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Lina Schiffer, Wiebke Arlt, Karl-Heinz Storbeck

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Intracrine androgen biosynthesis, metabolism and action revisited

Lina Schiffer ¹, Wiebke Arlt ^{1,*}, Karl-Heinz Storbeck ^{1,2}

¹ Institute of Metabolism and Systems Research, University of Birmingham, Edgbaston,

Birmingham, B15 2TT, UK; l.schiffer@bham.ac.uk; w.arlt@bham.ac.uk

² Department of Biochemistry, Stellenbosch University, Stellenbosch, 7600, South Africa;

storbeck@sun.ac.za

* Corresponding author

Abbreviations: 11KA4, 11-keto-androstenedione; 11KDHT, 11-keto-5α-dihydrotestosterone; 11KT, 11-keto-testosterone; 11OHA4, 11β-hydroxy-androstenedione; 11OHDHT, 11β-hydroxy-5α-dihydrotestosterone; 11OHT, 11β-hydroxy-testosterone; 17αHP, 5α-pregnane-17α-ol-3,20one; 17OHPROG, 17α-hydroxy-progesterone; 3α-adiol, 5α-androstan-3α,17β-diol; 5α-dione, 5αandrostane-3,17-dione; 5-diol, androst-5-ene-3β,17β-diol; A4, androstenedione (androst-4-ene-3,17-dione); AKR, aldo-keto reductase; AR, androgen receptor; AST, androsterone (5aandrostan-3α-ol-17-one); CHOL, cholesterol; CRPC, castration resistant prostate cancer; CYP, cytochrome P450; DHEA, dehydroepiandrosterone (androst-5-ene-3β-ol-17-one); DHEAS, dehydroepiandrosterone sulfate; EpiAST, 5α-androstan-3β-ol-17-one ; EpiT, epitestosterone (17α-hydroxy-testosterone, androst-4-ene-17α-ol-3-one); E1, estrone; E1S, estrone sulfate; E2, estradiol ; ETIO, etiochonanolone (5 β -androstan-3 α -ol-17-one); DHT, 5 α -dihydrotestosterone (5α-androstan-17β-ol-3-one); HSD, hydroxysteroid dehydrogenase; OATP, organic aniontransporting polypeptide; PAPS, 3'-phospho-adenosine-5'-phosphosulfate; PCOS, polycystic syndrome; Pdiol, 5α-pregnane-3α,17α-diol-20-one; PORD, cytochrome P450 oxidoreductase deficiency; PREG, pregnenolone; PROG, progesterone; StAR, steroidogenic acute regulatory protein; SHBG, sex hormone-binding globulin; STS, steroid sulfatase; SULT, sulfotransferase; T, testosterone (androst-4-ene-17β-ol-3-one); UGT, uridine diphosphateglucuronosyl transferase

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