

Dr Avneet Kaur Bajaj
Asst Prof
Deptt of Biotechnology
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EDUCATIONAL QUALIFICATION : PHD in Human Genetics "Genetics of glaucoma",
Deptt of human genetics, Guru Nanak Dev university, Amritsar
M.Sc (HNS), Human Genetics, Deptt of human genetics, Guru Nanak
Dev university, Amritsar

B.Sc (HNS) Human genetics, Deptt of human genetics, Guru Nanak
Dev university, Amritsar

RESEARCH/ TEACHING EXPERIENCE

| | |
|----------------------|---|
| Aug 2012-till date | Working as Asst Prof (biotechnology) in GGDSD college, Sec32 Chd |
| June 2009-May2012 | Worked as research associate in Govt medical college and hospital, Sec 32, Chd in CSIR funded project |
| July2008-March2009 | Worked as Asst Prof (biotechnology) in GOVT postgraduate college for girls, Sec42 Chd |
| June2004-June 2007 | Worked as SRF in Centre for Genetic Disorders, Amritsar |
| June 2002- June 2004 | Worked as JRF in Centre for Genetic Disorders, Amritsar |
| May 1998 – May 2002: | Worked as TECHNICAL ASSISTANT in Indo German Project on “Indo-German Cooperation in the field of Human Genome Research and Medical Genetics” funded by Department of biotechnology, New Delhi. |

LIST OF PUBLICATIONS

1. Genetics of Glaucoma. (2006). **Avneet Kaur**, Daljit Singh and Jai Rup Singh Asian J. Exp. Sci., Vol. 20, Supplement, , 113-13
2. Preliminary report on neonatal screening for congenital hypothyroidism, congenital adrenal hyperplasia and glucose-6-phosphate dehydrogenase deficiency: a Chandigarh experience (2010). G Kaur, J Srivastav, S Jain, D Chawla, BS ChavaN, Atwal, Rajiv Randhawa Gurpreet, **Kaur, Avneet**, Prasad Rajendra. The indian journal of pediatrics, 77(9):969-73
3. Maternal serum second trimester screening for chromosomal disorders and neural tube defects in a government hospital of North India (2012). Kaur, Gurjit ,Srivastav, Jyoti ,**Kaur, Avneet**, Huria, Anju, Goel, Poonam, Kaur, Ravinder, Kataria, Sandeep ,Chavan,

