

Dr. Ashutosh Halder
Professor & Head
Department of Reproductive Biology
(Updated on 12/01/2024)



Dr. Ashutosh Halder, Professor & Head, Reproductive Biology, AIIMS, Delhi is a well-known figure in the field of the Reproductive Sciences in India. His research primarily focuses on Reproductive Genetics, Reproductive Endocrinology, Reproductive Biology, Reproductive Oncology, Teratology, Prenatal and Preimplantation Genetics. He has published over 110 research papers, edited 4 books and authored many book chapters. He is a fellow of several prestigious academic bodies, including NAMS, IABS, SRBCE, etc. He has led several institutional and extramural research projects as principal investigator. He has mentored 12 PhD scholars. He is recognised as one of the leading experts in India in the area of Molecular Cytogenetics and has been instrumental in establishing a state-of-the-art Molecular Cytogenetics laboratory in SGPGIMS & AIIMS. He is on the editorial board of many journals and is a peer reviewer for numerous national and international journals. He is a CAC Member of Quality Council of India (formerly NABL) for Genetics, a Task Force Member and Assessor for Medical Genetics of the National Medical Commission of India (formerly MCI) and an expert member of several other national institutional committees.

Dr. Ashutosh Halder
Professor & Head

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MBBS (Cal), MD (OG, AIIMS), DNB (OG),
DM (Med Genet, SGPGI), FAMS, FRE, FIABS
Commonwealth Scholar, UCL (Fetal Medicine)
(Ex Asst. Prof., Med Genet, SGPGIMS, Lucknow)

Specialization

Reproductive Genetics
Reproductive Endocrinology
Reproductive toxicology
Reproductive Biology & Clinical Embryology
Teratology
Molecular Cytogenetics

Citations: >1550 (composite)

Google Scholar (1511)/Research Gate (1153)

h-index 21

i10-index 39

Awards

Dr. IC Verma Outstanding Research Award 2023 (Indian Academy of Medical Genetics)

Prof. Pera Govindarajulu Gold Medal Oration Award 2022 (Society for Reproductive Biology and Comparative Endocrinology)

Prof. NR Moudgal Memorial Oration Award 2021 (Indian Society for the Study of Reproduction and Fertility)

Dr. Subhash Mukherjee Oration Award 2019 (Endocrine Society of India)

Fellow of Reproduction & Endocrinology 2021 (Society for Reproductive Biology and Comparative Endocrinology)

Fellow of Indian Academy of Biomedical Sciences 2022

Fellow of National Academy of Medical Sciences, 2011

Member of National Academy of Medical Sciences, 2006

ICMR International Fellowship for Senior Biomedical Scientist 2008

Commonwealth scholarship 1994-1996

Honor in pathology

Class Assistant in Pathology
Silver medal in conference presentation (X4)

Training

Obstetrics & Gynecology (AIIMS/MD+SR)
Medical Genetics (SGPGIMS/DM)
Fetal Medicine (Fetal Medicine Unit, Dept of Obst & Gyne, UCL, London)
Molecular Cytogenetics
(Galton Laboratory & Hamilton Laboratory, UCL, London;
Human Genetics, Virchow Klinikum, Berlin;
Cytogenetics, University of Clermont Ferrand, France;
Human Genetics, University of Bari, Uniba Biologia, Italy)

Teaching Courses Guided

MSc in Reproductive Biology & Clinical Embryology (AIIMS; since 2016)
PhD in Reproductive Biology (AIIMS; since 2001)
DM in Med Genet (SGPGI; between 1997-2001)

Training Provided

Long Term: Molecular Cytogenetics, Clinical Embryology, Reproductive Endocrinology, etc
National Workshop: One-Week Workshop on Molecular Cytogenetics as Annual Event

Clinical/Laboratory Services Provided

Andrology (Primary Testicular failure), Malformation, Infertility, Reproductive Endocrine Disorders (PCOS, Hyperprolactinemia, POF, Primary Amenorrhoea, hypogonadotropic/ hypergonadotropic hypogonadism, etc)
Molecular Cytogenetics (FISH, microarray, etc)

Consultation/Research Areas

1. Polycystic ovary disease
2. Premature ovarian failure
3. Hyperprolactinemia
4. Testicular maturation arrest
5. Sertoli cell only syndrome
6. Spermiation defect
7. Microdeletion syndrome
8. Recurrent Pregnancy Failure
9. Recurrent Malformations
10. Disorder of sex development
11. Endometriosis
12. Familial Reproductive Cancers
13. Biological basis of skewed sex ratio
14. Ovarian epithelial cancer

