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Article

Characterisation of 3D Bioprinted Human Breast Cancer Model for In Vitro Drug and Metabolic Targeting

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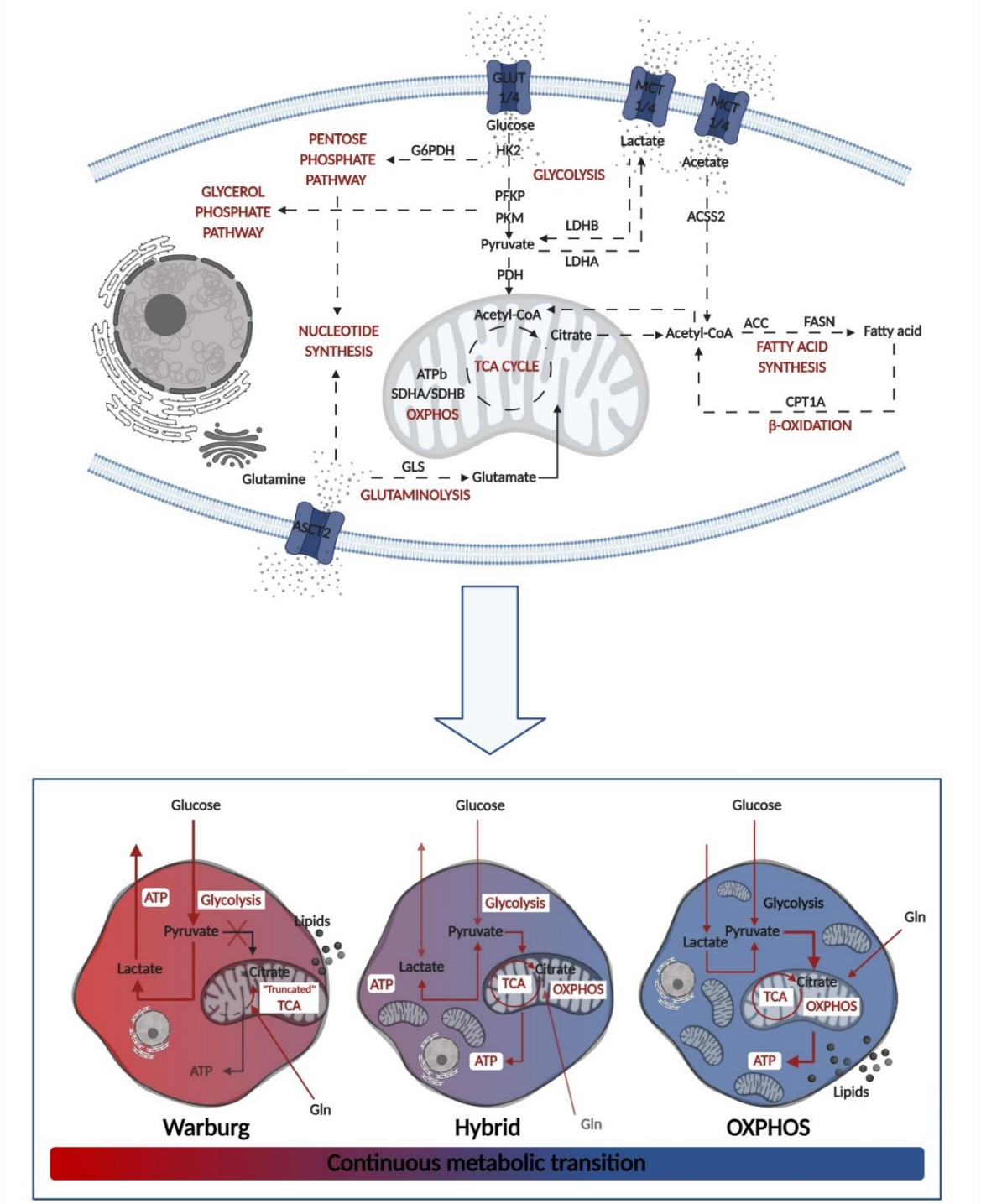
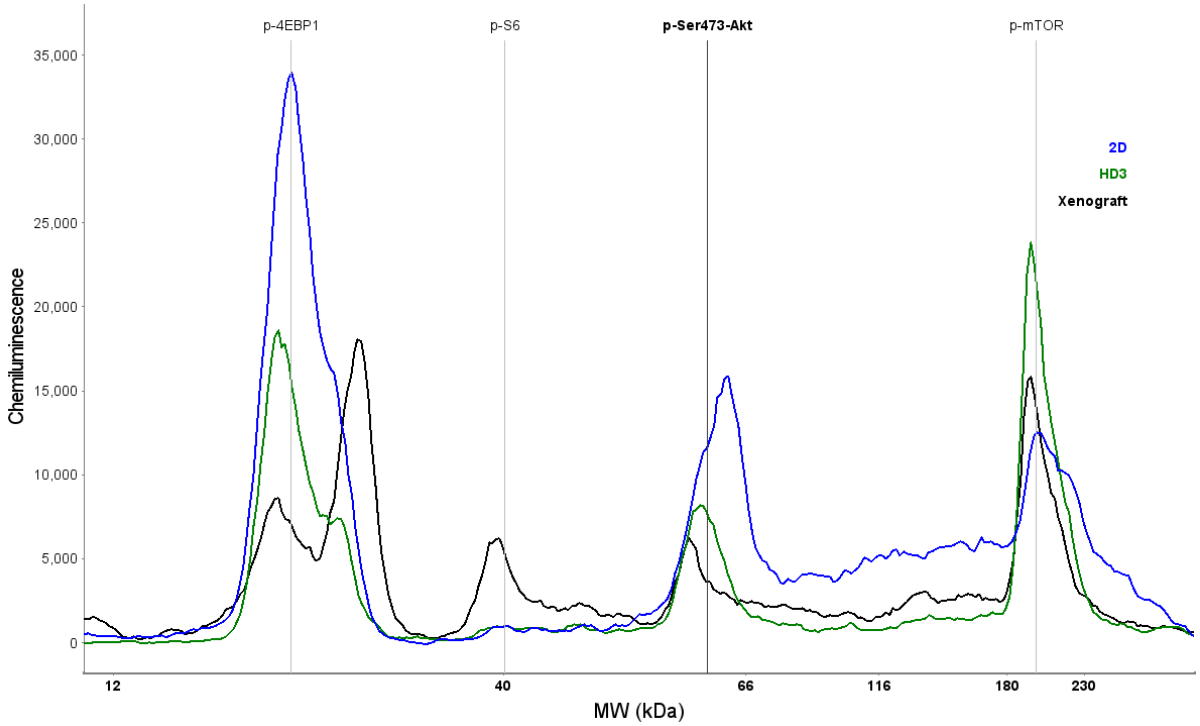


