

SUPPLEMENTAL MATERIAL

Characteristics of the Impaired Glucose Homeostasis Produced in C57BL/6 Mice by Chronic Exposure to Arsenic and High-Fat Diet

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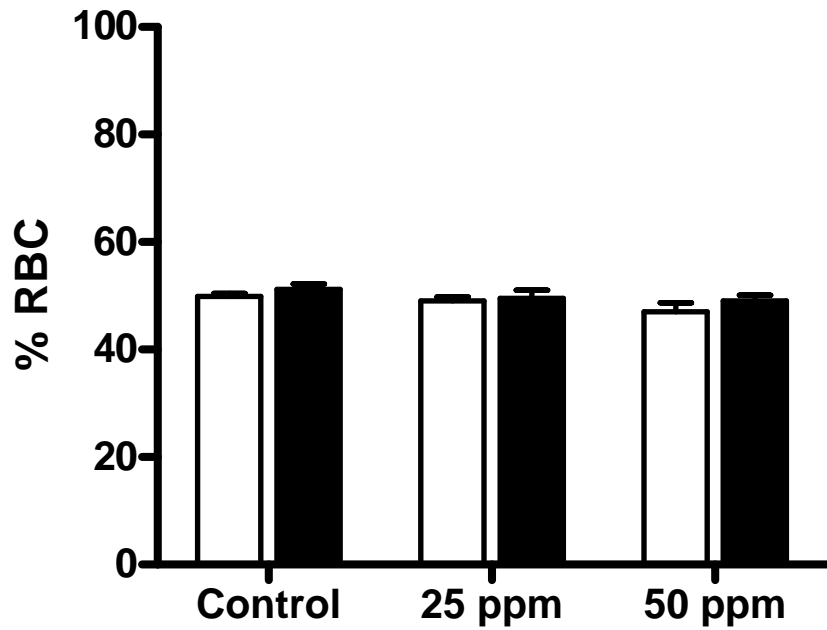
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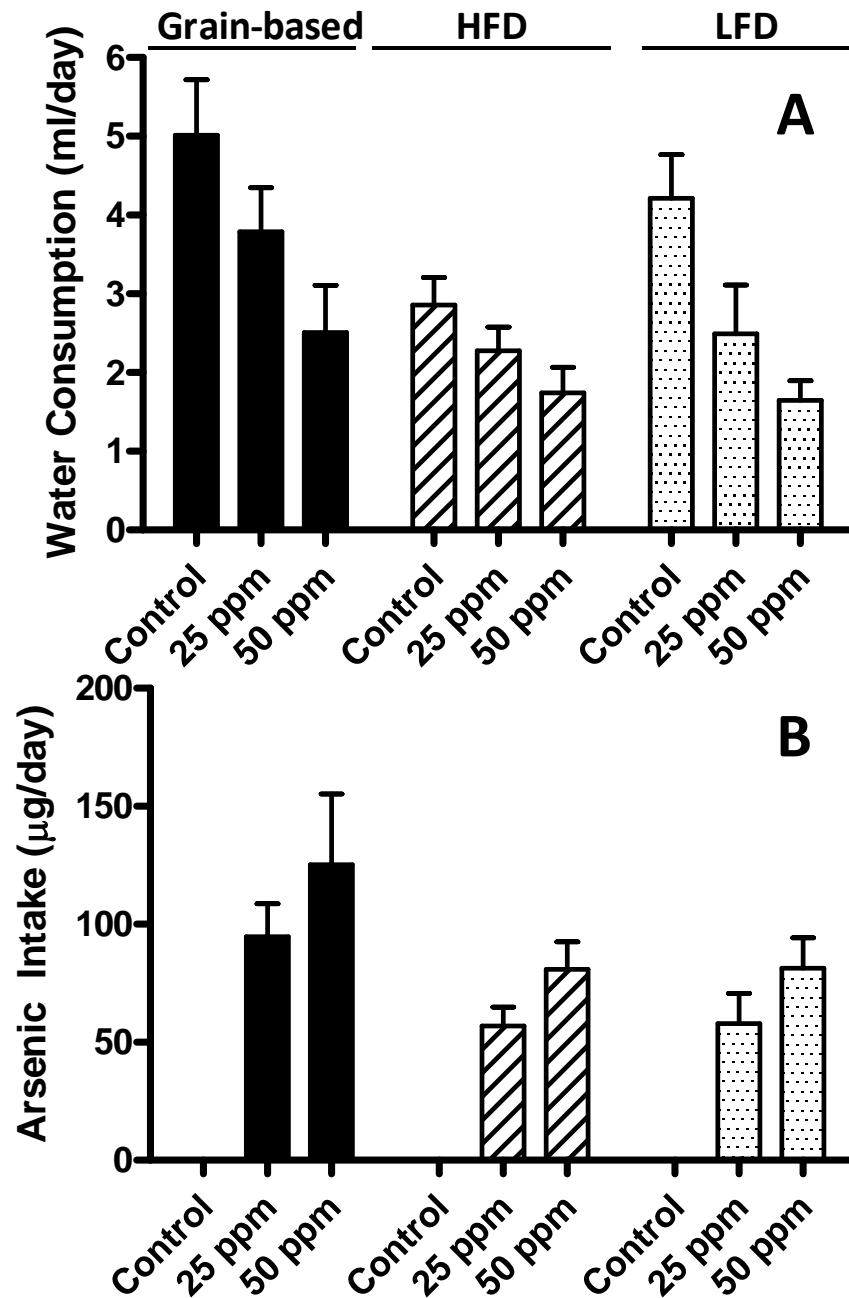
Supplemental Material, Table 1: Basic characteristics of the purified diets used in this study and the grain-based diet used in previous studies¹

Diet	Purified Low-Fat Diet (LFD)	Purified High-Fat Diet (HFD)	Grain-based diet
Manufacturer	Research Diets, Inc.	Research Diets, Inc.	LabDiet PMI Nutrition International
Description	11 kcal% fat w/sucrose Surwit Diet (D12329)	58 kcal% fat w/sucrose Surwit Diet (D12331)	PicoLab Mouse Diet 20 (No. 5058)
Energy density (kcal/g)	4.07	5.56	3.75
Fat (% kcal/g)	10.5	58.0	21.6
Protein (% kcal/g)	16.4	16.4	23.2
Carbohydrate (% kcal/g)	73.1	25.5	55.1

¹ Paul DS, Hernández-Zavala, A, Walton, FS, Adair, BM, Dědina, J, Matoušek, T, et al. 2007. Examination of the effects of arsenic on glucose homeostasis in cell culture and animal studies: Development of a mouse model for arsenic-induced diabetes. *Toxicol Appl Pharmacol* 222:305-314.



Supplemental Material, Figure 1: Hematocrits of mice exposed to 25 ppm or 50 ppm As or control mice fed LFD (□) or HFD (■). (Mean \pm SEM, n = 5-10)



Supplemental Material, Figure 2: Effects of diet composition on water consumption (A) and arsenic intake (B) by control mice and mice exposed to 25 or 50 ppm As in drinking water. Results for mice fed a low fat grain-based diet¹ (Lab Diet 5058, Nutrition International, Brentwood, MO) and purified LFD and HFD are shown (Mean \pm SEM, n = 15 for grain-based diet, n = 38 for HFD and LFD)

¹ Paul DS, Hernández-Zavala, A, Walton, FS, Adair, BM, Dědina, J, Matoušek, T, et al. 2007. Examination of the effects of arsenic on glucose homeostasis in cell culture and animal studies: Development of a mouse model for arsenic-induced diabetes. *Toxicol Appl Pharmacol* 222:305-314.