Research Conducted

Completed:

1. Analysis for sperm aneuploidy of idiopathic oligozoospermic & teratospermic men
2. Evaluation of molecular basis of clinical aggressiveness in cervical carcinoma of young age
3. Molecular basis of clinical aggressiveness in papillary thyroid carcinoma
4. Role of Cytokines in Premature Ovarian Failure (collaborative)
5. Double blind randomized clinical trial of polyherbal preparation Ashokarista on post- menopausal women (collaborative)
6. Evaluation of anembryonic pregnancy and early missed abortion product for chromosomal aneuploidy and uniparental disomy by molecular method
7. Chromosome aneuploidy and mosaicism in preimplantation embryo (human)
8. Chromosome aneuploidy and mosaicism in preimplantation embryo (mouse)

9. Prevalence of 22q11 deletion syndrome in children with structural cardiac malformation: a tertiary care referral hospital-based study in Delhi
10. Molecular Basis of Multiple Myeloma (collaborative)
11. Rapid Aneuploidy Diagnosis by PRINS
12. Spermiation Defect
13. Genetic & Endocrine Evaluation of Primary Testicular Failure
14. Understanding Dynamics of Skewed Sex Ratio
15. Macroprolactinemia
16. Premature ovarian failure
17. Polycystic ovarian disease
18. Testicular maturation arrest
19. An investigation for sub-microscopic chromosomal imbalances and uniparental disomy by array comparative genomic hybridization (aCGH) in FISH negative clinically suspected 22q11.2 microdeletion syndromes
20. Mechanism for phenotypic heterogeneity/variability in 22q11.2 microdeletion syndrome (ICMR)
21. An investigation to find out genetic factors in idiopathic familial ovarian failure
22. Poly Cystic Ovarian Syndrome (PCOS): An investigation to find out reasons for discrepancy between hyperandrogenism (clinical) & hyperandrogenemia (biochemical) and underlying etiologic (epigenetic & genetic) factors

Ongoing:

1. An investigation on underlying mechanism of PCOS in association with endocrine disrupting chemicals (Bisphenol A and Advanced Glycation End products)
2. Integrative Analysis of Ovarian Cancer Transcriptome to Identify Biomarkers and Potential Molecular Targets for Genome-guided Targeted Therapy

Visions

To create reproductive science center for the followings:

- To develop reproductive genetics specialty
- To develop reproductive endocrinology specialty
- To develop NIPS facility
- To develop semen cryopreservation (semen banking & AID) facility
- To develop gamete, & gonad cryopreservation facility
- To develop clinical embryology branches
- To start courses (teaching/training) on Molecular Cytogenetics, Reproductive Genetics, Reproductive Endocrinology, Clinical Embryology & Cryopreservation, etc

Publications (Published Full Article)

PubMed indexed journals

As First/Corresponding Author*

1. **Halder A**, Sharma AK, Phadke SR, Jain A, Agarwal SS. OEIS Complex with Cranio-Facial anomalies: Defect of Blastogenesis? Am J Med Genetics. 1994; 53: 21-23. (IF 2.578; Cited by **39**) PMID: 7802030.
2. **Halder A***, Tutschek B. Analysis of meiotic segregation in human nondecondensed interphase spermatozoa by multicolor rapid direct FISH. Ind J Med Res. 1998; 107: 94-97. (IF 5.274; Cited by 11) PMID: 9540284.
3. **Halder A***, Pahi J, Pradhan M, Pandey A, Gujral R, Agarwal SS. Iniencephaly: a report of 19 cases. Ind Pediatrics. 1998; 35: 891 - 896. (IF 3.839; Cited by 15) PMID: 10216599.
4. **Halder A***, Pahi J, Sharma AK, Bhatia VL, Phadke RV, Gujral R & Agarwal SS. Osteodysplastic Primordial Dwarfism Type II with normal Mentation and delayed CNS Myelination. Am. J. Med. Genet. 1998; 80: 12-15. (IF 2.578; Cited by 12) PMID: 9800906.
5. **Halder A***, Park YK. Identification of the appropriate tissue from formalin fixed perinatal autopsy material for chromosomal ploidy detection by interphase FISH. Ind J Med Res. 1999; 110: 102-106. (IF 5.274; Cited by 09) PMID: 10612912.
6. **Halder A***, Pahi J, Chadda V and Agarwal SS. Sirenomelia Sequence associated with craniorachischisis totalis, limb reduction and primitive heart: a case report. Indian Pediatr. 2001; 38 (9): 1041-5. (IF 3.839; Cited by 19) PMID: 11568383.

