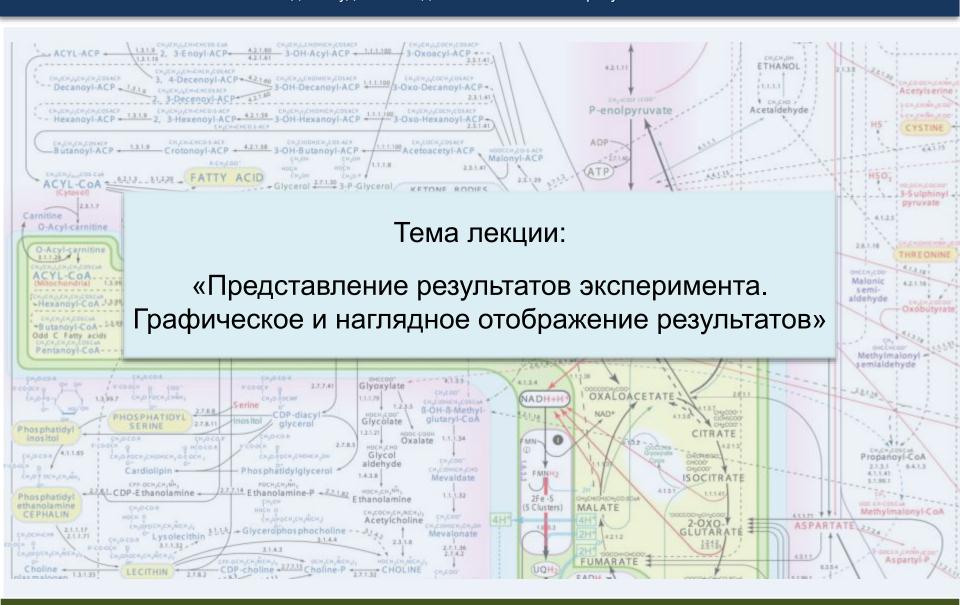
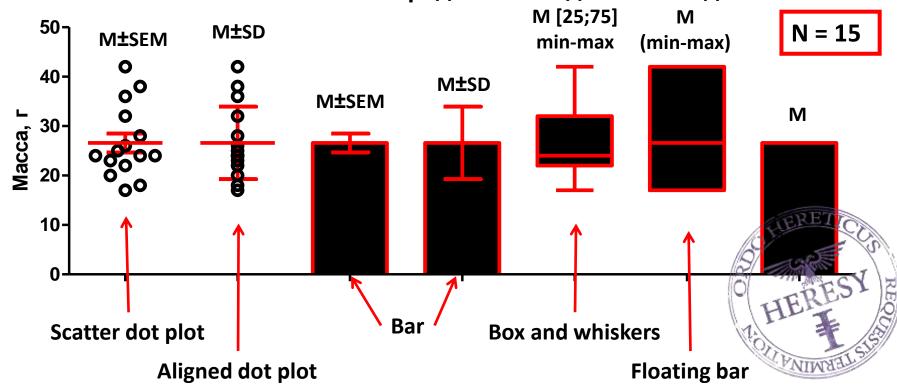
«Методология научного эксперимента»

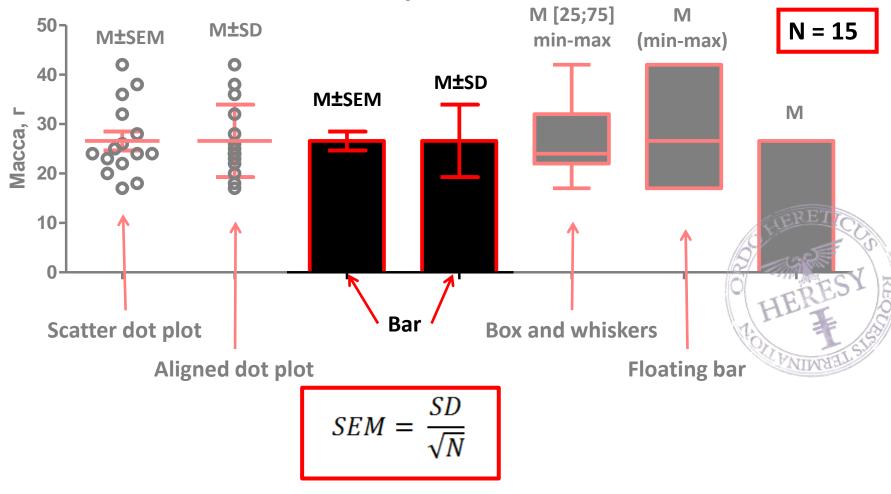
Курс лекций кафедры фундаментальной медицины и биологии ВолгГМУ для студентов медико-биологического факультета