Figure S1. Schematic illustration of the studied metabolic enzymes and pathways. Alterations in cellular metabolism can initiate various metabolic phenotypes. A schematic simplified figure of the main metabolic pathways (the main pathways were indicated with red letters) and the studied elements of these were also highlighted. At the lower part of the figure, the simplified presentation of different metabolic phenotypes was shown. The metabolic rewiring contributes to continuous transition among Warburg, hybrid, and OXPHOS metabolic phenotypes in tumor tissues. The included figures were created with BioRender (https:// biorender.com) covered by the institutional license of the Department of Pathology and Experimental Cancer Research, Semmelweis University.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p-S6
p-Ser473-Akt
p-mTOR
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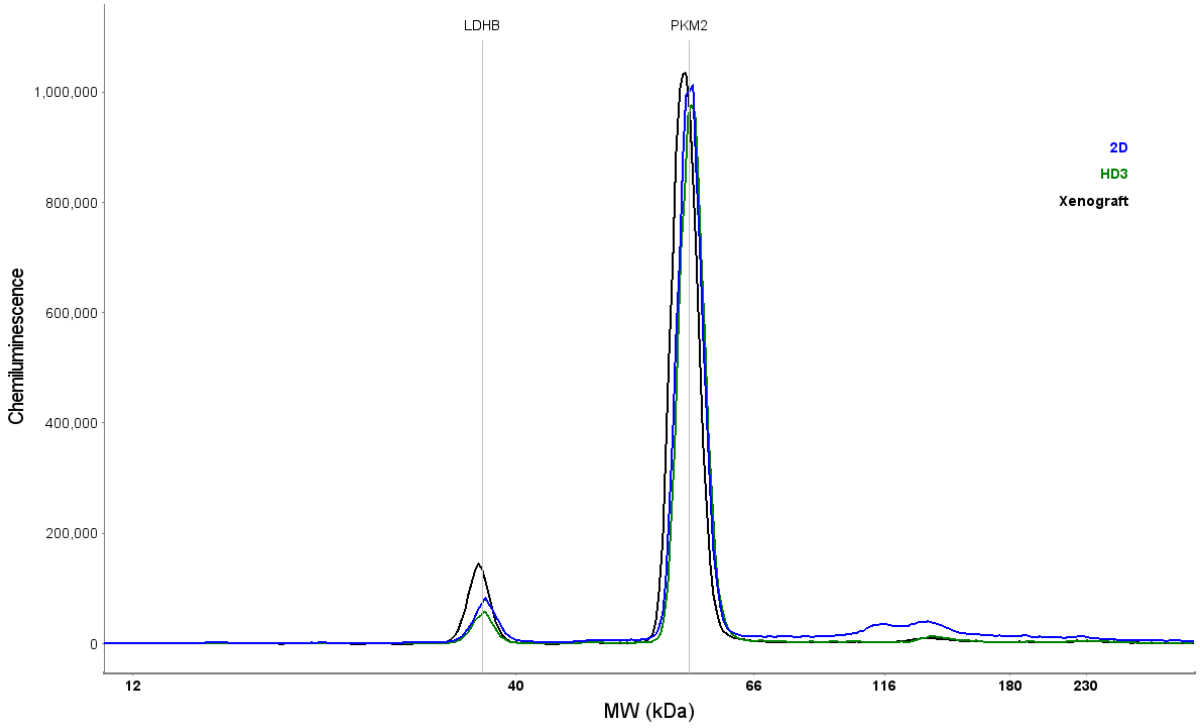
30,000
25,000
20,000
15,000
10,000
5,000
0
Chemiluminescence
2D
HD3
Xenograft
12
40
66
116
180
230
MW (kDa)