7. Chaddha V, Agarwal S, Phadke SR, **Halder A***. Low Level of Mosaicism in Atypical Prader Willi Syndrome: Detection using Fluorescent In Situ Hybridization. *Indian Pediatrics* 2003; 40: 166-168. (IF 3.839; Cited by 10) PMID: 12626835.
8. **Halder A***, Panigrahi I & Pal L. Fowler like syndrome with extreme oligohydramnios & growth restriction and without muscle hypoplasia: first case from Indian subcontinent. *Ind Pediatr* 2003; 40: 418-423. (IF 3.839; Cited by 11) PMID: 12768045.
9. **Halder A***, Chaddha V, Agarwal S, Fauzdar A. Absence of sperm meiotic segregation error of chromosomes 1, 9, 12, 13, 16, 18, 21, X and Y in a case of 100 % necrozoospermia. *Asian J Androl.* 2003 Jun; 5(2): 163-166. (IF 3.05; Cited by 09) PMID: 12778330.
10. **Halder A***, Agarwal S, Pandey A. Iniencephaly and Chromosome Mosaicism: A Report of Two Cases. *Congenital Anomalies* 2005; 45: 102-105. (IF 1.3; Cited by 13) PMID: 16131369.
11. **Halder A***, Fauzdar A, Kumar A. Serum Inhibin B and Follicle Stimulating Hormone Levels as Markers in the Evaluation of Azoospermic Men: A Comparison. *Andrologia* 2005; 37: 173-179. (IF 2.53; Cited by 50) PMID: 16266395.
12. **Halder A***, Fauzdar A, Kabra M and Saxena A. Detection of 22q11.2 hemizygous deletion by interphase FISH in a patient with features of CATCH22 Syndrome. *Ind Pediatr.* 2005; 42: 1236-1239. (IF 3.839; Cited by 05) PMID: 16424562.
13. **Halder A***, Halder S, Fauzdar A. A Preliminary Investigation on Molecular Basis for Clinical Aggressiveness in Cervical Carcinoma by Comparative Genomic Hybridization and Conventional Fluorescent In-situ Hybridization. *Ind J of Med Res.* 2005; 122: 434-446. (IF 5.274; Cited by 06) PMID: 16456259.
14. **Halder A***, Fauzdar A. Extreme Skewing of Sex Ratio and Low Aneuploidy in Recurrent Early Missed Abortion. *Ind J Med Res* 2006; 124: 41-50. (IF 5.274; Cited by 37) PMID: 16926455.
15. **Halder A***. Skewed Sex Ratio in India. *Ind J Med Res* 2006; 124: 583-584. (IF 5.274; Cited by 10) PMID: 17213528.
16. **Halder A***, Jain M, Kabra M, Gupta N. Mosaic 22q11.2 microdeletion syndrome: diagnosis and clinical manifestations of two cases. *Molecular Cytogenetics* 2008; 1: 18. (IF 1.9; Cited by 38) PMID: 18691436.
17. Fauzdar A, Sharma RK, Kumar A, **Halder A***. A Preliminary Study on Chromosome Aneuploidy and Mosaicism in Early Preimplantation Human Embryo by Fluorescence In Situ Hybridization. *Ind J Med Res* 2008; 128 (3): 287-293. (IF 5.274; Cited by 04) PMID: 19052340.
18. Fauzdar A, **Halder A***, Kumar A. Effect of gonadotropins on chromosome aneuploidy, chromosome mosaicism and skewed sex ratio in mouse preimplantation embryos. *Ind J Med Res* 2009; 129: 669-675. (IF 5.274; Cited by 06) PMID: 19692747.
19. **Halder A***. Amniotic Band Syndrome and/or Limb Body Wall Complex: Split or Lump. *The Application of Clinical Genetics* 2010; 3: 7-15. (IF 0.51; Cited by 37) PMID: 23776348.
20. **Halder A***, Jain M, Chaudhary I, Kabra M. Prevalence of 22q11.2 microdeletion in 146 patients with cardiac malformation in a referral hospital of North India. *BMC Medical Genetics* 2010; 11: 101. (IF 2.02; Cited by 30) PMID: 20573211.
21. **Halder A***, Jain M, Chaudhary I and Varma B. Chromosome 22q11.2 microdeletion in monozygotic twins with discordant phenotype and deletion size. *Molecular Cytogenetics* 2012; 5:13 (JIF 1.9; Cited by 51) PMID: 22413934.
22. Jain M, **Halder A***. Sertoli cell only syndrome: Status of sertoli cell maturation and function. *Indian J Endocr Metab* 2012; 16: S514-515. (IF 0.42; Cited by 18) PMID: 23565483.
23. **Halder A***, Jain M, Chaudhary I. Rapid Detection of Chromosome X, Y, 13, 18 & 21 Aneuploidies by Primed In Situ Labeling/Synthesis (PRINS) Technique. *Ind J Hum Genet* 2013; 19 (1): 14-17. (IF 0.27; Cited by 04) PMID: 2390188.
24. Jain M, Mohan V, Chaudhary I, **Halder A***. Sertoli cell only syndrome and glaucoma in a SRY positive XX infertile male. *Journal of Clinical & Diagnostic Research* 2013; 7 (7): 1457-1459. (IF 1.15; Cited by 25) PMID: 23998093.
25. **Halder A***, Jain M, Chaudhary I, Gupta N and Kabra M. Fluorescence in-situ hybridization (FISH) using non-commercial probes in the diagnosis of clinically suspected microdeletion syndromes: an experience with 301 cases. *Ind J Med Res* 2013; 138: 135-142. (IF 5.274; Cited by 24) PMID: 24056568.

