

List of Abbreviations

AAS : Atomic absorption spectroscopy	LDH- Lactate dehydrogenase
ACC: Acetyl-CoA carboxylase	LDL: Low Density lipoprotein
AMH: Anti-mullerian hormone	LH: Luteinizing Hormone
ART: Assisted Reproductive Technologies	MAPK: Mitogen-activated protein kinase
BMI : Body Mass Index	mTOR: Mammalian target of rapamycin
BMD : Benchmark dose	OGTT: Oral Glucose Tolerance Test
cAMP: Cyclic Adenosine Monophosphate	OGTT: Oral glucose tolerance test
Cd: Cadmium	PI(3) K: Phosphatidylinositol 3-kinase
CYP11A1: cholesterol side chain cleavage enzyme	PKA/B/C: Protein kinase A/B/C
CYP19A1: Aromatase	PPAR- γ : Peroxisome proliferator-activated receptor gamma
CC: Clomiphene citrate	PMSG: Pregnant mare serum gonadotropin
Dexa: Dexamethasone	PCOS : Polycystic Ovarian Syndrome
EDC: Endocrine Disrupting Chemicals	PCOS-IR : Polycystic Ovarian Syndrome having insulin resistance
EL- <i>Enicostemma littorale</i>	PCOS-NIR : Polycystic Ovarian Syndrome not having insulin resistance
ER: Endoplasmic Reticulum	qPCR: quantitative PCR
ERK: Extracellular-signal-regulated Kinases	SREBP: Sterol Regulatory Element Binding Protein
FFA: Free Fatty Acid	StAR : Steroidogenic Acute Regulatory Protein
FITC: Fluorescein isothiocyanate	SHBG: Sex hormone binding globulin
FIRI: Fasting Insulin Resistance Index	TAG: Tri acyl Glycerol
FF: Follicular Fluid	TG: Triglycerides
FSH: Follicle Stimulating Hormone	TNF: Tumor Necrosis Factor
GnRH: Gonadotropin Releasing Hormone	WHO: World Health Organization
hCG: Human chorionic gonadotropin	3 β -HSD: 3 β -hydroxysteroid dehydrogenase
HPA-axis: Hypothalamo-pituitary-adrenal axis	17 β -HSD: 17 β -hydroxysteroid dehydrogenase
HbA1C: Glycosylated hemoglobin	
hLGC: Human luteinized granulosa cell	
HBSS : Hanks Balanced Salt Solution	
IRS: Insulin receptor substrate	
IR : Insulin Resistance	
INSR- β : Insulin receptor - β	
IVF : In vitro fertilization	
IGF: Insulin like growth factor	
IGF-R: Insulin like growth factor- receptor	
kDa: Kilodaltons	
