for Women, Parade, Jammu, 2005. Presented a paper on "Enriching Quality Education through E-learning".

18. Attended UGC-sponsored state level one day conference on "Lead Colleges and Cluster of Colleges" on 21<sup>st</sup> Feb. 2005 organized by Govt. Gandhi Memorial Science College, Jammu. Presented a paper.
19. Attended two days Teachers' Training Workshop on Computer Applications held on 23<sup>rd</sup> and 24<sup>th</sup> July, 2005 organized by Govt. College for Women, Gandhi Nagar, Jammu in collaboration with College Development Council, University of Jammu.
20. Attended two days National I.T festival 2005 held on 29<sup>th</sup> and 30<sup>th</sup> Aug. '05 organized by Govt. College for Women, Parade, Jammu. Presented a paper on Electronic Governance.
21. Delivered an Awareness Lecture on "Depletion of Ozone Layer" on 16<sup>th</sup> Sept. 2005, in a program organized by the J&K State Council for Science and Technology, Science and Technology Department, Jammu to mark the "World Ozone Day" at Govt. Girls High School, Gandhi Nagar.
22. 21<sup>st</sup> National Symposium of Indian Society of Life Sciences, Kanpur on 'Recent Advances in Life Sciences and Environmental Conservation in welfare of Human Society', 2006. Department of Zoology, University of Kurukshetra, Kurukshetra. Presented a paper.
23. Attended five days 'Content Generation training program' for the resource persons for EDUSAT network conducted by Development and Educational Communication unit, Indian Space Research Organization, Ahmedabad from 10<sup>th</sup> July to 14<sup>th</sup> July, 2006 at GCW, Gandhi Nagar, Jammu.
24. Attended two days UGC sponsored National Seminar on 'Environmental Stresses and Biodiversity' held in KVA DAV College for Women, Karnal, Haryana on 8<sup>th</sup> and 9<sup>th</sup> Nov. 2006. Presented a paper.
25. Attended two days NAAC sponsored seminar on 'Dynamism in Higher Education: Towards quality excellence' held in GCW, Gandhi Nagar, Jammu on 1<sup>st</sup> and 2<sup>nd</sup> February, 2007. Presented a paper on 'Effective teaching in higher education'.
26. Attended one day Seminar on 'Women Empowerment: Challenges and future strategies' organized by the 'Centre for Women Studies', MIER College of Education, Jammu on 30<sup>th</sup> March 2007.
27. Attended a workshop 'Women's Development Program' sponsored by Springboard, British Council, organized by Jammu University and GCW, Gandhi Nagar from 4<sup>th</sup> Aug. to 15<sup>th</sup> Nov. 2007.
28. Attended a National Seminar sponsored by Ministry of Earth Sciences, Govt. of India and UGC on 'Water crisis and remedial management' held in KVA DAV College for Women, Karnal, Haryana on Nov. 21-22, 2007. Presented a paper.
29. Attended a National Seminar on 'Technical advances in environment management and applied Zoology' organized by the Department of Zoology, Kurukshetra University, Kurukshetra, sponsored by CSIR, New Delhi on 23-25 Jan. 2008. Presented a paper.
30. Attended the 78<sup>th</sup> Annual Session of the 'National Academy of Sciences' held at Panjab University, Chandigarh from November, 21-23, 2008. Presented a paper.