26. **Halder A***, Jain M, Chawdhary I, Kumar G, Das TK, Gupta YK. Dark Colored Semen in Non-obstructive Azoospermia: A Report of 4 Cases. *Andrologia* 2014; 46: 316–321. (IF 2.53; Cited by 07) PMID: 23445433.
27. **Halder A***, Jain M, Kalsi AP. SNP Microarray in FISH Negative Clinically Suspected 22q11.2 Microdeletion Syndrome. *Scientifica* 2016; 2016:18 pages (IF 3.2; Cited by 12) PMID: 27051557.
28. Jain M, Kalsi AK, Srivastava A, Gupta YK, **Halder A***. **High serum estradiol and heavy metals responsible for human spermiation defect.** *J Clin Diag and Res* 2016; 10(12): RC09-RC13. (IF 1.15; Cited by 11). PMID: 28208955.
29. **Halder A***, Kumar P, Jain M, Iyer VK. Copy number variations in testicular maturation arrest. *Andrology* 2017; 5 (3): 460-472. (IF 4.45; Cited by 26) PMID: 28217865.
30. **Halder A***, Kumar P, Jain M, Kalsi AP. Genomics: Tool to predict & prevent male infertility. *Front Biosci (Schol Ed)*. 2017; 9: 448-508. (IF 3.0; Cited by 17). PMID: 28410128.
31. Kumar P, Jain M, Kalsi AK, **Halder A***. Molecular characterization of a case of dicentric Y presented as non-obstructive azoospermia with testicular early maturation arrest. *Andrologia*, 2018; 50(2). (IF 2.53; Cited by 04). PMID: 28836280.
32. Kalsi AK, **Halder A***, Jain M, Chaturvedi PK, Sharma JB. Prevalence and Reproductive Manifestations of Macroprolactinemia. *Endocrine* 2019; 63(2): 332-340. (IF 3.8; Cited by 34) PMID: 30269265.
33. Kalsi AK, **Halder A***, Jain M, Chaturvedi PK, Mathew M, Sharma JB. Association of raised levels of IL-4 and anti-TPO with hyperprolactinemia. *Am J Reproductive Immunology* 2019; 81(3): e13085. (IF 3.78; Cited by 05) PMID: 30614113.
34. **Halder A***, Pandey D. CFTR gene variants in Indian CBAVD and its relevance in genetic counselling. *Ind J Med Res* 2020; 152: 535-537. (IF 5.274; Cited by 2). PMID: 34145091.
35. **Halder A***, Chaudhary I, Jain M. The sex ratio trajectory in mouse. *Reproductive Biology* 2021; 21 (3): 100514, 7 pages. (IF 2.09; Cited by 2). PMID: 34049115.
36. Sharma P, Jain M, **Halder A***. An investigation of steroid biosynthesis pathway genes in women with polycystic ovary syndrome. *J Hum Reprod Sci* 2022; 15: 240-9. (IF 1.39; Cited by 2) PMID: 36341008.
37. **Halder A***. Human Reproductive Genetics: Emerging Technologies and Clinical Applications. *Indian J Med Res* 2022; Dec 13. (IF 5.274; Cited by 1) PMID: 36510885.
38. **Halder A***, Kumar H, Sharma M, Jain M, Kalsi AK. Serum Anti-Müllerian hormone (AMH): most potential biomarker of PCOS from North India. *Ind J Med Res* 2023; 158 (4): 397-406. (IF 5.274; cited by) PMID: 37991331.
39. Sharma P, **Halder A***, Jain M, Tripathi M. Whole Exome Sequencing identifies rare variants in obesity- and hyperinsulinemia-related genes in PCOS. *J Hum Reprod Sci* 2023; 16 (4): 307-316. DOI: 10.4103/jhrs_12_23. (IF 1.39; cited by 0) PMID.

