SUPPLEMENTARY DATA

Postbiotic *Parabacteroides Distasonis* Supplementation Enhances Intestinal and Skeletal Muscle Function in Aged Mice

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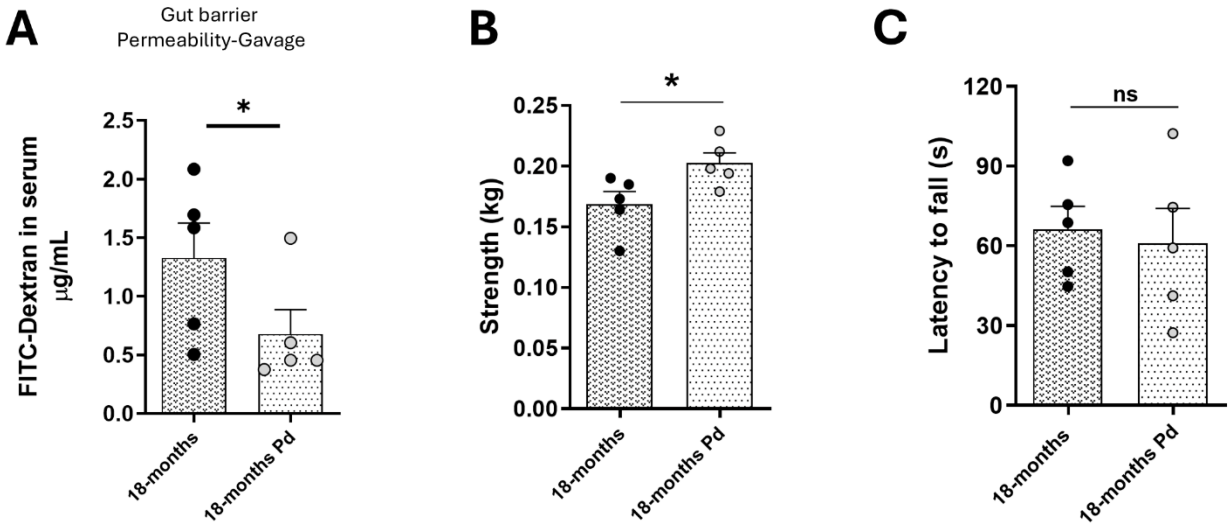

Supplementary Figure 1. Postbiotic Pd supplementation via gavage enhances gut barrier integrity, strength, and motor coordination. 18-month-old mice received a weekly gavage of 10 mg lyophilized postbiotic *Parabacteroides distasonis* (Pd) in 200 µL of PBS for three months. Control mice received a weekly gavage of PBS. **S1A.** Following the Pd treatment period, mice were gavage-fed FITC-dextran (0.6 mg/g body weight), and fluorescence intensity in the serum was measured 4 hours later as an indicator of gut barrier permeability. N = 5 for the Pd treated group and 6 for the control. Data are presented as MEAN ± SEM, $p < 0.05$, *Mann-Whitney test.* **S1B**. Fore-/hindlimb (4 paws) grip strength was determined following Pd treatment, N = 5 for the Pd treated group and 6 for control group. Data are expressed as MEAN ± SEM. *$p \leq 0.05$, *Mann-Whitney test*. **S1C**. Latency to fall on accelerating rotarod was performed after the Pd treatment. N = 5 for the Pd treated group and 6 for the control. Data are presented as MEAN ± SEM, ns=not significant, *Mann-Whitney test*.