Kefir metabolites in a fly model for Alzheimer's Disease

Letícia Leandro Batista[1*], Serena Mares Malta[1], Heitor Cappato Guerra Silva[1], Luiza Diniz Ferreira Borges[1], Lays Oliveira Rocha[1], Jéssica Regina da Silva[1], Tamiris Sabrina Rodrigues[1], Gabriela Venturini[2], Kallyandra Padilha[3], Alexandre da Costa Pereira[2], Foued Salmen Espindola[1], Carlos Ueira-Vieira[1*].

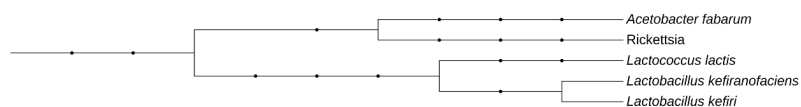[1] Institute of Biotechnology, Universidade Federal de Uberlândia, Uberlândia – Brazil.
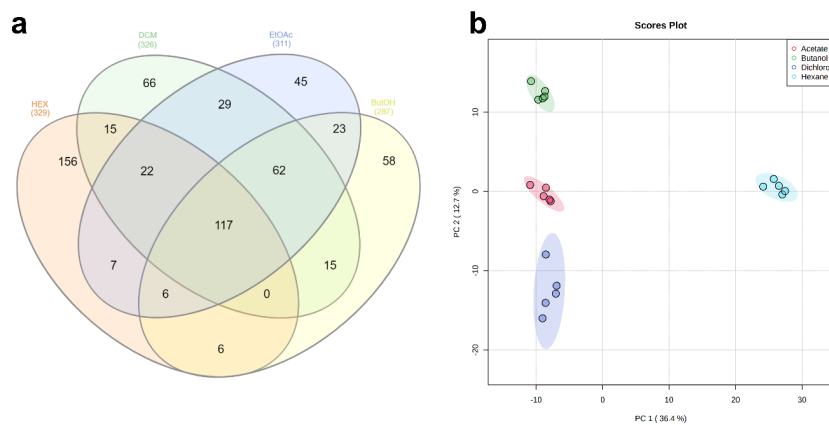
[2] Department of Genetics, Harvard Medical School, Boston, MA, USA.

[3] Laboratory of Genetics and Molecular Cardiology, Heart Institute, University of São Paulo Medical School, São Paulo, SP, Brazil.
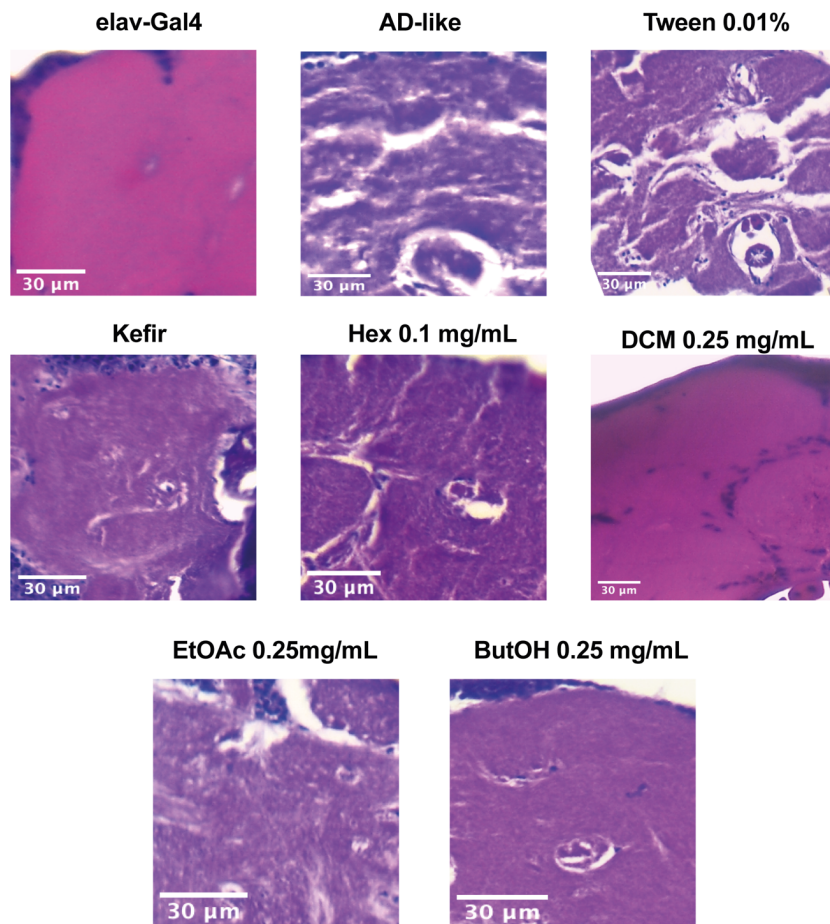
*Corresponding authors: batista@uni-mainz.de and ueira@ufu.br

Excluído: Silva

Supplementary Figure S1. Phylogenetic tree of the OTUs found in kefir microbiota.

Supplementary Figure S2 a. Venn diagram of compounds present in each fraction **b**. PCA analysis of fractions metabolites (MetaboAnalyst).

elav-Gal4

AD-like

Tween 0.01%

Kefir

Hex 0.1 mg/mL

DCM 0.25 mg/mL

EtOAc 0.25mg/mL

ButOH 0.25 mg/mL

Supplementary Figure S3. Representative histopathology analysis of elav-Gal4 (control), and AD-like flies (non-treated, and treated with kefir, Tween80 0.01% or fractions). N = 10.