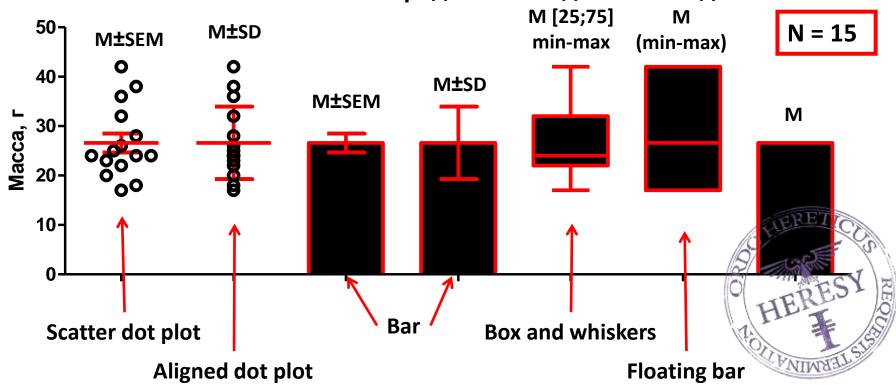
Какими способами можно представить одни и те же данные?



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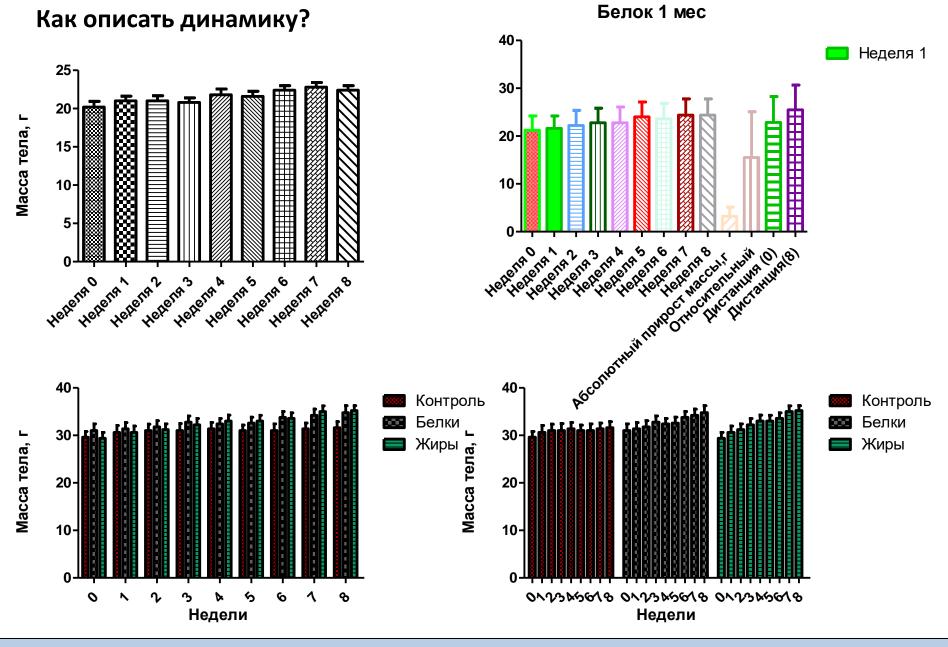


