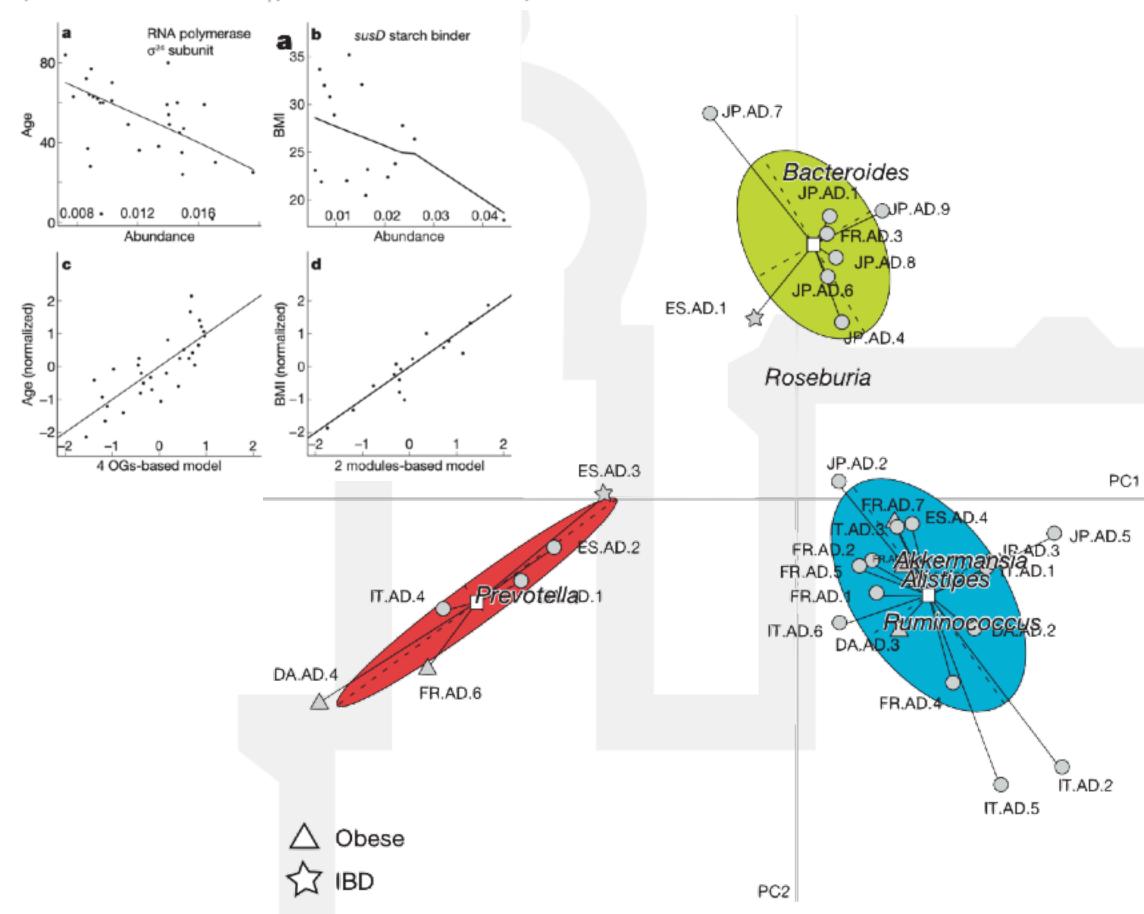
Trabalhos descritivos

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- Enterotipos
- 39 amostras
- Sequenciamento Sanger
- ~120k reads/amostra
- Pergunta:
 - Existe um padrão?
 - Por país
 - Por família
 - Por idade
 - Há associações?

Enterotypes of the human gut microbiome

Manimozhiyan Arumugam¹*, Jeroen Raes¹,²*, Eric Pelletier³,⁴,⁵, Denis Le Paslier³,⁴,⁵, Takuji Yamada¹, Daniel R. Mende¹, Gabriel R. Fernandes¹,⁶, Julien Tap¹,⁷, Thomas Bruls³,⁴,⁵, Jean-Michel Battoづ, Marcelo Bertalan³, Natalia Borruel⁵, Francesc Casellas⁵, Leyden Fernandez¹, Laurent Gautier³, Torben Hansen¹¹,¹, Masahira Hattori¹, Tetsuya Hayashi¹, Michiel Kleerebezem¹, Ken Kurokawa¹, Marion Leclercづ, Florence Levenezづ, Chaysavanh Manichanh⁵, H. Bjørn Nielsen³, Trine Nielsen¹, Nicolas Ponsづ, Julie Poulain³, Junjie Qin¹, Thomas Sicheritz-Ponten³, Sebastian Tims¹, David Torrents¹, Edgardo Ugarte³, Erwin G. Zoetendal¹, Jun Wang¹, Francisco Guarner⁵, Oluf Pedersen¹, Willem M. de Vos¹, Søren Brunak³, Joel Doréづ, MetaHIT Consortium†, Jean Weissenbach³, S. Dusko Ehrlich⁵ & Peer Bork¹, Peer Bork¹, Søren Brunak⁵, Joel Doréづ, MetaHIT Consortium†, Jean Weissenbach³, S. Dusko Ehrlich⁵ & Peer Bork¹, Peer Bor

