



Dr. Meonis Pithawala

Assistant Professor
CGBIBT
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Education

PhD in Biosciences (Animal science)

Veer Narmad South Gujarat University, Surat

2006

Master of Science, Biosciences (Animal science)

Veer Narmad South Gujarat University, Surat

2000

Bachelor of Science, Zoology

Veer Narmad South Gujarat University, Surat

1998

Specialization

Biosciences (Animal science)

Human Cytogenetics

Professional/Teaching Experience

Assistant Professor

C G Bhakta Institute of Biotechnology

**From 16th September, 2006 – Till date
(7 years)**

Research Interest

- **Human Cytogenetics**
- **Natural Products Research**
- **Stem cell biology**
- **Cancer cytogenetics**
- **Molecular Biology**
- **Clinical Embryology**

Research Experience

Dissertation: “The Possible Clastogenic Effects of Endosulfan on Human Chromosomes with Special Reference to Sister Chromatid Exchange Frequencies” in M. Sc. Part-II at Dept. of Biosciences, Veer Narmad South Gujarat University, Surat, Gujarat **(2000)**

Senior Research Fellow (SRF): “The Haematological, Biochemical and Cytogenetic studies of the Parsis in India”, within the frame work of UNESCO-PARZOR Foundation at Dept. of Biosciences, Veer Narmad South Gujarat University, Surat, Gujarat **(2003 - 2006)**

Doctorate: “Adaptive response to chemical mutagen Mitomycin-C in human lymphocytes, *in vitro*” under the proficient guidance of Professor (Dr) P. K. Gadhia, Dept. of Biosciences, Veer Narmad South Gujarat University, Surat, Gujarat **(2003 - 2006)**

Creditable position

➤ **As Guiding Teacher**

Dissertation/M.Phil/PhD	Year/Semester	No of student
PhD	2012 onwards	01
M.Sc. Dissertation	2011 - 2013	26
M.Sc. Dissertation	2012 - 2014	2
M.Sc. Dissertation	2013 - 2015	5
M.Sc. Dissertation	2014 - 2016	11

- **As a co-ordinator, Training and Placement, UKa Tarsadia University, Tarsadi**
- **As an Exam superintendent, UKa Tarsadia University, Tarsadi**
- **As a Ph.D. Guide, Uka Tarsadia University, Tarsadi**
- **As an M.Phil Guide, Veer Narmad South Gujarat University, Surat**
- **Member of Institutional Animal Ethical Committee**
- **Member, Board of Studies in Biotechnology/Microbiology, C.G. Bhakta Institute of Biotechnology, Uka Tarsadia University**



➤ **As a referee/reviewer in indexed/peer-reviewed journal**

A. Referee

1. Journal: International Journal of Human Genetics
ISSN: 0972- 3757
Publisher: KRE publishers

B. Reviewer

1. Journal: International Journal of Life Science and Medical Research
ISSN: 2226- 4558
Publisher: World Academic Publishing
2. Journal: Journal of Food Science and Technology
ISSN: 0975-8402
Publisher: Springer Verlag
3. Journal: International Journal of Bioengineering and Technology
ISSN: 0976-2965
Publisher: IJBTE publishers

Professional/Research Training

- Participated in EMBO workshop on Human Evolution and Molecular Diseases, held on 6–9 December **2006** at Center for Cellular and Molecular Biology (CCMB), Hyderabad
- Attended a national seminar on “New Horizons in Biological Sciences”, Sunday 23rd September **2007**, Organized by N V Patel College of Pure and Applied Sciences, V V Nagar, Anand and GSBTM, Gandhinagar
- Participated in Nine days Molecular Diagnosis of Genetic Disorders, Winter Workshop held on 19th Nov. to 28th Nov. **2007** at Foundation For Research In Genetics And Endocrinology, INSTITUTE OF HUMAN GENETICS, Ahmedabad
- Attended a national seminar on “Passion to Mission in Molecular Biology”, Friday, 28th November **2008**, Organized by N V Patel College of Pure and Applied Sciences, V V Nagar, Anand and GSBTM, Gandhinagar
- Undertook a training on “Skill Development in Stem Cell Technique: Basic Training in Cell Culturing” organized by Gujarat State Biotechnology Mission, Dept of Science and Technology, Govt. of Gujarat. Gandhinagar, at Stem Cure Pvt Ltd, Ahmedabad
- Attended a national seminar on “New frontiers in life sciences”, Saturday, 19th December **2009**, Organized by N V Patel College of Pure and Applied Sciences, V V Nagar, Anand