- Bir, Kochhar, Suman Aggarwal, Purnima , Panigrahi, Inusha , Chawla, Pawandeep) Prenatal diagnosis. 32. 1-5. 10.1002/pd.3984.
4. Estimation and comparison of total phenolic and total antioxidants in green tea and black tea (2015). **Avneet Kaur**, Milandeep Kaur, Prabhjot Kaur, Harpreet Kaur, Sarbjeet Kaur, Khushwinderjit Kaur. G.J.B.B., VOL.4 (1) 2015: 116-120
 5. Cyber Crime through Mobile Phone in India and Preventive Methods. **Avneet Kaur** Bajaj Chander Jyoti. International Journal of Research and Review 2(3) 110-11
 6. Effect on Amylase Activity and Growth Parameters Due to Metal Toxicity of Iron, and Zinc (2015). Nidhi Mittal, Prachi Vaid, **Avneet Kaur**. Indian J Appl Res, 5(4). 662-664
 7. The Appraisal of Antioxidant and Oxidant Status in Women Undergoing Surgical Menopause. (2017). Avneet Kaur, Pooja Negi, Veena Sarna, Rajendra Prasad, Bir S. Chavan, Anita Malhotra, and Gurjit Kaur. Indian J Clin Biochem. Jun; 32(2): 179–185.
 8. Toxicity of metals such as iron, nickel and cobalt on seedlings of broad beans (*Vicia faba* L.). Nidhi Mittal, Kirti Sharma, **Avneet Kaur** (2017). International Education and Research Journal, 3(5). 662-664
 9. Heavy metal induced toxic effect on growth and biochemical activities of turnip (*Brassica Rapa*) seedlings. (2017). Amrit Kaur, Gagandeep Kaur, **Avneet Kaur**. Bioscience Discovery 8 (3).
 10. Biosorption of cadmium in fenugreek (*Trigonella foenum-graecum*) using fruit peel powder. Sakshi Narula, Sagrika Oberoi, Gurjit Bhadiar, Aditi Bhandral, Amrit kaur, Avneet kaur (2017). International Journal of Development Research 7 (6), 13514-13516
 11. Screening of CYP1B1 Arg368His as predominant mutation in North Indian primary open angle glaucoma and juvenile onset glaucoma patients. (2018). **Avneet Kaur**, Vanita Vanita, JaiRup Singh. Mol Biol Res Commun. Dec; 7(4): 181–186.
 12. Interactive effect of Salinity and Ascorbic acid on *Brassica Rapa* L. Nidhi Mittal, Sunaina Thakur, Heenavarma and **Avneet kaur** (Feb, 2018). Plants. Global journal of bioscience and biotechnology Vol7(1) 27-29. ISSN 2278-9103
 13. Qualitative and Biochemical Analysis of fresh, dry rhizomes and packed dry powder of Turmeric From North India. Nidhi mittal, Rashi goel, Manpreet kaur, **Avneet Kaur** (July, 2018) Global journal of bioscience and biotechnology Vol7(3) 27-29. ISSN 2278-9103
 14. Synergistic effect of pineapple peels & Green tea on antioxidant levels of pineapple peels infused. **Avneet kaur**, Yashita Jain, Kasish Mittal, Armin Kaur, Nidhi Mittal (Oct, 2018). Global journal of bioscience and biotechnology Vol7(3) 392-395. ISSN 2278-9103
 15. Antioxidant levels of common herbs and spices used in Indian tea: Black Pepper, Clove, Fennel, Mint, Cinnamon and Tulsi. **Avneet kaur**, Yashita Jain, Kasish Mittal, Armin Kaur, Nidhi Mittal (Oct, 2018) Int. Res. J. Pharm. 2018, 9(11) DOI: 7897/2230-8407.0911270
 16. Estimation of Antioxidant Levels in Peels of Pomegranate, Banana, Orange, Lemon, Sweet Lime (2019). **Avneet Kaur**, Yashita Jain, Kashish Mittal, Armin Kaur and Nidhi Mittal*. Studies on Ethno Medicine, 13(3): 175-181.
 17. Antioxidant Levels in Indian Rose, Hibiscus, Chrysanthemum and Marigold Tea and Their Comparison with Black and Green Tea (2019). **Avneet Kaur**, Radhika Suri ,

