

**Table S1.** The values of heart rate (beats/min) in the experimental groups. Data are mean  $\pm$  SD. Group legends: controls (CON), diet-induced obesity (DIO), diet-induced obesity + chemically induced colitis (DCC), diet-induced obesity + chemically induced colitis + antibiotic-induced dysbiosis (DCA), diet-induced obesity + chemically induced colitis + antibiotic-induced dysbiosis + treatment with *Lactobacillus acidophilus* (LA-5) and *Bifidobacterium animalis subsp. lactis* (BB-12) (PRK1), diet-induced obesity + chemically induced colitis + antibiotic-induced dysbiosis + treatment with *Saccharomyces boulardii* (PRK2), diet-induced obesity + chemically induced colitis + antibiotic-induced dysbiosis + treatment with *Enterococcus faecium* L3 (PRK3).

Groups	Baseline	Reperfusion						
		15 min	30 min	45 min	60 min	75 min	90 min	120 min
CON	366 $\pm$ 85	414 $\pm$ 38	369 $\pm$ 83	338 $\pm$ 72	298 $\pm$ 19	297 $\pm$ 22	307 $\pm$ 26	295 $\pm$ 25
DIO	444 $\pm$ 72	430 $\pm$ 57	364 $\pm$ 68	367 $\pm$ 74	357 $\pm$ 39	351 $\pm$ 56	403 $\pm$ 111	387 $\pm$ 84
DCC	401 $\pm$ 92	398 $\pm$ 53	384 $\pm$ 135	358 $\pm$ 79	359 $\pm$ 87	373 $\pm$ 86	364 $\pm$ 74	352 $\pm$ 53
DCA	370 $\pm$ 124	385 $\pm$ 59	352 $\pm$ 85	363 $\pm$ 47	401 $\pm$ 76	391 $\pm$ 79	411 $\pm$ 95	385 $\pm$ 76
PRK1	391 $\pm$ 109	401 $\pm$ 64	353 $\pm$ 83	366 $\pm$ 76	351 $\pm$ 82	384 $\pm$ 62	398 $\pm$ 81	376 $\pm$ 65
PRK2	461 $\pm$ 105	435 $\pm$ 99	364 $\pm$ 104	411 $\pm$ 91	410 $\pm$ 99	413 $\pm$ 96	402 $\pm$ 97	395 $\pm$ 71
PRK3	416 $\pm$ 126	414 $\pm$ 109	421 $\pm$ 141	392 $\pm$ 97	397 $\pm$ 105	399 $\pm$ 59	406 $\pm$ 102	389 $\pm$ 75