

CHAPTER 32

MEDICAL SCIENCES BIOCHEMISTRY

Doctoral Theses

416. YADAV (Chandra Shekhar)
Candidate Genes and Their Response to Environmental Agents in the Etiology of Hypospadias : A Toxicogenomic Approach.
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Abstract

Studies the role of organochlorine pesticides and polymorphism of xenoestrogen metabolic genes in development of hypospadias. An attempt has been made to study the analysis of organochlorine pesticide levels in Indian population with reference to child with hypospadias. Investigates the frequencies of polymorphic alleles of CYP1A1, CYP17, CYP19, GSTT1 and GSTM1 genes in hypospadias cases. Evaluate the role of the estrogen receptor genes - ESR1 and ESR2, in the hypospadias cases, measure the levels of testosterone, β -estradiol, LH, FSH in the hypospadias cases and co-ralation between organochlorine pesticides, hormones levels, polymorphisms in these candidate genes with risk of hypospadias.

Contents

1. Introduction. 2. Review of literature. 3. Materials and method. 4. Result. 5. Discussion. 6. Summary and conclusion. 7. References. 8. Annexures.