31. Attended a National Seminar on 'Impact of IT on society: Emerging trends and issues' organized by the Dept. of Computer Sciences, GCW, Parade, Jammu, J&K on 21<sup>st</sup> Feb. 2009. Presented a paper.
32. Attended a UGC sponsored five day SAM workshop on 'Capacity Building of Women in Higher Education' organized by the Centre of Women's studies, GCW, Parade, Jammu, J&K from 24<sup>th</sup> to 28<sup>th</sup> Feb. 2009.
33. Attended a workshop on 'Trends in Bioinformatics' organized by the University of Jammu, Jammu and Shri Mata Vaishno Devi University, Katra from 16<sup>th</sup> to 19<sup>th</sup> March, 2009.
34. Attended a seminar on 'Global Participation in India's Economic Development' on 7<sup>th</sup> Jan. 2010 at India Habitat Centre, New Delhi, organized by India International Friendship Society, New Delhi.
35. Attended 'Two Day National IT Festival 2009: IT MARATHON held in Govt. College for Women, Parade Ground, Jammu on 23<sup>rd</sup> and 24<sup>th</sup> of Dec. 2009 sponsored by the J&K State Council for Science and Technology, Dept. of Science and Technology, J&K.
36. Attended the 5<sup>th</sup> J&K Science Congress organized by the University of Jammu in collaboration with the J&K State Council for Science and Technology, Department of Science and Technology, Jammu/Srinagar from 8<sup>th</sup>-10<sup>th</sup> Feb. 2010. Presented a paper.
37. Attended a Seminar cum Award Function '*Pratibhashali Beti*' organized by Rangshala Theatre Group of Society, Jammu on 21-06-2010.
38. Attended and organized Two day UGC sponsored Seminar on 'Global Issues on Environment' in Govt. College for Women, Parade Ground, Jammu on 17<sup>th</sup> -18<sup>th</sup> Sept. 2010.
39. Attended Science Day Celebrations at GGM Science College, Jammu on 28<sup>th</sup> Feb. 2011. Presented a paper.
40. Attended one day National Seminar on 'Strategies for quality enhancement in teacher training institutions: Issues, practices and assessment' organized by Trikuta College of Education, Nardni-Raipur, Jammu on 27<sup>th</sup> Aug. 2011. Presented a paper.
41. Attended 7<sup>th</sup> JK science Congress organized by the University of Jammu in collaboration with the J&K State Council for Science and Technology, Department of Science and Technology, Jammu/Srinagar from 13<sup>th</sup>-15<sup>th</sup> Oct. 2011. Presented a paper.
42. Attended a seminar on 'World Philosophy Day' organized by Govt. College for women, Parade Ground, Jammu in collaboration with Indian Council of Philosophical Research, New Delhi on 7<sup>th</sup> Dec. 2011.
43. Attended a National Seminar on 'Quality Assurance in Higher Education' in Adarsh College of Education, Tarore, Dist. Samba, Jammu on 7<sup>th</sup> Jan. 2012. Presented a paper.
44. Attended One Day Conference on the theme 'Green Earth' under the auspices of The Indian Science Congress Association, Jammu Chapter held on 11<sup>th</sup> Feb. 2012 in Govt. College for Women, Parade Ground, Jammu.