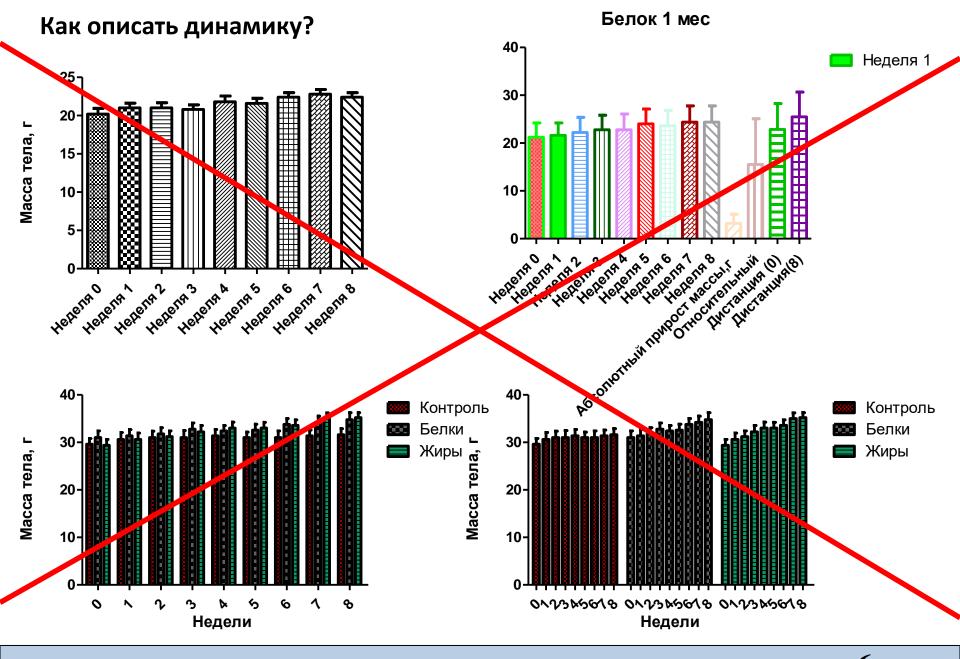
Какими способами можно представить одни и те же данные?



Эти способы подходят для единичных измерений.

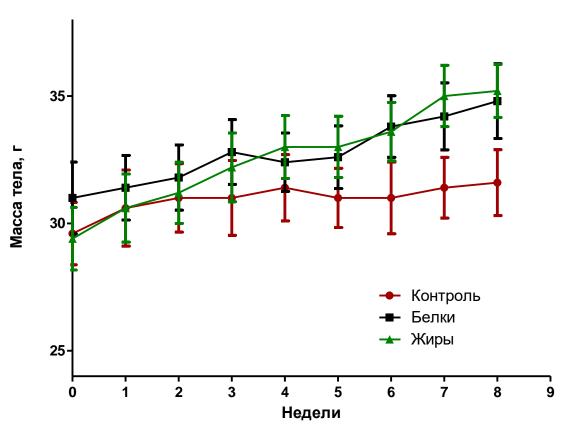
Но что делать, если нужно отследить динамику какого-либо явления?





Как описать динамику?





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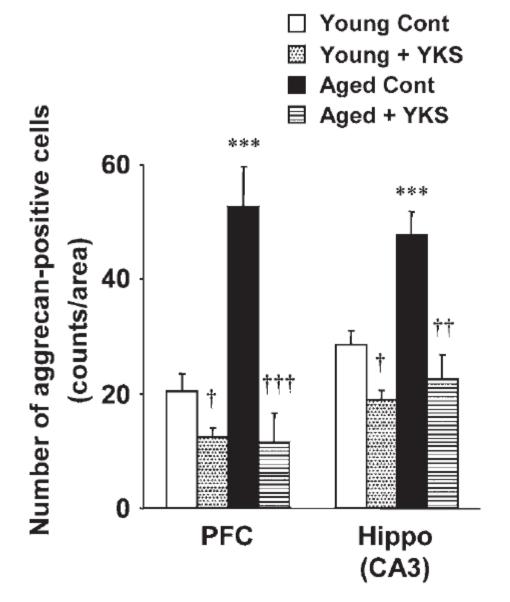


Fig. 3. Influence of aging and effect of YKS treatments on the number of aggrecan-positive cells in the motor cortical region of the PFC and in the CA3 subfield of the hippocampus of rats. Each column is the mean±SEM of six rats per group. Asterisks indicate a significant difference between young control and aged control rats, **** *P*<0.001.