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- Participated in a day symposium on “Genetics in Clinical Practice” on 20th December **2009** at Foundation For Research In Genetics And Endocrinology, INSTITUTE OF HUMAN GENETICS, Ahmedabad
- Participated as resource person in A national seminar on Research in Experimental Pharmacology; preclinical and clinical aspects, organised by Maliba pharmacy college, Gopal Vidyanagar, Bardoli, on 27-28 Feb 2010
- Invited speaker in state level conference on “Interdisciplinary Research In Life Sciences”, Friday 15th March **2013**, Organized by Government Science College, Chikhli
- Attended one day seminar on “Microbes in health and disease – Bioconclave 2013” held at C G Bhakta institute of Biotechnology, on 19th October **2013**
- Worked as a coordinator in one day seminar on “Remote Sensing and Geographical Information System: Concepts and Application – 4th Bioconclave 2014” held at C G Bhakta institute of Biotechnology, on 8th February **2014**
- Worked as a convener in international conference on “Current Status, Opportunities and Challenges in Medicinal Plants and Natural Product Research” held at C G Bhakta Institute of Biotechnology, on 24th – 26th September, **2014**
- Worked as an organizing committee member in Farmers’ Meet & Seminar on “Organic Farming: Recent Trends in Horticultural Crops” held at C G Bhakta Institute of Biotechnology, on 25th February, **2015**

R & D projects completed/ongoing/proposed

Sr. No	Position	Title of the project	Funding agency	Budget	Status
1	As Principal Investigator sRef: No: BT/PR1315 6/GBD/27/ 208/2009	A randomized, self-controlled case series, follow-up cytogenetic study to appraise long-term efficacy of therapies in rheumatoid arthritis patients	Rapid Grant for Young Investigators (RGYI-Scheme) DBT, New Delhi	9, 95, 000	On going
2	As Principal Investigator	A proper cytogenetic control study for the detection of possible chromosomal abnormalities form those cells earmarked for human stem cell therapy programs	Department of Science and Technology (Swarnajayanti Fellowship)	48, 90, 000	Submitted
3	As Principal Investigator	Proficient Utilization of Comet Assay for Measuring Sperm DNA Integrity Prior To IVF/ICSI [Bt/Pr5019/Brb/10/1083/2012]	Department of Biotechnology (ePromis)	18, 98, 200	Submitted



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Bardoli-Mahuva Road, Tarsadi - 394 350, Dist. Mahuva, GUJARATA (India)

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Oral Presentation

- **Meonis Pithawala** and P. K. Gadhia (2009). Adaptive response to chemical mutagen mitomycin-c in human lymphocytes, *in vitro*. Oral Presentation at *International Conference on Biomedical and Genomic Research*, Ahmedabad, 29 – 31 January, 2009
- Sumitra Chakraborty, **Meonis Pithawala** and P. K. Gadhia (2009). Hematological and cytogenetic studies of individuals with occupational exposures to extremely low frequency electromagnetic fields (elf-emf). Oral Presentation at *International Conference on Biomedical and Genomic Research*, Ahmedabad, 29-31st January, 2009
- Dhruvi Mistry and **Meonis Pithawala** (2014). A probe for radioprotectors from *Alstonia scholaris* against Bleomycin – induced cytogenetic alterations in cultured human lymphocytes, *in vitro*. Poster Presentation at *International Conference on Human Genetics & 39th Annual meeting of the Indian Society of Human Genetics* on the theme of “Healthy Gene – Healthy Life”, Ahmedabad, 22nd – 25th January, 2014

Publications

Research Papers

- 1) P. K. Gadhia, Tejal Shah, Amit Mistry, **Meonis Pithawala**, and Dipesh Tamakuwala (2003). A Preliminary Study to Assess Possible Chromosomal Damage among Users of Digital Mobile Phones. *Electromagnetic Biology and Medicine*, **22(2)**: 149 – 159
- 2) P. K. Gadhia, Nehal Shah, Sweta Nahata, Swati Patel, Krupa Patel, **Meonis Pithawala** and Dipesh Tamakuwala (2004). Cytogenetic Analysis of Radiotherapeutic and Diagnostic Workers Occupationally Exposed to Radiations. *International Journal of Human Genetics*, **4(1)**: 65-69
- 3) P.K.Gadhia, Janhvi Nanavati, **Meonis Pithawala** and Salil Vaniawala (2005). Chromosomal aberrations and sister chromatid exchange frequencies in human lymphocytes after *in vitro* exposure to pesticide endosulfan (endocel). *J. Cell & Tissue Res*, **5(3)**: 413-416
- 4) Gadhia P. K., Patel Dharmesh, Solanki Kiran, Tamakuwala Dipesh and **Pithawala Meonis** (2005). A preliminary cytogenetic and hematological study of photocopying machine operators. *In. J. Occup. Environ. Med.*, **9 (1)**: 22-25
- 5) P. K. Gadhia, Salil Vaniawala and **Meonis Pithawala** (2005). Some observations on spontaneous sister chromatid exchange frequencies and cell cycle progression in stimulated lymphocytes of patients with different malignancies. *Int. J. Hum. Genet.* **5(3)**: 187-191