45. Attended and participated in 5 day Orientation program for knowledge text translation (Dogri) organized by National Translation Mission, Central Institute of Indian Languages, Ministry of Human Resource Development, Govt. of India, Mysore. Presented a paper.
46. Attended an Inter-College Seminar on 'Promotion and Popularization of Science and Technology is the need of the hour' sponsored by the J&K State Council for Science and Technology, Dept. of Science and Technology, Govt. of Jammu and Kashmir held on 15<sup>th</sup> March 2012.
47. Attended the program on 'World Ozone Day-2012' celebrated on 22<sup>nd</sup> Sept. 2012 at GCW, Parade Ground Jammu. Presented a paper.
48. Attended the workshop on 'SMART TECHNOLOGIES' held at GCW, Parade Ground, Jammu from 16<sup>th</sup> to 18<sup>th</sup> Oct. 2012. Presented a paper.
49. Attended and organized the Two Day Program on the theme 'Science for Shaping the Future of India' under the auspices of The Indian Science Congress Association, Jammu Chapter (Centenary Year Celebrations) held on 19<sup>th</sup> and 20<sup>th</sup> Oct. 2012 at Govt. College for Women, Parade Ground, Jammu.
50. Attended Two Day National Level Painting Workshop held at GCW, Parade Ground, Jammu on 23<sup>rd</sup> and 24<sup>th</sup> Nov. 2012.
51. Attended the One Day Conference on 'Environmental Pollution: Impact, Consequences and Remedial Measures' sponsored by the J&K State Council for Science and Technology, Dept. of Science and Technology, Govt. of Jammu and Kashmir held on 5<sup>th</sup> Feb. 2013 at GCW, Parade Ground, Jammu.
52. Attended the UGC sponsored course 'Women and Technology' in the Centre for Women Studies, MIER College of Education, B.C. Road, Jammu, J&K on 30<sup>th</sup> Jan. 2013. Presented a paper.
53. Attended the UGC sponsored course 'Women and Technology' in the Centre for Women Studies, MIER College of Education, B.C. Road, Jammu, J&K on 31<sup>st</sup> Jan. 2013. Presented a paper.
54. Attended the 5 day Orientation program for Knowledge Text Translation (Punjabi) on 'Translating Life Sciences Texts (Zoology)' organized by National Translation Mission, Central Institute of Indian Languages, Ministry of Human Resource Development, Govt. of India, Mysore on 15<sup>th</sup> Feb. 2013 at the Centre for Diaspora Studies, Punjabi University, Patiala. Presented two papers.
55. Participated in the National Seminar on 'Higher Education in J&K: Challenges and Perspectives' held at Govt. Degree College, Kathua on 22<sup>nd</sup> and 23<sup>rd</sup> Dec. 2012.
56. Participated in the Training Workshop on Innovative Activities with no cost low cost science teaching aids organized by the J&K students Welfare Society, Anantnag and GCW, Parade Ground from 22<sup>nd</sup> to 25<sup>th</sup> Dec. 2012.
57. Participated in UGC sponsored two day workshop on 'Convention on elimination of all forms of discrimination against women' on 25<sup>th</sup> and 26<sup>th</sup> March 2013 at GCW, Parade Ground, Jammu.



58. Participated in 5 day Orientation program for Knowledge Text Translation (Dogri) organized by National Translation Mission, Central Institute of Indian Languages, Ministry of Human Resource Development, Govt. of India, Mysore on 27<sup>th</sup> Aug. 2013 at Govt. Degree College for Boys, Udhampur, J&K.
59. Attended and organized the One Day Conference on 'Environmental Pollution: Impact, Consequences and Remedial Measures' sponsored by the J&K State Council for Science and Technology, Dept. of Science and Technology, Govt. of Jammu and Kashmir held on 5<sup>th</sup> Feb. 2013 at GCW, Parade Ground, Jammu.
60. Attended and Organized Two Day Workshop on Biotechnology sponsored by J&K State Council for Science and Technology, Dept. of Science and Technology, J&K.
61. Attended and Organized the 2<sup>nd</sup> J&K Women's Science Congress-2013 sponsored by the Dept. of Science and Technology, Govt. of India and J&K State Council for Science and Technology, Dept. of Science and Technology, J&K held at Govt. College for Women, Parade Ground, Jammu from 5<sup>th</sup> to 7<sup>th</sup> Nov. 2013.  
The main highlights were the publication of the Souvenir cum Abstract book and the Directory of Women Scientists of J&K.
62. Attended and Organized the Children's Science Exhibition sponsored by the Dept. of Science and Technology, Govt. of India and J&K State Council for Science and Technology, Dept. of Science and Technology, J&K held at Govt. College for Women, Parade Ground, Jammu from 5<sup>th</sup> to 7<sup>th</sup> Nov. 2013.
63. Attended the 101<sup>st</sup> Indian Science Congress 3<sup>rd</sup>-7<sup>th</sup> Feb. 2014 held in the University of Jammu, Jammu. Presented a paper.
64. Attended two day workshop on 'Choice based credit system' organized by the Govt. College for Women, Parade Ground, Jammu on 22<sup>nd</sup> and 23<sup>rd</sup> April 2015.
65. Attended a Two day workshop on 'Solid and Liquid Resource Management (SLRM)' designed by Indian Green Service (IGS) organized by Municipal Corporation, Jammu on 11<sup>th</sup> and 12<sup>th</sup> April 2016.
66. Participated in the 1<sup>st</sup> National Competition of Technical papers organized by Central Ground Water Board, Ministry of Water Resources, River Development and Ganga Rejuvenation, Govt. of India in March 2016.