As Co-Author

1. Sharma AK, **Haldar A**, Phadke SR, et al. Post-mortem Radiography of perinatal deaths: an aid to Genetic Counselling. *Indian Pediatrics*. 1994; 31(6): 702-706. (IF 3.839; Cited by 01) PMID: 7896399.
2. Phadke SR, **Haldhar A**, Sharma AK, et al. GAPO Syndrome in a child without Dermal Hyaline Deposit. *Am. J. Med. Genetics*. 1994; 51: 191-193. (IF 2.578; Cited by 9) PMID: 7521121.
3. Sharma AK, **Haldar A**, Phadke SR, et al. Preaxial Brachydactyly with Abduction of Thumbs & Hallux Varus: a distinct entity. *Am. J. Med. Genetics*. 1994; 49(3): 274-277. PMID: 8209885 (IF 2.578; Cited 05) PMID: 8209885.
4. Sharma AK, **Haldar A**, Phadke SR, et al. Marshall-Smith Syndrome: further observations. *Indian Pediatrics*. 1994; 31(8): 1098-1100. (IF 3.839; Cited by 09) PMID: 7883370.
5. Sharma AK, Phadke SR, **Haldar A**, et al. Jarcho-Levin Syndrome: a case report. *Indian Pediatrics*. 1994; 31(6): 707-708. (IF 3.839; Cited by 07) PMID: 7896400.
6. Tutschek B, Sherlock J, **Halder A**, Delhanty J, Rodeck C, Adinolfi M. Isolation of Fetal Cells from transcervical samples by Micromanipulation: Molecular confirmation of their fetal origin and diagnosis of fetal aneuploidies. *Prenatal Diagnosis*. 1995; 15(10): 951-960. (IF 3.242; Cited by 48) PMID: 8587863.
7. Adinolfi M, Sherlock J, Tutschek B, **Halder A**, Delhanty J, Rodeck C. Detection of Fetal Cells in Transcervical Sample & Prenatal Diagnosis of Chromosomal abnormalities. *Prenatal Diagnosis*. 1995; 15(10): 943-950. (IF 3.242; Cited by 74) PMID: 8587862.