- Kajal Rana , Vandana Thakur , Preeti , Poonam Dimri , Nidhi Mittal. International Research Journal Of Pharmacy. 10 (10): 52-55.
18. Effective Use Of Antioxidant Activities Of Fruit Peels Of Pomegranate, Banana And Orange In Bioremediation Of Cd Toxicity In Fenugreek (*Trigonella Foecum-Graecum*) (2019). Avneet Kaur, Aditi Bhandral, Sakshi Narula, Sagrika Oberoi, Yashita Jain And Nidhi Mittal. Asian Journal of Microbiology, Biotechnology & Environmental Sciences. 21 (1):132-136
 19. Evaluation of edible flowers from northern india as a rich source of phytochemicals with antioxidant and phenolic properties. (2020). **Avneet Kaur** ,Kajal Rana, Vandana Thakral ,Poonam Dimri , Radhika Suri , Nidhi Mittal. International Research Journal of Pharmacy. 11. 29-32. 10.7897/2230-8407.110549.
 20. Phytochemical and antioxidant activity modifications in wheatgrass (*triticumaestivum* l) cultivated in organically fortified soil with fruit peels(2021). **Avneet Kaur**, Tanmayee Basu, Aditi Shridhar, Tarannum, Karishma, Manpreet, Nidhi Mittal. Journal of advanced scientific research.12(20.309-313).
 21. Effect of metal stress of iron, copper and zinc on amylase, acid phosphatase and alkaline Phosphatase activity in *phaseolus vulgaris* (2021). **Avneet kaur**, Nidhimittal.IJBPAS.10(12)., 10(12): 4413-4420.
 - 22 Evaluation of indian kangra green tea (*camellia sinensis* (l) o kuntze) infused with peels of local fruits (pomegranate, lemon, mosambi, orange and banana) as a natural source of antioxidants. **Avneet Kaur**, Tanmayee Basu, ,Nidhi Mittal. Journal of advanced scientific research, 2021, 12(3) suppl: 174-179. <https://doi.org/10.31032/IJBPAS/2021/10.12.5758>
 23. Investigation of antioxidant status 29 edible and medicinal plants from india. **Avneet Kaur**, Tanmayee Basu, Aditi Shridhar Tarannum, Karishma, Manpreet, Nidhi Mittal IJBPAS, June, 2022, 11(6): 2579-2592. <https://doi.org/10.31032/IJBPAS/2022/11.6.6135>
 24. Comparative analysis of carbohydrate, protein, ascorbic acid, phenolic, flavonoid and antioxidant evaluation of red and green color amaranthus leafy vegetable from India. **Kaur A**, Chrungoo S, Sharma N, Diksha And Mittal N*. IJBPAS, 2022, 11(10): 4787-4792 .<https://doi.org/10.31032/IJBPAS/2022/11.10.6500>
 25. The phenolic, flavonoid and antioxidant evaluation of wheat (*triticum aestivum*) and barley (*hordeum vulgare*) microgreen. Chrungoo s., **mittal n.**, kaur aijbpas, volume 12, year 2023, pages 3915-3922 doi: <https://doi.org/10.31032/ijbpas/2023/12.9.6974>
 26. Antioxidant status of barley grass grown in fertilizers formulation of different types of fruit peels. **Nidhi mittal.**, avneet kaur., shridhar., basu., tarannum., karishma., manpreet ijbpas, volume 12, year 2023, pages 3907-3914 doi: <https://doi.org/10.31032/ijbpas/2023/12.9.6973>

LIST OF BOOK CHAPTERS

| S.No. | Title with page no. | Book Title, editor&publisher | ISSN/ ISBNNo. | UGC Approved | YearofPublication |
|-------|---|---|--------------------------|--------------|-------------------|
| 1. | Chapter on “Local Environmental Issues” | Environment, Road Safety Education and Violence Against Women and Children” Jasamrit Kaur Samriti Dhawan Mohindra Publishing House | ISBN: 978-93-82068-29-7) | Yes | 2017 |
| 2. | Chapter on “Local Environmental Issues” | Environment, Road Safety Education and Violence Against Women and Children” Jasamrit kaur. Samriti dhawan Mohindra Publishing House | ISBN: 978-93-82068-29-7) | Yes | 2018 |
| 3. | Chapter on “Green Technology: Sustainable Development” | Sustainable Materials and Technologies Dr. Rohit Dutt Saptrishi Publication | ISBN: 978-81-975116-2-2 | Yes | 2024 |
| 4. | Chapter on “Microbial Fuel Cells: Sustainable Green Energy” | Sustainable Materials and Technologies Dr. Rohit Dutt Saptrishi Publication | ISBN: 978-81-975116-2-2 | Yes | 2024 |

1. FACULTY DEVELOPMENT PROGRAMME (NOT LESS THAN ONE WEEK DURATION)

| S.N. | Programme | Duration | Organised by |
|------|---|---|--|
| 1. | Subject specific benchmarking of Learning Outcomes: Outcome Based Education”, | 26 October to 01 November 2023, Grade A. | |
| 2. | 7 days “International Faculty Development program on Biological Sciences” | | |
| 3. | One Week Faculty Skill Development Programme on Biological Data Analysis & | 25 TH TO 31 ST MAY,2020 | PG and Research Department of Botany, NallamuthuGounderMahalingam |