- 6) P. K. Gadhia, Siddika Shaikh, Hina Patel and **Meonis Pithawala (2005)**. Possible clastogenic effects of sodium metabisulfite on cultured human lymphocytes. In. J. Nut. Diet. **42**: 286-291
- 7) Pankaj Gadhia, Mohini Gadhia, Shaji Georje, K.R. Vinod and **Meonis Pithawala (2008)**. Induction of chromosomal aberrations in mitotic chromosomes of fish *Boleophthalmus dussumieri* after exposure *in vivo* to antineoplastics Bleomycin, Mitomycin-C and Doxorubicin, In. J. Sci. Technol. **1(7)**: 1-6
- 8) P. K. Gadhia, Sumitra Chakraborty and **Meonis Pithawala (2009)**. Hematological studies from individuals with occupational exposures to extremely low frequency electromagnetic fields (ELF-EMF);. J Cell & Tissue Res. **9(1)**: 1673-1679
- 9) Gadhia P. K., Kurichh Neha, Tyagi Priyanka, Gandhi Nimesh, Kapadia Nasrin, Patel Viral, Agarwal Neelam, Patel Falguni, Chakraborty Sumitra and **Pithawala Meonis (2010)**. Preliminary observations on health symptoms expressed by inhabitants living near cellular phone base stations. VNSGU Journal of Science and Technology, **I (7)**: 1-6
- 10) P. K. Gadhia, Sumitra Chakraborty and **Meonis Pithawala, (2010)**. Cytogenetic studies on railway engine drivers occupationally exposed to extremely low frequency electromagnetic fields (ELF-EMF). Int. J. Human Genet, **10(4)**: 263-269
- 11) Sumitra Chakraborty Mistry Dhruti and **Meonis Pithawala (2011)**. Pilot observation on possible ameliorative effects of aqueous extracts from bark of *Alstonia scholaris* on Bleomycin induced chromosomal damage in *in vitro* cultured human lymphocytes. Elect Pharmacol & Therap, **4**: 9-13
- 12) Sumitra Pithawala, Rita Meena and **Pithawala Meonis (2012)**. First round observation on increased micronuclei frequency among rheumatoid arthritis patients. Int J Pharma and Biosci, **3 (2)**: B 259-266
- 13) Sumitra Chakraborty, **Meonis Pithawala** and Pankaj Gadhia **(2012)**. Cytogenetic Studies of Individuals with Occupational Exposures to Extremely Low Frequency Electromagnetic Fields (ELF-EMF). Bulletin of Environment, Pharmacology and Life Sciences, **1 (6)**: 10-16
- 14) Ruchi Parmar, Sumitra Chakraborty, Rajashekhar Ingallhalli and **Meonis Pithawala (2015)**. Ascertaining anti-Inflammatory and analgesic activity in aqueous leaf extract of *Anisomeles indica* (L.) Kuntze. Advances in Bioresearch, **6 (1)**: 1 – 5

Review articles

- 1) Sumitra Pithawala, Dhruti Mistry, and **Pithawala Meonis (2012)**. 'JUNK DNA'- An Evolutionary Trash or Nature's Best Bequest? The IUP Journal of Genetics and Evolution, **V (1)**: 55-64





- 2) Brijesh G Shihora, Shweta D Patel, **Meonis A Pithawala (2013)**. 'PSORIASIS' - An immune disease in the research pipeline. Innovare Journal of Medical Science, **1(1)**: 1 – 6
- 3) Patel Unnati, Mistry Dhruti, **Pithawala Meonis (2013)**. 'Telomeric RNA': End chromatin architecture's munificent merchandise. International Journal of BioEngineering and Technology, **4 (1)**:1 – 8
- 4) Shraddha S Saha, Dhruti H Mistry and **Meonis A Pithawala (2013)**. "LUMINESCENCE": RADIANCE FOR FUTURE ERA. International Journal of Interdisciplinary Research and Reviews, **1 (4)**: 1 – 10
- 5) Sonal P. Vashi and **Meonis A. Pithawala (2013)**. Laser- An idyllic boon for biotechnology. BioTechnology : An Indian Journal, **7(7)**: 250 – 256
- 6) Namrata Boghani and **Meonis A Pithawala (2013)**. Anti- Angiogenic Property of Some Plants. Natural Products : An Indian Journal, **9(7)**: 294 – 297
- 7) Desai Chandani, Mistry Dhruti and **Meonis Pithawala (2013)**. Stem Cell Delivery Methods: Opportunities and Challenges. Research & Reviews: A Journal of Biotechnology, **3(3)**: 32 – 40
- 8) **Meonis Pithawala** and Ruchi Parmar **(2014)**. Haploidentical Stem Cell Transplantation: An Overview and Present Scenario, **3 (12)**: 618 - 634

Date: 10th March, 2015

Place: Tarsadi (Bardoli)