8. Agarwal S, Kishore R, **Halder A**, et al. Outcome of pregnancy in women with Recurrent Spontaneous Abortion following Immunotherapy with Allogenic Lymphocytes. *Human Reproduction*. 1995; 10(9): 2280-2284. (IF **6.353**; Cited by 18) PMID: 8530652.
9. Kishore R, Agarwal S, **Halder A**, et al. HLA sharing, Antipaternal Cytotoxic Antibodies & MLR Blocking Factors in women with Recurrent Abortions. *J Obstet Gynaecol Res*. 1996; 22(2): 177-183. (IF 1.7; Cited by **49**) PMID: 8697349.
10. Sherlock J, **Halder A**, Tutschek B, Rodeck C, Adinolfi M. Prenatal detection of fetal aneuploidies using transcervical cell samples. *J Med Genet*. 1997; 34: 302-305. (IF **5.94**; Cited by **49**) PMID: 9138153.
11. Jauniaux E, **Halder A**, Partington C. A case of partial mole associated with trisomy 13. *Ultrasound Obstet Gynaecol*. 1998; 11(1): 62-64. (IF **8.68**; Cited by **29**) PMID: 9511199.
12. Pahi J, Phadke SR, **Halder A**, Agarwal SS, et al. Does autopsy of antenatally diagnosed malformed fetuses aid genetic counseling? *The National Medical Journal of India*. 1998; 11(4): 169-170. (IF 0.56; Cited by 18) PMID: 9808972.
13. Yadav N, Sumod K, Kumar S, Jain M, **Halder A**, Saxena R, Mukhopadhyay A. Therapeutic effect of bone marrow-derived liver cells in phenotypic correction of murine hemophilia A. *Blood*; 2009; 114: 4552-4561. (IF **20.3**; Cited by **41**) PMID: 19752394.
14. Shukla B, Agarwal S, Suri V, Pathak P, Sharma MC, Gupta D, Sharma BS, Suri A, **Halder A**, Sarkar C. Assessment of 1p/19q status by fluorescence in situ hybridization assay: A comparative study in oligodendroglial, mixed oligoastrocytic and astrocytic tumors. *Neurol India* 2009; 57: 559-566. (IF **1.67**; Cited by 16) PMID: 19934553.
15. Sharma P, Gupta N, Roychowdhury M, Phadke SR, Sapra S, **Halder A**, Ghosh M and Kabra M. Williams-Beuren syndrome: Delineation of clinical phenotype and diagnostic utility of MLPA: Experience of 43 patients from a tertiary care centre in India. *Cytogenetic and Genome Research* 2015; 146 (3): 187-194. (IF 1.7; Cited by 12) PMID: 26352091.
16. Sharma A, **Halder A**, Kaushal S, Jain M. Intra-individual genomic variation study in tissues (Blood vs. Testis) through SNPs Microarray: Case report in two idiopathic Sertoli cell only Syndrome patients (SCOS). *Journal of Reproduction & Infertility* 2020; 21(4):298-307. (IF 0.5; Cited by 2) PMID: 33209747.
17. Jain P, Wadhwa N, Joshi MK, Jain M, **Halder A**, Mishra K. Cellular mesenchymal epithelial transition (C-MET) gene copy number variation in gastric adenocarcinoma: A pilot search for new marker for targeted therapy in HER-2/neu resistance. *Indian J Pathol Microbiol*. 2020; 63(1): 86-89. (IF 0.77; Cited by 2) PMID: 32031129.
18. Jasrotia S, Gupta R, Sharma A, **Halder A**, Kumar L. Cytokine profile in multiple myeloma. *Cytokine* 2020; 136: 155271. (IF **3.93**; Cited by **33**) PMID: 3296474.
19. Singh M, Jain M, Bose S, **Halder A**, Nag T, Amit Dinda A, Mohanty S. 22(R)-hydroxycholesterol for dopaminergic neuronal specification of MSCs and amelioration of Parkinsonian symptoms in rats. *Cell Death Discovery*. 2021;7:13-17. (IF **7.11**; Cited by 06). PMID: 33454721.
20. Aggarwal D, Wadhwa N, Arora T, Rajaram S, Diwaker P, **Halder A**, Jain M, Mishra K. Human telomerase RNA component (hTERC) gene expression and chromosome 7 ploidy correlate positively with histological grade of cervical intraepithelial neoplasia. *Cytopathology*. 2021;32(5):631-639. IF 1.28; Cited by 01. PMID: 33848025
21. Sharma A, Jain M, **Halder A**, Kaushal S. Identification of Genomic imbalances (CNVs as well as LOH) in Sertoli Cell Only Syndrome cases through Cytoscan Microarray. *Gene* 2021;30;801:145851 (JIF **3.91**; Cited by 6) PMID: 34274474.
22. Kaushik N, Rastogi S, Verma S, Pandey D, **Halder A**, Mukhopadhyay A, Kumar N. Transcriptome analysis of insulin signaling associated transcription factors in *C. elegans* reveal their genome-wide target genes specificity and complexity. *International Journal of Molecular Sciences* 2021; 22: 12462 (JIF **5.6**; Cited by 1). PMID: 34830338.
23. Srinivasan P, Meena JP, Gupta AK, Halder A, Kapil A, Pandey RM, Seth R. Safety of Procalcitonin Guided Early Discontinuation of Antibiotic Therapy among Children Receiving Cancer Chemotherapy and Having Low-Risk Febrile Neutropenia: A Randomized Feasibility Trial (ProFenC Study). *Pediatr Hematol Oncol*. 2023 Sep 1:1-14. doi: 10.1080/08880018.2023.2249940. PMID: 37655541. (JIF 1.17; Cited by 0)
24. Sharma M, Sharma Y, **Halder A**, Mahey R; Kumar N. Effect of human sperm vitrification on phospholipase ζ expression. *Cryobiology* (2023; submitted)