LDHB
PKM2
1,000,000
800,000
600,000
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0
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2D
HD3
Xenograft
12
40
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MW (kDa)

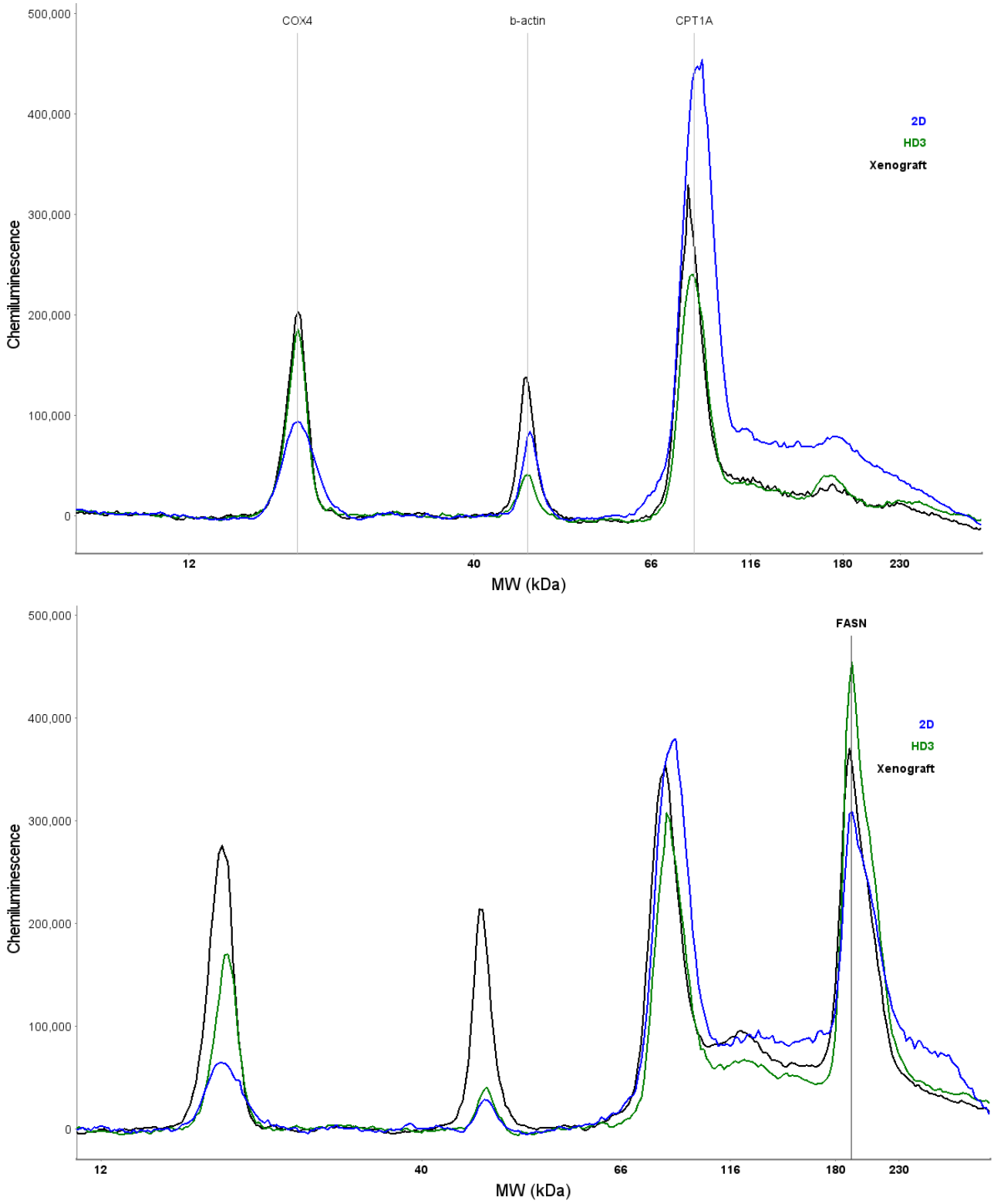

Figure S2. Additional information to WES Simple analyses.