#### LIST OF RESEARCH PUBLICATIONS:

1. Chromosomal characterization of *Chironomus plumosus* Form A from Jammu region. Tripathi, N.K., Sharma, O.P. and **Pragya Khanna**. J. Cytol. Genet. 3 (NS): 137-147 (2002).
2. A Karyological study on *Cryptochironomus* sp. (Diptera: Chironomidae) from Jammu region. Sharma, O.P., Tripathi, N.K. and **Pragya Khanna**. The Nucleus, vol. XXXXVI (1, 2): 48-53 (2003).

3. Karyological studies on *Stictochironomus* sp. (Diptera: Chironomidae) from Jammu region. Tripathi, N.K., Sharma, O.P. and **Pragya Khanna**. Research Bulletin (Sci.), Punjab University, Vol. 53: 75-80 (2003).
4. Studies on the polytene chromosomes of *Chironomus circumdatus* (Diptera: Chironomidae) from Jammu region. Tripathi, N.K., Sharma, O.P. and **Pragya Khanna**. The National Academy of Sciences, India, Vol. 74: 1-6 (2004).
5. Cytogenetic characteristics of *Chironomus javanus* (Diptera: Chironomidae) from Jammu region (J&K state), India. **Pragya Khanna**. In: Trends in Cytology and Genetics, ed. Prof. P.P. Reddy, Prof. C. Manoharachary, Dr. A. Jyothi, (2004), pp. 88-95.
6. Cytogenetic studies of *Chironomus* Species of Pseudothummi Complex (Chironomidae: Diptera) from Jammu Region. **Pragya Khanna**, Sharma, O.P. and Tripathi, N.K. In: Trends in Cytology and Genetics, ed. Prof. P.P. Reddy, Prof. C. Manoharachary, Dr. A. Jyothi, (2004), pp. 96-104.
7. Cytogenetic characteristics of *Chironomus incertipennis* (Chironomidae: Diptera) from India). **Pragya Khanna**, Tripathi, N.K. and Sharma, O.P. National Journal of Life Sciences, Vol. 1, No.1, 137-147 (2004).
8. The Cytology of *Chironomus striatipennis* (Diptera: Chironomidae) from Jammu region, J&K state, India. **Pragya Khanna**, Sharma, O.P. and Tripathi, N.K. Biological Memoirs, 30 (2): 72-77, (2004).
9. Cytogenetic studies of *Chironomus* Species of Pseudothummi Complex (Chironomidae: Diptera) from Jammu Region, (J&K), India. **Pragya Khanna**, Tripathi, N.K. and Sharma, O.P. National Journal of Life Sciences, 1(2): 425-437 (2004).
10. Karyological characterization of *Chironomus* sp. PK6 and PK7 (Diptera: Chironomidae) from Jammu region (J&K state), India. **Pragya Khanna**, Sharma, O.P. and Tripathi, N.K. The Nucleus, 47(3): 149-153, (2004).
11. Karyotypic analysis of *Chironomus plumosus* Form B (Diptera, Chironomidae) from Jammu region (India). Sharma, O.P., Tripathi, N.K. and **Pragya Khanna**. Persp. Cyt. Genet., 11 (Suppl. I): 595-608, (2005).
12. Genotoxic effect of cadmium chloride on polytene chromosomes of *Chironomus plumosus* Form B (Chironomidae: Diptera). **Pragya Khanna**, O.P. Sharma, and N.K. Tripathi. J. Cytol. Genet. 6 (NS): 55-68, (2005).
13. Genotoxic effect of lead nitrate on polytene chromosomes of *Chironomus plumosus* Form B (Chironomidae: Diptera). **Pragya Khanna**, N.K. Tripathi and O.P. Sharma. J. Appl. BioSci., 31(2): 137-144 (2005).
14. Genotoxic effect of mercuric chloride on polytene chromosomes of *Chironomus plumosus* Form B (Chironomidae: Diptera). **Pragya Khanna**, N.K. Tripathi and O.P. Sharma. National Journal of Life Sciences, 2 (1 & 2): 77-85, (2005).
15. Genotoxic effect of hydrogen peroxide on polytene chromosomes of *Chironomus samoensis* Edwards (Chironomidae: Diptera). **Pragya Khanna**, Sharma, O.P. and Tripathi, N.K. The National Academy of Sciences, India, Vol. 76 (B), I: 84-93, (2006).