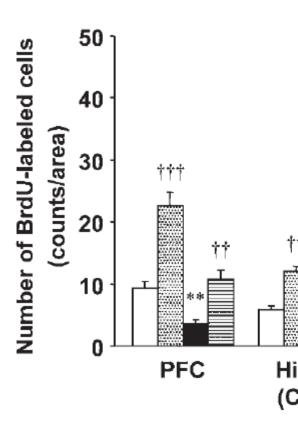
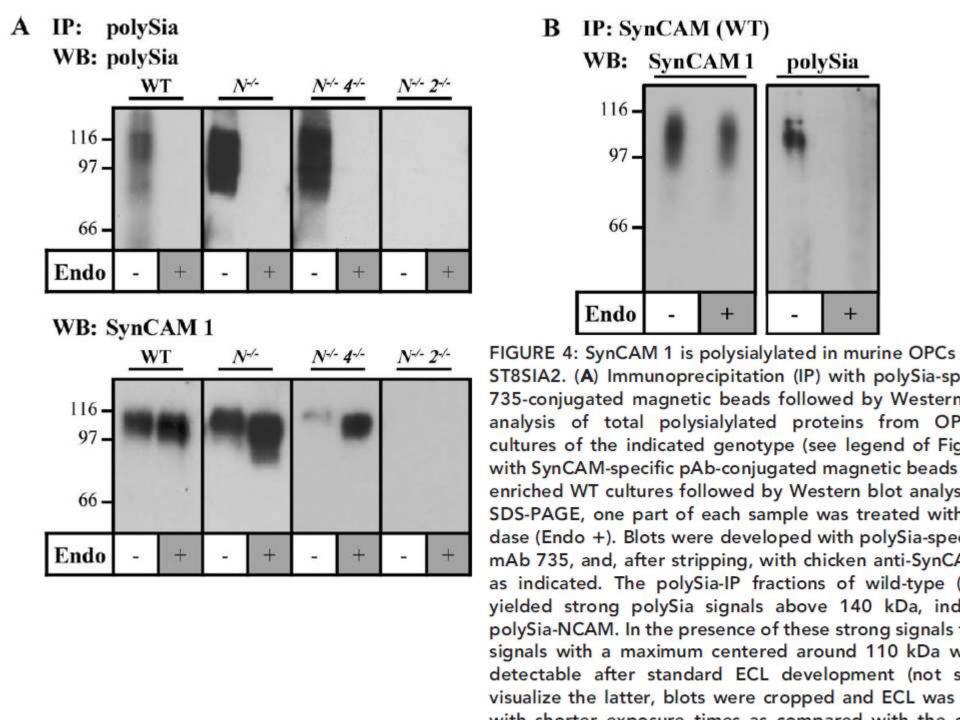


Fig. 5. Influence of aging and effect of of BrdU-labeled cells in the motor cortic subfield of the hippocampus, and dental is the mean±SEM of six rats per group. difference between young control and ** P<0.01. Daggers indicate a significate and YKS-treated in young or aged



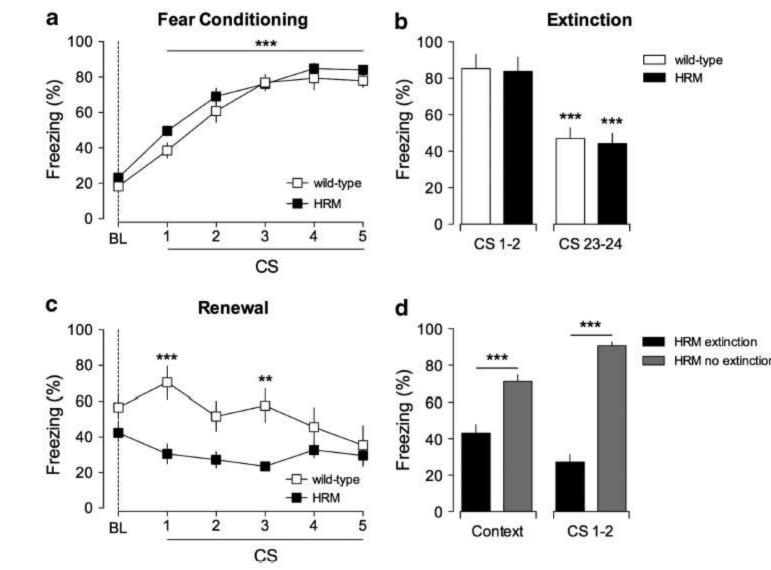


Figure 1. Extinction erased fear memories in juvenile heterozygous reeler mice (HRM). (a) Freezing behavior of HRI wild-type (n = 8; white squares) during fear conditioning. Freezing levels after each five pairs of tone-shock prese different when compared with baseline (BL) measured before paired conditioned stimuli–unconditioned sti (***P < 0.001). (b) Freezing behavior evoked by the first (CS 1 and 2) and last pair (CS 23 and 24) of CS presentation of extinction training, both groups exhibited a significant auditory fear extinction compared with the initial two