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|-----|--|--------------------------------|--|
| | Data Science' | | College, Pollachi from 25th to 31st May 2020. |
| 4. | One Week National Online Teacher/Faculty Development Program (FDP) E-Learning and ICT Tools for Effective Teaching- Learning | 27feb-March 04, 2020 | Department of Bioinformatics & Biochemistry. GGSDS College, Chandigarh under RUSA, U.T. Administration, Chandigarh |
| 3., | “International Faculty Development program on Biological Sciences” | 08-13 June 2020 | Aravali College of Advanced Studies in Education, Pali, Faridabad. |
| 4. | Faculty development programme | 25th to 31st May 2020 | PG and Research Department of Botany, NallamuthuGounderMahalingam College, Pollachi |
| 5. | Research methodology in bioinformatics | April 29, 2013 to May 03, 2013 | Organized by University of The Fraser Valley and GGSDS College, Sector 32, Chandigarh |
| 6 | | Oct15, 2013 to 22oct, 2013 | Department of Bioinformatics. GGSDS College, |

REFRESHER COURSE

| S.no | programme | duration | Organized by |
|------|--|--------------------------------------|--|
| 1. | Advanced Research Methodology | 21 December 2022 - 05 January, 2023) | TLC Ramanujan College in collaboration with Janki Devi Memorial College University of Delhi under the Ministry of Education sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT) scheme |
| 2. | NEP Orientation & Sensitization Online Training Program, 102 | 1-02-24 to 14-02-2024, Grade A. | |

PAPERS PRESENTED IN CONFERENCES, SEMINARS, WORKSHOPS, SYMPOSIA

| S.N | Title of | Title of | Date(s) of | Organised | Whether | API |
|-----|----------|----------|------------|-----------|---------|-----|
|-----|----------|----------|------------|-----------|---------|-----|

| . | the paper presented | Conference/Seminar etc | the event | by | International/National/State/Regional/University or College Level | Score |
|---|--|---|-------------------------|--|---|-------|
| 1 | Evaluation of phytochemical and antioxidants and flower infused black tea | 4 th national seminar on recent advances in material science | 2017 | GGDSD college, Chandigarh | National | |
| 2 | OILS: Good or Bad, a critical look | Chandigarh Science Congress (CHASCON) | 2019, MARCH 13-15, 2019 | PANJAB UNIVERSITY, CHANDIGARH in collaboration with CRIKC CHANDIGARH REGION INNOVATION AND KNOWLEDGE CLUSTER (CRIKC) | National | |
| 3 | Evaluation and estimation of antioxidants in Broccoli, Parsley, Red cabbage (Kraut) and Lettuce in various solvents such as acetone, methanol, ethanol and water | Chandigarh Science Congress (CHASCON) | 2019, MARCH 13-15, 2019 | PANJAB UNIVERSITY, CHANDIGARH in collaboration with CRIKC CHANDIGARH REGION INNOVATION AND KNOWLEDGE CLUSTER | National | |
| 4 | Phytochemical analysis of various indian flowers, green tea and black tea | NATIONAL SYMPOSIUM ON Biotechnology: Trends and Innovations | Feb7-8, 2020 | GGDSD college, Chandigarh | National | |

WORKSHOPS / SEMINARS / SYMPOSIUMS / FDPs Organized

- Organized National Symposium ‘Biotechnology: Research & Development organized by Department of Biotechnology GGDSD College, Chandigarh sponsored by DBT & UGC New Delhi (4th February, 2012).
- Faculty cum Student Skill Development Program on “Biological Data Analysis and Data Science” under RUSA, 27th Feb 2020 – 4th March 2020.
- International Seminar on “Lab-to-field: Need for Translational Research organized by GGSDS College and Indian Science Congress Association, Chandigarh Chapter on 9th January 2024.
- On-site workshop on Flow Cytometry organized by GGDSD College in association with Flowcytometry Solutions Pvt. Ltd., India and TETC, India from 10th – 12th January 2024.