16. Studies on the Effects of Aspirin on Gene Activity in Polytene chromosomes of *Chironomus plumosus* from Jammu Region (J&K State). **Pragya Khanna**, Tripathi, N.K. and Sharma, O.P. National Journal of Life Sciences, 4 (2): 185-192 (2007).
17. Genotoxic effect of trichlorfon on polytene chromosomes of *Chironomus plumosus* Form B (Chironomidae: Diptera). **Pragya Khanna**, Sharma, O.P. and Tripathi, N.K. Indian Journal of Multidisciplinary research, 2 (2): 209-218, (2006).
18. Genotoxic effect of aluminium chloride on polytene chromosomes of *Chironomus plumosus* Form B (Chironomidae: Diptera). **Pragya Khanna**, J. Appl. BioSci., 33(1):31-34 (2007).
19. Genotoxic effect of copper sulphate on polytene chromosomes of *Chironomus plumosus* Form B (Chironomidae: Diptera). **Pragya Khanna**, Indian Journal of Environmental Sciences, 11 (1): 1-5, (2007).
20. Karyological characterization of *Chironomus samoensis* Edwards (Diptera: Chironomidae) from Jammu region (J&K state), India. **Pragya Khanna**. J. Appl. BioSci., 33 (2): 93-96, (2007).
21. Genotoxic effect of textile industry effluent on polytene chromosomes of *Chironomus circumdatus* (Chironomidae: Diptera). **Pragya Khanna**, Sharma, O.P. and Tripathi, N.K. J. Cytol. Genet., 8 (NS): 75-82, (2007).
22. Water pollution: An insight. **Pragya Khanna**. In: Proceedings of the National Seminar on 'Water crisis and remedial management' sponsored by Ministry of Earth Sciences, Govt. of India and UGC, (2007), pp. 26-30.
23. Genotoxic effect of distillery effluent on polytene chromosomes of *Chironomus circumdatus* (Chironomidae: Diptera). **Pragya Khanna** and N.K. Tripathi, Indian Journal of Environmental Sciences, 13 (2): 97-102 (2009).
24. Genotoxic effect of lead acetate on Polytene chromosomes of *Chironomus plumosus* Form B (Chironomidae: Diptera). **Pragya Khanna** and N.K. Tripathi, J. Appl. BioSci., 35 (2): 63-66 (2009).
25. Arsenite-induced cytogenetic effects on the polytene chromosomes of *Chironomus plumosus* Form B (chironomidae- diptera). N. K. Tripathi, **Pragya Khanna** and Nidhi Gupta, The Bioscan, 4(4): 655-660, (2009).
26. Seasonal variation of some heavy metals in surface waters of river Tawi, Jammu (J&K). **Pragya Khanna**. Pollution Research, 29(2): 175-180 (2010).
27. Evaluation of water quality of river Tawi, Jammu (J&K), with reference to physico-chemical parameters. **Pragya Khanna**. Indian Journal of Environmental Sciences, 15 (1), pp 1-5 (2011).
28. Physico-chemical analysis of selected ground water samples in Tehsil Akhnoor, district Jammu, J&K, India. **Pragya Khanna**. Pollution Research 32 (4): 863-870 (2013).
29. Study of physico-chemical parameters and statistical analysis of groundwater of some places of Tehsil R.S. Pura, district Jammu, J&K, India. **Pragya Khanna**. Ecology, Environment and Conservation 20 (1) : (391-398) (2014).