Other (non-PubMed) Journals

As First/Corresponding Author

1. **Halder A***. Trisomy 21 beyond 1st trimester: are they all mosaic? Evidence to support. Asian J Obs & Gynae Practice, 2002; 6 (2): 30-34. (IF NA; Cited by 01)
2. **Halder A***, Agarwal S & Chaddha V. Genetic counseling in obstetric practice. Obstetrics & Gynecology Today 2002; VII (6): 310-318 (IF NA; Cited by 01).
3. Agarwal S, Chadda V, Ram Sharan, **Halder A***. Rapid prenatal diagnosis of trisomy 18 by interphase FISH. Asian Journal of Obs & Gynae Practice 2003; 7 (1): 14–15 & 23. (IF NA; Cited 03)
4. **Halder A***, Halder S, Fauzdar A, Kumar A. Molecular approaches of chromosome analysis: an overview. Proc. Indian Nat. Sci. Acad. 2004; B70 (2): 153-221. (IF NA; Cited by 05)
5. **Halder A***. Placental chimerism in early human pregnancy. Ind J of Hum Genet 2005; 11 (2): 84-88. (IF 0.27; Cited by 05)
6. **Halder A***. Premature greying of hairs, premature ageing and predisposition to cancer in Jajjal, Punjab: a preliminary observation. Journal of Clinical & Diagnostic Research 2007; 6: 577-580 (IF 1.15; Cited by 25)
7. **Halder A***, Gupta RK. Male like external genitalia with epididymis in a case of 46,XX disorder of sex development due to congenital adrenal hyperplasia. Journal of Research in Medical Sciences 2008; 13(3): 141-145. (IF 1.6; Cited by 02)
8. **Halder A***. 46, XY Disorder of Sex Development with Mullerian Ducts Remnants. Journal of Clinical & Diagnostic Research 2010; 4: 2169-2174 (IF 1.15; Cited by 04)
9. **Halder A***. Advances in Cytogenetics (editorial). JBR Journal of Clinical Diagnosis and Research. 2013; 16:e101.doi:10.4172/jcdr.1000e101 Volume1 Issue1 1000e101. (IF 0.845; Cited by 03)
10. **Halder A***. Disorder of Sex Development: spectrum of disorder in a referral tertiary care hospital in Northern India. The Global Journal of Human Genetics & Gene Therapy. 2013; 1 (2): 77-89 (IF NA; Cited by 05)
11. **Halder A***. Cytogenetics to Cytogenomics: transition from Chromosome to DNA sequence. The Global Journal of Human Genetics & Gene Therapy. 2013; 1 (2): 90-104 (IF NA; Cited by 3)
12. **Halder A***. Lethal Developmental Defects: An Overview. Open Journal of Obstetrics and Gynecology 2014; 4: 1006-1036 (IF 0.59; Cited by 03)
13. Chaudhary I, Jain M, **Halder A***. Sperm sex ratio (X:Y ratio) and its variations. Austin J Reprod Med Infertil. 2014;1(1): 7 (arjm-v1-id1003) (IF 1.9; Cited by 68)
14. **Halder A***. Canceromics and P3 medicine (editorial). JBR J Clin Diagn Res 2015; 3: 1 (1000e104). 2 pages (IF 0.845; Cited by 01)
15. **Halder A***, Jain M and Kumar P. Primary Testicular Failure: An Overview. JBR J Clin Diagn Res 2015; 3: 1 (1000e105). 5 pages (IF 0.845; Cited by 08)
16. **Halder A***. Reproductive Genetic Counselling in Genomic Era. EC Gynaecology 2015; 2 (1): 132-148. (IF 1.6; Cited by 04)
17. **Halder A***. Reproductive Genetics (editorial). JBR Journal of Clinical Diagnosis and Research 2016; 4: 106 (2 pages). (IF 0.845; Cited by 02)
18. **Halder A***. Approach to Prenatal Fetal Malformations. EC Gynaecology 2016; 3 (3): 294-307. (IF 1.6; Cited by 02)
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