(***P<0.001). (c) CS-evoked freezing showing a significant context-dependent renewal in wild-type (white squares, n = 9; ***P<0.001 and **P<0.01, wild-type versus HRM for each CS presentation). (d) In the absence

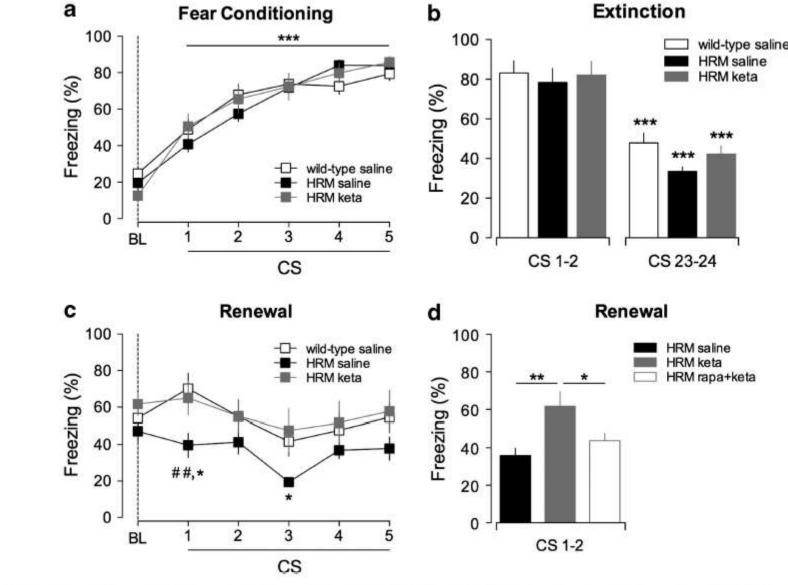


Figure 4. Ketamine prevents fear memory erasure by extinction in juvenile heterozygous reeler mice (HRM) via rapamycin pathway. (a) Similar freezing levels were measured during fear conditioning of saline-injected wild-t saline-injected HRM (black squares, n = 9) and ketamine (keta)-injected HRM (gray squares, n = 9). All groups show the percentage of freezing time after each paired conditioned stimulus-unconditioned stimulus (CS-US) presen

respective baseline (BL; ***P<0.001). (**b**) All groups exhibited a significant decrease of freezing levels between the last 2 (CS 23 and 24) trials of extinction sessions (***P<0.001). (**c**) Ketamine rescued context-dependent renew

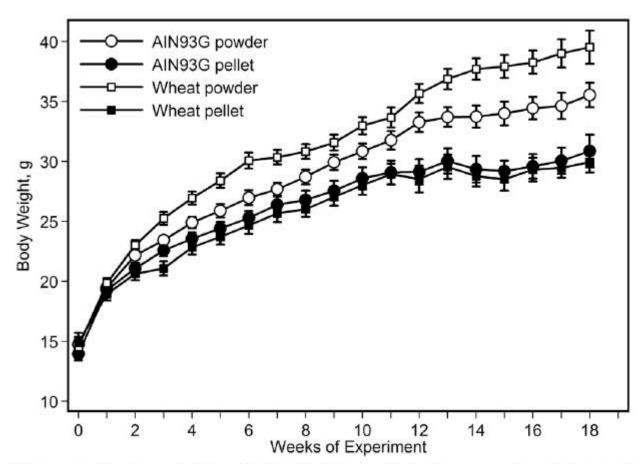
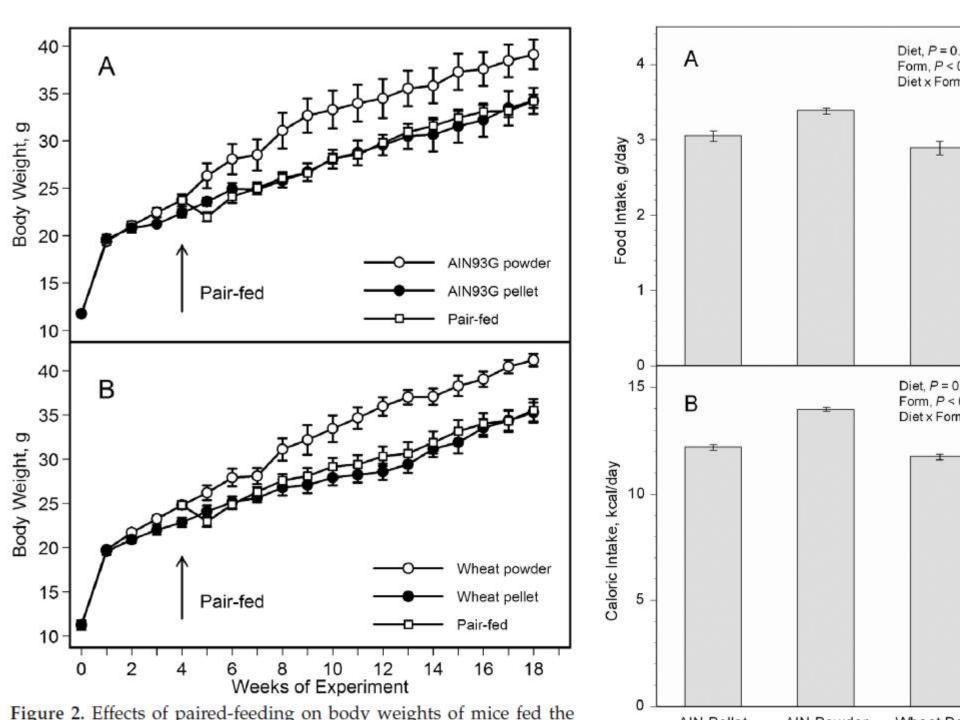