30. Physico-chemical parameters and statistical analysis of groundwater of some places of tehsil Bishnah, district Jammu, J&K, India. **Pragya Khanna**. Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci. DOI 10.1007/s40011-014-0345-4 (2014).
31. Hydrochemical appraisal of groundwater in R.S. Pura Tehsil and adjoining areas, district Jammu, J&K, India. **Pragya Khanna** and Priya Kanwar. Asian Journal of Environmental Science, 9(1): 54-61 (2014).
32. Hydrogeochemical Evaluation of Groundwater In Shallow Aquifer System Of Udampur-Dun Terrace, J&K, India. Priya Kanwar and **Pragya Khanna**. International Journal of Science and Research (IJSR), Volume 3 Issue 5: 644-647, (2014).
33. Hydrochemical Assessment of Ground Water of Springs (Bowlis) of Udampur District, J&K, India. **Pragya Khanna**. International Journal of Science and Research (IJSR), Volume 3 Issue 6: 1313-1321, 2014.
34. Univariate Statistical Analysis of Hydrochemical Parameters of some Dug Wells of Reasi, J&K, India. Priya Kanwar and **Pragya Khanna**. International Journal of Geology, Earth & Environmental Sciences, Vol. 4 (2) pp. 234-239, (2014).
35. Appraisal of Ground Water Quality for irrigation in Outer Plains of Kathua District, J&K, India. Priya Kanwar and **Pragya Khanna**. International Journal of Geology, Earth & Environmental Sciences, Vol. 4(3): 74-80, (2014).
36. Impact of industrial waste on ground water in and around Bari Brahmna industrial area, Samba district, Jammu and Kashmir, India. Priya Kanwar and **Pragya Khanna**. International Journal of Advanced Biological Research [IJABR], VOL. 5(2) 2015: 143-149.
37. Impact of Urbanisation on Water Supply Wells in and around Jammu City, District Jammu, J&K, India. **Pragya Khanna**, Priya Kanwar, Amit Khajuria and Parvinder Kumar. International Research Journal of Natural and Applied Sciences Volume-2, Issue-3: 164-189. (2015)
38. Geospatial Approach for Mapping of Ground Water Quality of Outer Plains of Samba District, J&K, India. Priya Kanwar and **Pragya Khanna**. International Journal of Science and Research (IJSR), Volume 5 Issue 12: 1471-1477, 2016.

## BOOKS AUTHORED

05

1. **Textbook of Cell and Molecular Biology** (Published by IK International Publishing House Pvt. Ltd., New Delhi, 2008.)
2. **Essentials of Genetics** (Published by IK International Publishing House Pvt. Ltd., New Delhi, 2009)
3. **Animal Physiology** (Under publication by M/s Lakshmi Publications, New Delhi).

4. **Textbook of Applied Zoology, Parasitology and Biotechnology** (Published by N.R. Books International, Jammu (J&K), 2012).
5. **A Textbook of Animal Diversity** (Under Publication by N.R. Books International, Jammu (J&K)).
6. Contributed five Chapters entitled,
  1. **“Polytene and Lampbrush Chromosomes”**,
  2. **“C-Value Paradox”**
  3. **“Mutations”**
  4. **“Homeotic Genes”**
  5. **“Heterochromatization and Dosage compensation”**
 in the book **“Cellular and Biochemical Sciences”** edited by Dr. Ghanshyam Tripathi, JNV University, Jodhpur, published by IK International, New Delhi, 2010.

