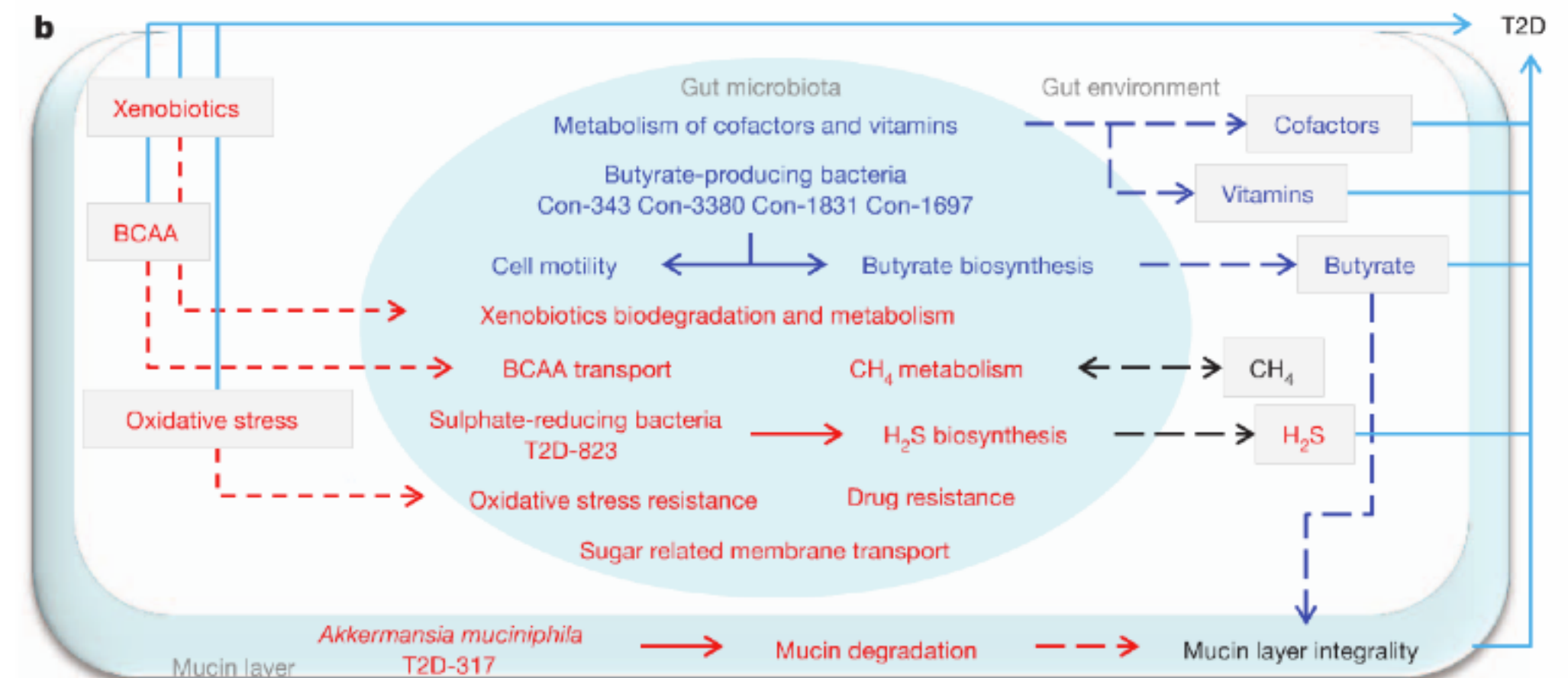
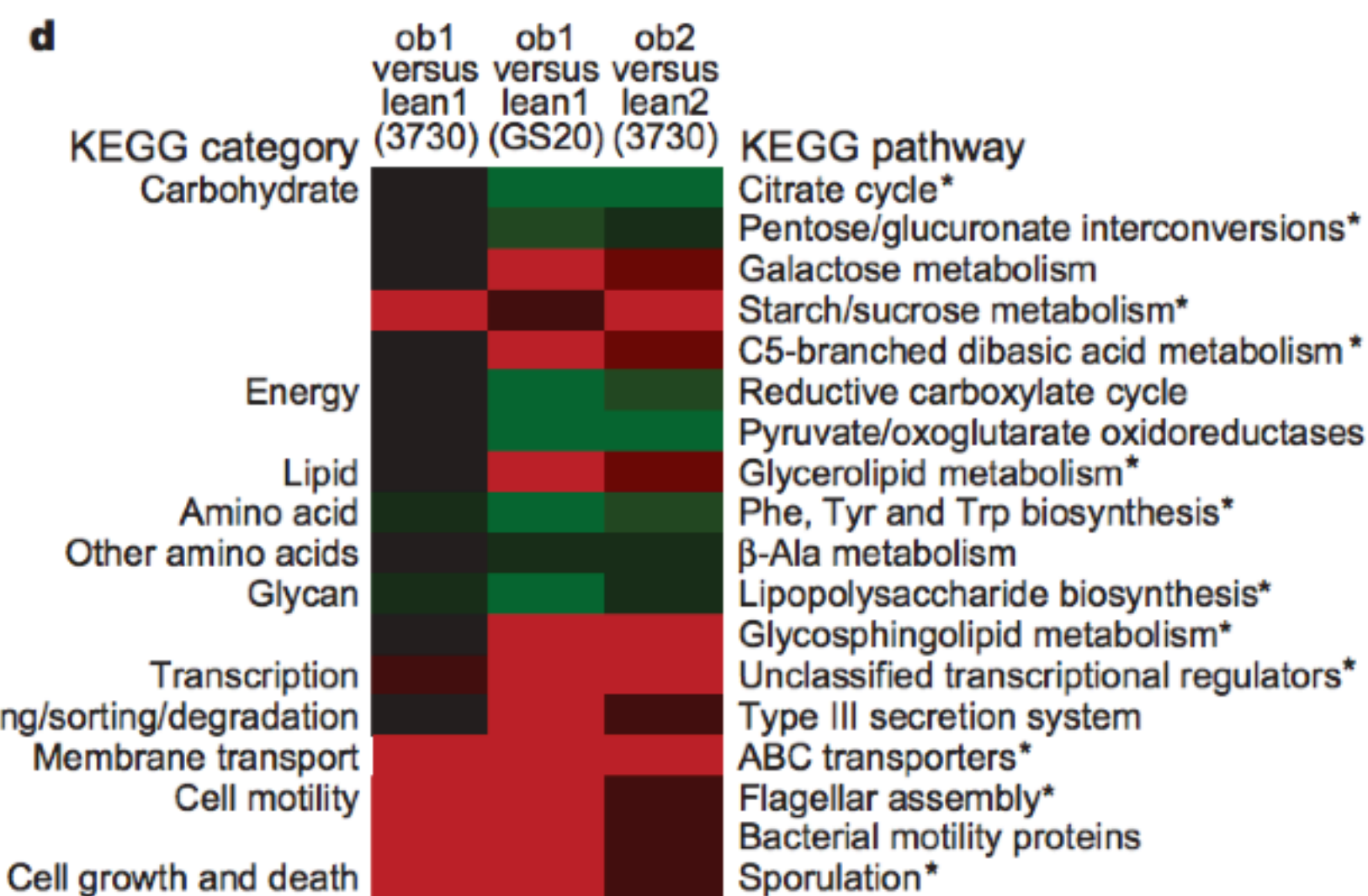
