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Disruption of aromatase homeostasis as the cause of a multiplicity of ailments: A comprehensive review**Short running title: Pivotal enzyme aromatase****Seema Patel^{1*}**¹Bioinformatics and Medical Informatics Research Center, San Diego State University, 92182, San Diego, CA USA***Corresponding author and address for correspondence:**

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Highlights

- ❖ Aromatase, a cytochromes P450 enzyme converts androgens (C19) into estrogens (C18).
- ❖ Both hyper and hypo level of this enzyme initiates a number of health conditions and diseases.
- ❖ Among others, breast cancer, prostate cancer, polycystic ovary syndrome, endometriosis, osteoporosis, ovarian cancer, gastric cancer, pituitary cancer, Alzheimer's disease, schizophrenia, male hypogonadism etc. have been linked to aromatase perturbation.
- ❖ Several drugs, personal consumer products and pesticides can activate and inhibit this enzyme.
- ❖ Better understanding of this enzyme can help in dealing with a number of diseases.
- ❖ This review offers critical insights in this regard.

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