

Publication	Exercise Protocol	Bio-fluid	Author-used Terminology	Isolation Method	miRNA Methodology	miRNA Species	Collection Time Periods
ACUTE EXERCISE STIMULUS (continued)							
Oliveira et al., 2018	Treadmill 40 min at low intensity (14-16 m·min ⁻¹ , ~20% below MLSS) in untrained Wistar rats. Treadmill 40 min at moderate intensity (20-22 m·min ⁻¹ , on MLSS) Treadmill 40 min at high intensity (24-26 m·min ⁻¹ , 20% above MLSS)	SER	Exosome-like small EVs	DC Exoquick™ Precipitation	Small RNA library (NextGen) (n = 765 mature miRNAs of <i>R. norvegicus</i> miRBase database)	miR-25-3p miR-93-5p miR-103-3p miR-128-3P miR-142-5P miR-148a-3p miR-191a-5p miR-3068-3p miR-10b-5p All intensities collapsed for analysis.	Post-Ex
Yin et al., 2019	UH running (20 m·min ⁻¹ at a 15% grade for 90 min) in male Sprague-Dawley rats DH running (20 m·min ⁻¹ at a 15% grade for 90 min) in male Sprague-Dawley rats	PLA	Exosomes	DC Exoquick™ Precipitation	Custom-design (synthetic miRNA oligonucleotides)	miR-1 miR-133a miR-133b miR-206 miR-208 miR-499 miR-1 miR-133a miR-133b miR-206 miR-208 miR-499	Post-Ex Post-Ex
Nair et al., 2020	Cycling exercise for 40 min at ~70% HRR in recreationally trained (RT; ~34mL·min ⁻¹ ·kg ⁻¹) and sedentary (SED; ~21 mL·min ⁻¹ ·kg ⁻¹)	PLA	Exosomes	DC Exoquick™ Precipitation UC	Small RNA Library Sequencing	<u>RT Group</u> miR-383-5p miR-339-5p miR-74-3p miR-486-5p miR-148a-p let-7b-5p miR-206 <u>SED Group</u> miR4433b-3p miR-505-3p miR-29b-3p miR-203a-3p miR-384 miR-451a miR223-3p miR-218-5p miR-495-3p	1h Post-Ex 48h Post-Ex 3h Post-Ex

Publication	Exercise Protocol	Bio-fluid	Author-used Terminology	Isolation Method	miRNA Methodology	miRNA Species	Collection Time Periods miRNA results
CHRONIC EXERCISE TRAINING							
Chaturvedi et al., 2015	8-wk treadmill training in db/+ mice ($7 \text{ m}\cdot\text{min}^{-1}$) and db/db mice ($10 \text{ m}\cdot\text{min}^{-1}$) for 300m/d, 5d/wk	SER	Exosomes	DC 0.2 μm filter UC	Custom design (synthetic miRNA oligonucleotides)	miR-455 miR-29b miR-323-5p miR-466	<u>Following Training</u> ↑ ↑ ↔ ↔
Hou et al., 2019	4-wk swimming training (10m progressed to 90m/day ~7days/wk) in Sprague-Dawley rats	PLA	Exosomes	DC Exoquick™ Precipitation UC	miRNA library sequencing (Commercial service)	miR-3571 miR-1-3p miR-342-5p miR-122-5p miR-196b-5p miR-486 miR-208-3p miR-3591 miR-184 miR-760-3p miR-99a-5p miR-191-5p miR-494-3p miR-206-3p	<u>Following Training</u> ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↓ ↔ ↔

Supplementary Table 1: The effect of acute or chronic exercise on miRNA abundance in ELV-enriched blood borne fractions. DC; differential centrifugation; DHR: downhill running; EM: electron microscopy; EV: Extracellular Vesicles; IBI; Immuno-bead isolation; PLA; Plasma; PMJ: plyometric jumping; RT; recreationally trained prior to study initiation, SEC: Size Exclusion Chromatography; SER: serum; UC: ultracentrifugation; UHR: uphill running; ↑; statistically significant increase, ↔ non-significant changes, ↓; significant decrease denoted by statistical tests performed in the publication of origin.