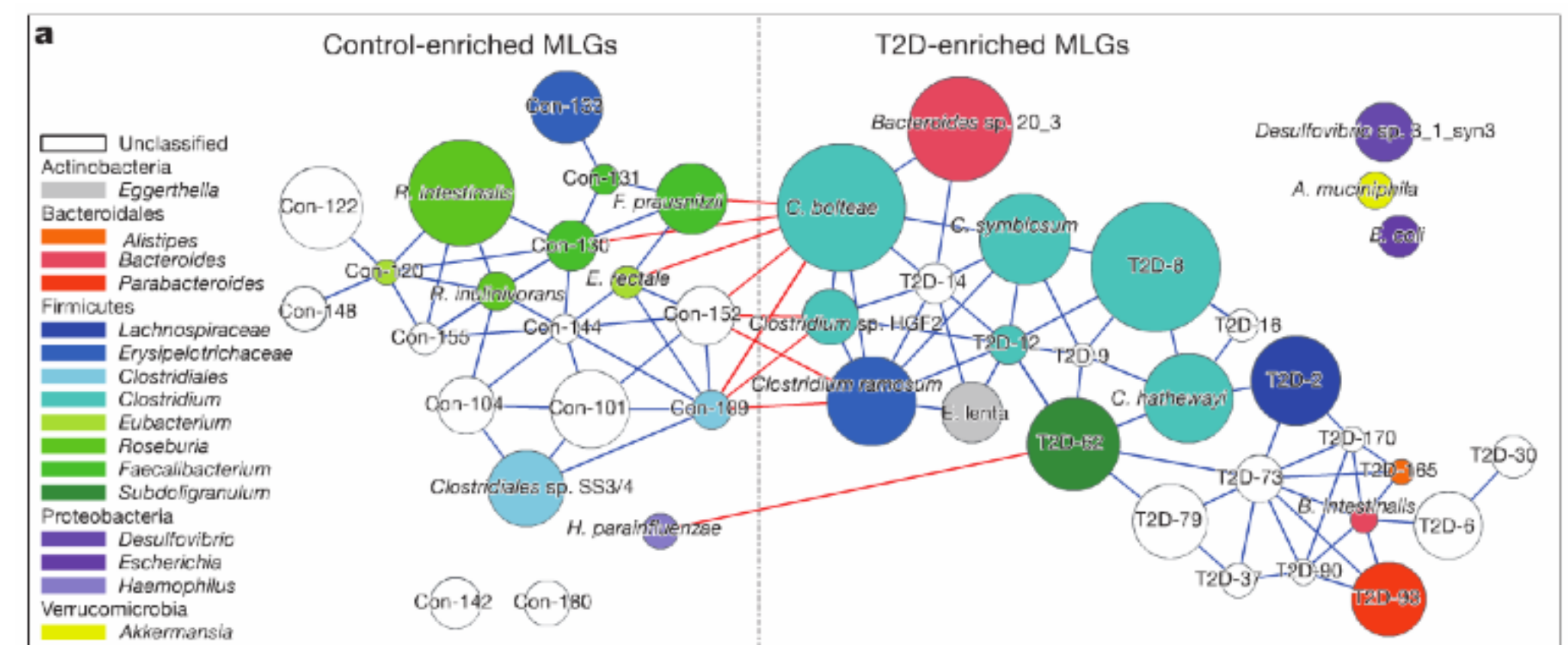


