Oestrogen Metabolism							
CYP17A1	rs743572	G	Α	Α		Typical expression	
						Slightly lower levels of DHEAS - more bioavailable DHEA, risk of PCOS , high	
SULT2A1	rs182420	С	Т	С	Heterozygous	testosterone & oestrogen	
SULT2A1	rs2637125	Α	###	###			
SULT2A1	rs2910397	Т	Т	С	Heterozygous	Slightly lower DHEAS to DHEA ratio - more bioavailable DHEA, risk of PCOS , high testosterone & oestrogen	
SULT2A1	rs182420	С	Т	С	Heterozygous	Slightly reduced enzyme activity and may play a role in inherited adrenal androgen excess in PCOS	
CYP19A1	rs4646	А	С	С		Most common, typical, higher oestrogen levels	
CYP19A1	rs700518	Т	С	С		Lower oestrogen levels in men	
CYP3A4	rs2740574	С	С	С	Heterozygous	Typical expression	
CYP1A1	rs1048943	С	Т	Т		Typical expression	
CYP1B1	rs1056836					Intermediate CYP1B1, intermediate hot flashes & menopause symptoms, especially in smokers. Combined with COMT issues, increased risk of breast	
		G	С	G	Heterozygous	cancer & prostate cancer	
CYP1B1	rs1056827	Α	###	###			
GSTP1	rs1695	G	A	A		Typical expression	
GSTM1	rs366631	А	###	###			
NQ01	rs1800566	А	G	G		Typical expression	
UGT1A1	rs2070959	G	G	G	Homozygous	Decreased detoxification/ inactivation of oestrogen, decreased excretion	
UGT1A1	rs4148324	G	Т	Т		Typical expression	
SULT1A1	rs1042028	Т	###	###			
SULT1A1	rs1042157	Α	###	###			
SULT1E1	rs3736599	Т	###	###			

Gene	SNP	Risk allele	Patient Results			Interpretation
COMT						<u> </u>
COMT	rs4680	А	А	G	Heterozygous	Slightly lower COMT activity (most common genotype in Caucasians), intermediate risk of hot flashes, especially in smokers, intermediate risk of breast cancer
COMT	rs4633	Т	Т	С	Heterozygous	Slightly lower (slow) COMT activity
COMT	rs6267	Т	G	G		Typical expression
COMT	rs165599	А	Α	G	Heterozygous	Increased risk of anxiety, especially in females and in combination with rs4680 A/A
MTHFR CC77T	***1801133					MTHFR enzyme function decreased by 70%-80%, increased risk of high blood
C677T	rs1801133	Α	Α	Α	Homozygous	pressure, especially with riboflavin deficiency
A1298C	rs1801131	G	Т	Т		Typical expression
MTHFR	rs2274976	Т	С	С		Typical expression
MTHFR	rs9651118	С	Т	С	Heterozygous	[Benefit] Decreased risk of liver cancer, slower cognitive decline in the elderly, lower homocysteine and type 2 diabetes
MTHFR	rs13306560	Т	С	С		Typical expression, no benefit
MTHFR	rs17367504	G	Α	Α		Typical expression, no benefit
MTHFR	rs4846049	G	###	###		