## PATENTS/ATTRIBUTIONS

➤ **Attribution accorded for collection of rare specimens of Chironomids from J&K by Biodiversity Institute of Ontario, Barcode Index Number Registry For BOLD:AAW3997**  
 [The BOLD Identification System (IDS) for COI accepts sequences from the 5' region of the mitochondrial Cytochrome c oxidase subunit I gene and returns a species-level identification when one is possible. Further validation with independent genetic markers will be desirable in some forensic applications.]

## RESEARCH PROJECTS:

1. **Co-Principal Investigator** in a major project entitled “Studies on the genotoxic effects of some heavy metals and pesticides on the polytene chromosomes of chironomids of Jammu region” sponsored by J&K State Council for Science and Technology Department of Science and Technology, Jammu/Srinagar vide Govt. order no. 18 ST of 2006 dated: 29-03-2006. (COMPLETED)

**Introductory report on the project published by the Jammu edition of ‘The Indian Express’ (The Himalayan Mail) on 5<sup>th</sup> May 2007 under the title ‘Centre approves a project to study impact of pesticides, metals on organisms’ genetic makeup’.**

**Performance report on the project published by the Jammu edition of ‘The Indian Express’ (The Himalayan Mail) on 6<sup>th</sup> Dec. 2008 under the title, ‘Alarming rate of water pollution in Tawi, says Govt. survey’.**

2. **Principal Investigator** minor Project entitled, “Genotoxic effect of heavy metals, pesticides and industrial effluents on the polytene chromosomes of *Chironomus plumosus* with special reference to pollution in river Tawi, Jammu J&K” awarded by UGC vide letter No. F.No. 8-1 (118)/2010 (MRP/NRCB) dated: 23<sup>rd</sup> March 2010. (COMPLETED)
3. **Principal Investigator** major Project entitled, “Physico-chemical and microbiological analysis of ground water in and around Jammu region and study on the genotoxic effect of different pollutants” awarded by J&K State Council for Science and Technology, Dept. of Science and Technology, Govt. of J&K. vide letter no. ST/C/588/2010/3795-98 dated 01-06-2011. (COMPLETED)

**Performance report on the project published by ‘The Tribune’ on 22<sup>nd</sup> April 2013 under the title, “Jammu’s groundwater high in toxicity, says research”.**

**Performance report on the project published by ‘The Tribune’ on 26<sup>th</sup> July 2013 under the title, “Jammu’s groundwater ‘polluted, unfit for human consumption”.**

#### **ACADEMIC QUALIFICATIONS**

<b>Examination passed</b>	<b>Board/University</b>	<b>Subject</b>	<b>Year</b>	<b>Division/Grade</b>
<b>Metric</b>	<b>J&amp;K Board of School Education</b>	<b>General</b>	<b>1990</b>	<b>Ist Division</b>
<b>Higher Secondary</b>	<b>J&amp;K Board of School Education</b>	<b>Physics, Chemistry, Biology, G. English</b>	<b>1992</b>	<b>Ist Division</b>
<b>B.Sc.</b>	<b>Univ. of Jammu</b>	<b>Medical (Botany, Zoology, Chemistry, G.English)</b>	<b>1995</b>	<b>Ist Division</b>
<b>M.Sc.</b>	<b>Univ. of Jammu</b>	<b>Zoology</b>	<b>1997</b>	<b>Ist Division 3<sup>rd</sup> Position</b>
<b>SLET</b>	<b>Univ. of Jammu</b>	<b>Life Sciences</b>	<b>1999</b>	<b>-</b>
<b>COMPUTER Course</b>	<b>APTECH</b>	<b>DOS, LOTUS, FOXPRO, WINDOWS</b>	<b>1997</b>	<b>Ist Division</b>
<b>Foreign Language</b>	<b>Univ. of Jammu</b>	<b>FRENCH</b>	<b>2001-02</b>	<b>--</b>

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