Figure 1. Body weights of mice fed the pelleted or powdered form of the AIN93G or wheat-supplemented diet. Two-way ANOVA and Tukey contrasts were performed to compare differences among groups. The difference in body weight between groups fed the pelleted or powdered diet was significant (P < 0.01) 2 wk after initiation of the experiment, and the significant increase continued throughout the experiment. Data are presented as mean \pm SEM (n = 13 to 15 per group).



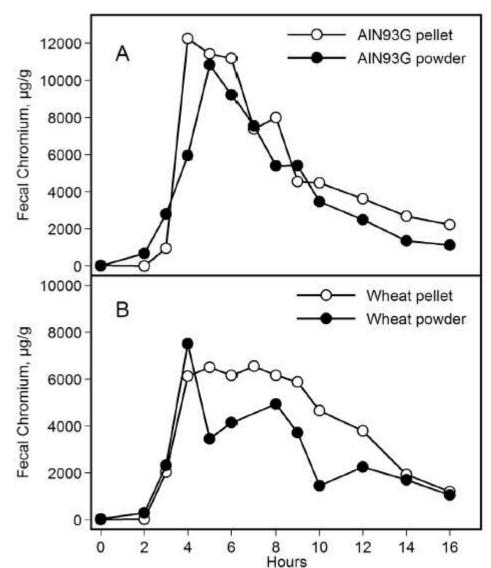
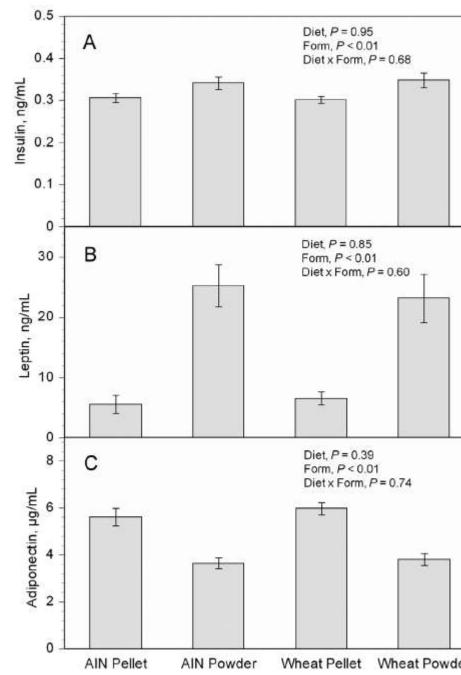


Figure 4. Gastrointestinal transit time of mice fed the pelleted or powdered form of the AIN93G or wheat-supplemented diet after ingesting 0.25 g Cr-supplemented diet (n = 2 for each time point).

Powdered and pelleted forms of both diets were associated with significant differences in body composition (Table 2). The ratio of fat mass to body mass increased by approximately



AIN Pellet AIN Powder Wheat Pellet Wheat Powder Figure 5. Plasma concentrations of (A) insulin, (B) leptin, and (C) a

ponectin in mice fed the pelleted or powdered form of the AIN9