Supplementary files



Supplemental Figure 1 Mean (\pm SEM) changes from baseline of EGP, after ingestion of 138 g ¹³C-enriched control bread (\bullet), 119 g ¹³C-enriched flat bread (\blacksquare), and 127 g ¹³C-enriched pasta (Δ) in healthy men (n=10). EGP, endogenous glucose production.



Supplemental Figure 2 Mean (\pm SEM) changes from baseline in plasma glucagon concentrations, after ingestion of 138 g ¹³C-enriched control bread (•), 119 g ¹³C-enriched flat bread (•), and 127 g ¹³C-enriched pasta (Δ) in healthy men (n=10).



Supplemental Figure 3 Mean (\pm SEM) changes from baseline in subjective rating of hunger using VAS after ingestion of 138 g ¹³C-enriched control bread (•), 119 g ¹³C-enriched flat bread (•), and 127 g ¹³C-enriched pasta (Δ) in healthy men (n=10). VAS, visual analogue scale.

	Average cell wall thickness (µm)	Average cell diameter (µm)	Porosity (%)
Control bread	143 ± 7ª	900± 143ª	83± 3ª
Flat bread	278 ± 22 ^b	476 ± 68 ^b	47 ± 3 ^b
Pasta	188 ± 36°	25 ± 1°	3 ± 1°

Supplemental Table 1 Image analysis parameters from 3D XRT data¹

¹Data are presented as means \pm SD, n=3. Values followed by different letters in a column are significantly different (P < 0.05; LSD test). XRT, X-ray microtomography

Supplemental Table 2 Post hoc analyses of insulin sensitivity after ingestion of 138 g ¹³Cenriched control bread, 119 g ¹³C-enriched flat bread and 127 g ¹³C-enriched pasta (uncooked weight) using GCR and insulin data¹

	0-2h	0-3h	0-6h
СВ	11.0ª	18.4 ^{a,b}	26.3ª
FB	11.4 ^a	19.9ª	29.4ª
ΡΑ	9.5ª	15.6 ^ь	26.7ª

¹A higher relative value indicates increased insulin sensitivity. Values followed by different letters in a column are significantly different (P < 0.05; t-test). CB, control bread; FB, flat bread; PA, pasta.