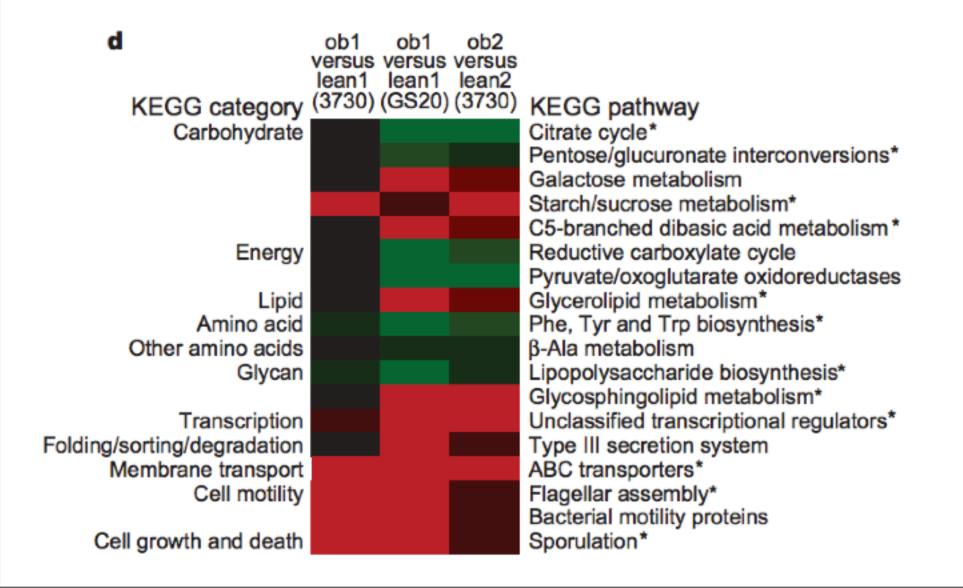


Descrição de associações

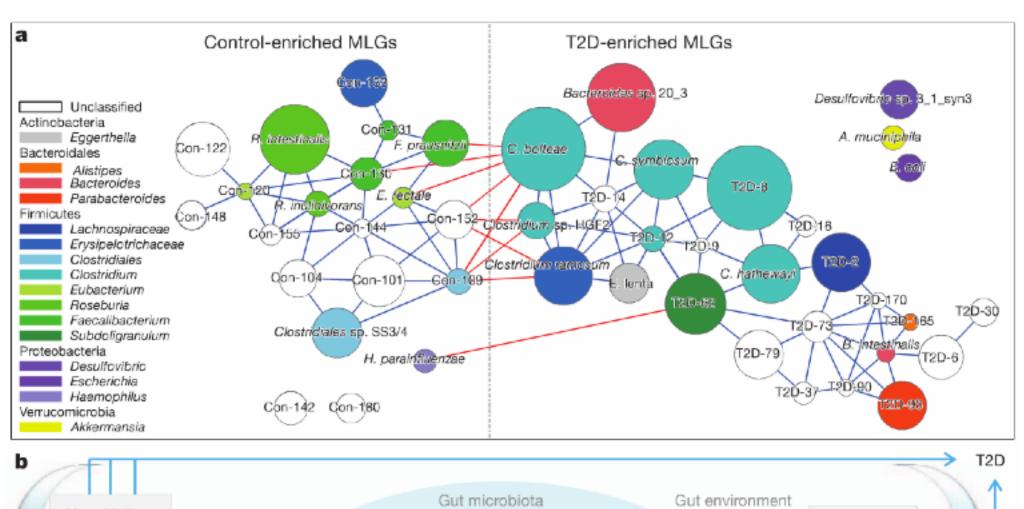
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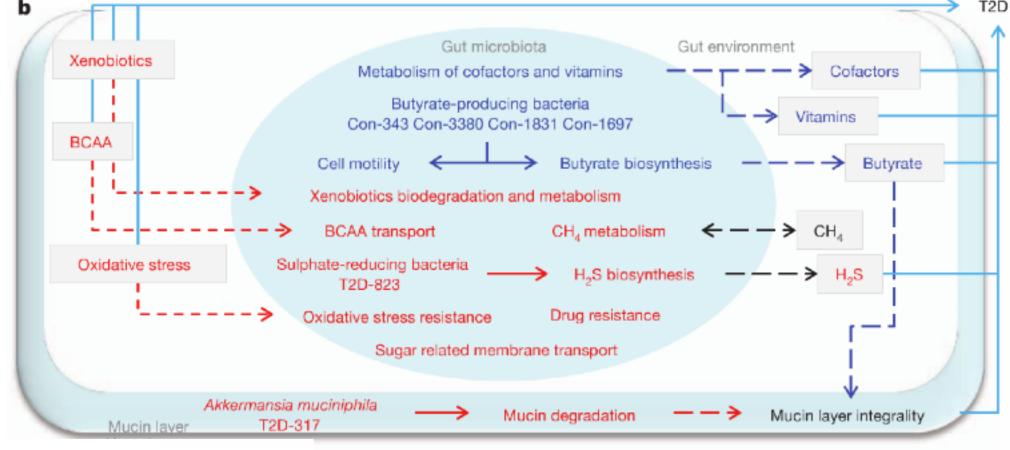
- Obesidade:
 - Razão Bacteroidetes/Firmicutes

- Diabetes tipo 2:
 - Rede de interações
 - 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 J. Gordon*

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