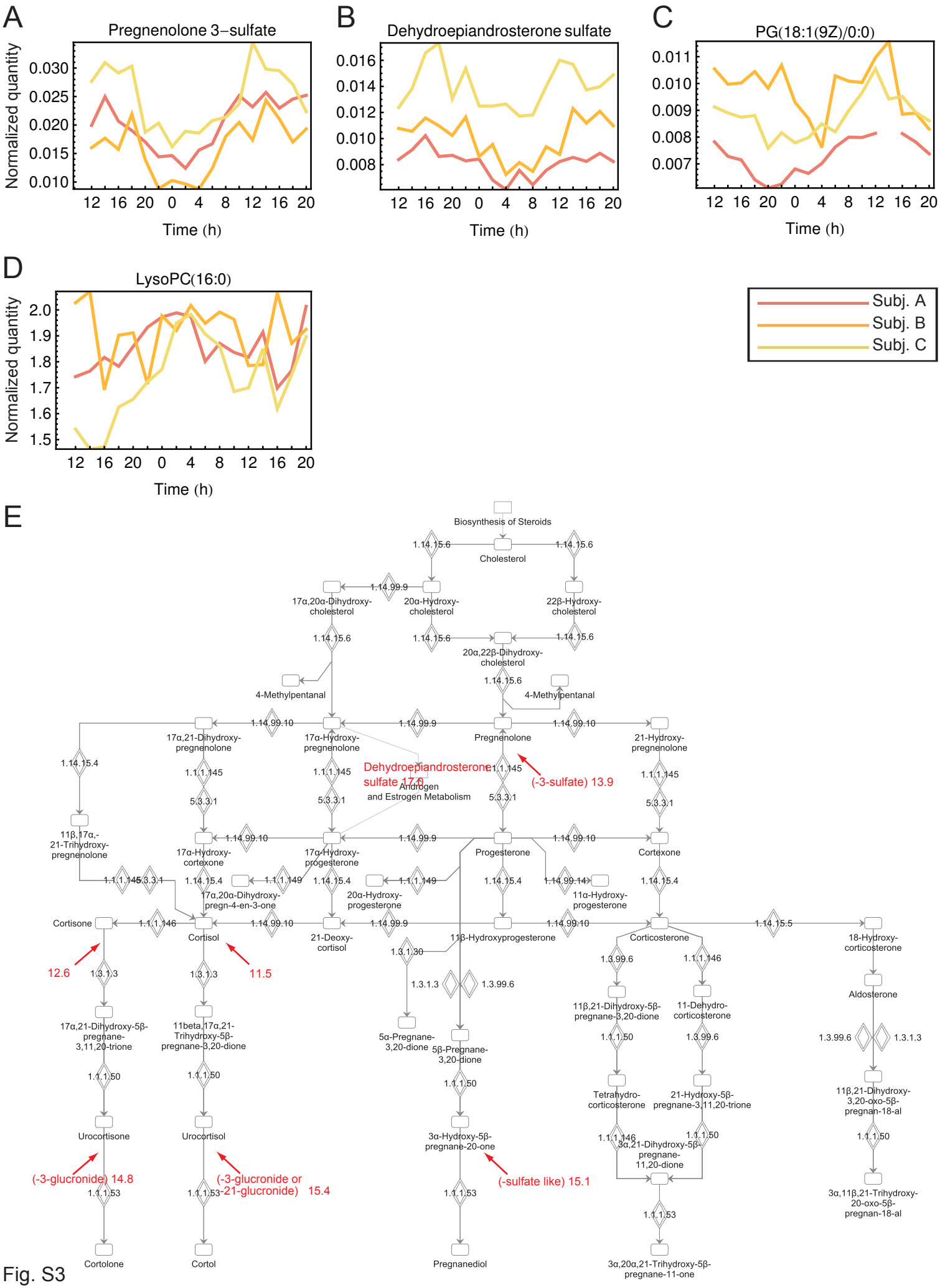
A
Pregnenolone 3−sulfate
Normalized quantity
0.030
0.025
0.020
0.015
0.010
12 16 20 0 4 8 12 16 20
Time (h)
B
Dehydroepiandrosterone sulfate
0.016
0.014
0.012
0.010
0.008
12 16 20 0 4 8 12 16 20
Time (h)
C
PG(18:1(9Z)/0:0)
0.011
0.010
0.009
0.008
0.007
12 16 20 0 4 8 12 16 20
Time (h)
D
LysoPC(16:0)
Normalized quantity
2.0
1.9
1.8
1.7
1.6
1.5
12 16 20 0 4 8 12 16 20
Time (h)
Subj. A
Subj. B
Subj. C
E
Biosynthesis of Steroids
Cholesterol
17α,20α-Dihydroxy-cholesterol
20α-Hydroxy-cholesterol
22β-Hydroxy-cholesterol
20α,22β-Dihydroxy-cholesterol
4-Methylpentanal
17α,21-Dihydroxy-pregnenolone
17α-Hydroxy-pregnenolone
Pregnenolone
21-Hydroxy-pregnenolone
Androgen and Estrogen Metabolism
Dehydroepiandrosterone sulfate 17.6
(-3-sulfate) 13.9
11β,17α,-21-Trihydroxy-pregnenolone
17α-Hydroxy-cortexone
17α-Hydroxy-progesterone
Progesterone
Cortexone
17α,20α-Dihydroxy-pregn-4-en-3-one
20α-Hydroxy-progesterone
11α-Hydroxy-progesterone
Cortisone
Cortisol
21-Deoxy-cortisol
11β-Hydroxyprogesterone
Corticosterone
18-Hydroxy-corticosterone
12.6
11.5
17α,21-Dihydroxy-5β-pregnane-3,11,20-trione
11beta,17α,21-Trihydroxy-5β-pregnane-3,20-dione
5α-Pregnane-3,20-dione
5β-Pregnane-3,20-dione
11β,21-Dihydroxy-5β-pregnane-3,20-dione
11-Dehydro-corticosterone
Aldosterone
Urocortisone
Urocortisol
3α-Hydroxy-5β-pregnane-20-one
Tetrahydro-corticosterone
21-Hydroxy-5β-pregnane-3,11,20-trione
11β,21-Dihydroxy-3,20-oxo-5β-pregnan-18-al
(-3-glucronide) 14.8
(-3-glucronide or 21-glucronide) 15.4
(-sulfate like) 15.1
3α,21-Dihydroxy-5β-pregnane-11,20-dione
3α,11β,21-Trihydroxy-20-oxo-5β-pregnan-18-al
Cortolone
Cortol
Pregnanediol
3α,20α,21-Trihydroxy-5β-pregnane-11-one

Fig. S3