- Obesidade:
 - Razão: *Bacteroidetes/Firmicutes*
- Diabetes tipo 2
 - *Akkermansia muciniphila*







Gut Microbiota from Twins Discordant for Obesity Modulate Metabolism in Mice

Vanessa K. Ridaura, Jeremiah J. Faith, Federico E. Rey, Jiye Cheng, Alexis E. Duncan, Andrew L. Kau, Nicholas W. Griffin, Vincent Lombard, Bernard Henrissat, James R. Bain, Michael J. Muehlbauer, Olga Ilkayeva, Clay F. Semenkovich, Katsuhiko Funai, David K. Hayashi, Barbara J. Lyle, Margaret C. Martini, Luke K. Ursell, Jose C. Clemente, William Van Treuren, William A. Walters, Rob Knight, Christopher B. Newgard, Andrew C. Heath, Jeffrey I. Gordon¹

Qin J. et al, 2012 - Nature volume 490, pages 55–60

An obesity-associated gut microbiome with increased capacity for energy harvest

Peter J. Turnbaugh¹, Ruth E. Ley¹, Michael A. Mahowald¹, Vincent Magrini², Elaine R. Mardis^{1,2} & Jeffrey I. Gordon¹

<div><div> NextSeq Series +</div><div> HiSeq Series +</div><div> HiSeq X Series ‡</div><div> NovaSeq 6000 System</div></div>			
Key Application	Key Application	Key Application	Key Application
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<div>Optimized NGS Sample Tracking and Workflows</div> <div>Quality LIMS (Laboratory Information Management System) enabled this large genomics lab to streamline lab procedures and cope with increasing sample volumes from diverse clients.</div> <div>Read Case Study ></div>			
12–30 hours	< 1–3.5 days (HiSeq 3000/HiSeq 4000) 7 hours–6 days (HiSeq 2500)	< 3 days	16–36 hours (Dual S2 flow cells) 44 hours (Dual S2 flow cells)
120 Gb	1500 Gb	1800 Gb	6000 Gb
400 million	5 billion	6 billion	20 billion
2 × 150 bp	2 × 150 bp	2 × 150 bp	2 × 150 bp

