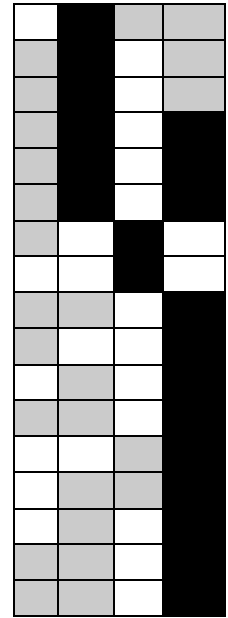


Table S5. Canonical pathways significantly modulated after fractionated low or high dose exposures in the mammary gland of BALB/c or C57Bl/6.

EARLY (4 hr) RESPONSE

	BALB/c		C57Bl/6	
	L	H	L	H
p53 Signaling		■		■
Cell Cycle: G2/M DNA Damage Checkpoint Regulation		■		■
Cdc42 Signaling		■		■
Cell Cycle: G1/S Checkpoint Regulation		■		■
Primary Immunodeficiency Signaling	■		■	
Production of Nitric Oxide and Reactive Oxygen Species in Macrophages	■		■	
TREM1 Signaling	■		■	
Leukocyte Extravasation Signaling	■		■	
IL-2 Signaling	■		■	
Role of Pattern Recognition Receptors in Recognition of Bacteria and Viruses	■		■	
Natural Killer Cell Signaling	■		■	
GM-CSF Signaling	■		■	
Altered T Cell and B Cell Signaling in Rheumatoid Arthritis	■	■	■	■
B Cell Development	■	■	■	■
Calcium-induced T Lymphocyte Apoptosis	■	■	■	■
CTLA4 Signaling in Cytotoxic T Lymphocytes	■	■	■	■
Cytotoxic T Lymphocyte-mediated Apoptosis of Target Cells	■	■	■	■
Allograft Rejection Signaling	■	■	■	■
Autoimmune Thyroid Disease Signaling	■	■	■	■
Graft-versus-Host Disease Signaling	■	■	■	■
Nur77 Signaling in T Lymphocytes	■	■	■	■
Antiproliferative Role of TOB in T Cell Signaling	■	■	■	■
OX40 Signaling Pathway	■	■	■	■
IL-4 Signaling	■	■	■	■
Antigen Presentation Pathway	■	■	■	■
Interferon Signaling	■	■	■	■
Activation of IRF by Cytosolic Pattern Recognition Receptors	■	■	■	■
Chemokine Signaling	■	■	■	■
LPS-stimulated MAPK Signaling	■	■	■	■
CCR5 Signaling in Macrophages	■	■	■	■
T Helper Cell Differentiation	■	■	■	■
Toll-like Receptor Signaling	■	■	■	■
B Cell Receptor Signaling	■	■	■	■
CD28 Signaling in T Helper Cells	■	■	■	■
Biosynthesis of Steroids	■	■	■	■
Glutathione Metabolism	■	■	■	■
Methionine Metabolism	■	■	■	■
Nicotinate and Nicotinamide Metabolism	■	■	■	■
Prolactin Signaling	■	■	■	■
Coagulation System	■	■	■	■
Caveolar-mediated Endocytosis Signaling	■	■	■	■
Oncostatin M Signaling	■	■	■	■
Rac Signaling	■	■	■	■
Extrinsic Prothrombin Activation Pathway	■	■	■	■
Integrin Signaling	■	■	■	■

Hepatic Fibrosis / Hepatic Stellate Cell Activation
 DNA Methylation and Transcriptional Repression Signaling
 HER-2 Signaling in Breast Cancer
 Aryl Hydrocarbon Receptor Signaling
 VDR/RXR Activation
 Glioblastoma Multiforme Signaling
 LXR/RXR Activation
 Role of Lipids/Lipid Rafts in the Pathogenesis of Influenza
 Thrombopoietin Signaling
 Docosahexaenoic Acid (DHA) Signaling
 Molecular Mechanisms of Cancer
 Wnt/b-catenin Signaling
 14-3-3-mediated Signaling
 RAR Activation
 HGF Signaling
 Type I Diabetes Mellitus Signaling
 Glioma Signaling



1-MONTH RESPONSE

BALB/c		C57BL/6	
L	H	L	H
Grey	Grey	Black	White
Grey	Grey	Black	White
Black	White	Grey	White
Grey	Grey	Grey	Grey
Grey	Grey	Grey	Black

ATM Signaling
 Role of CHK Proteins in Cell Cycle Checkpoint Control
 Pyrimidine Metabolism
 Cell Cycle: G1/S Checkpoint Regulation
 p53 Signaling

IL-12 Signaling and Production in Macrophages
 LPS-stimulated MAPK Signaling
 IL-22 Signaling
 IL-3 Signaling
 LPS/IL-1 Mediated Inhibition of RXR Function
 GM-CSF Signaling
 TNFR1 Signaling

White	Grey	White	Black
White	Grey	White	Black
Grey	White	White	Black
Grey	Grey	White	Black
Grey	White	White	Black
Black	White	White	Grey
Grey	Black	White	White

Nitrogen Metabolism
 Pantothenate and CoA Biosynthesis
 Glycolysis/Gluconeogenesis
 Ascorbate and Aldarate Metabolism
 Riboflavin Metabolism
 Starch and Sucrose Metabolism
 Glycerolipid Metabolism
 Glycerophospholipid Metabolism
 Nicotinate and Nicotinamide Metabolism
 Metabolism of Xenobiotics by Cytochrome P450

Black	White	White	Grey
White	White	Black	Black
White	Grey	Grey	Black
White	Grey	White	Black
Grey	White	White	Black
White	White	Grey	Black
White	White	Grey	Black
Grey	Grey	White	Black
Grey	White	White	Black
White	White	White	Black

PDGF Signaling
 Coagulation System
 Oncostatin M Signaling
 Small Cell Lung Cancer Signaling
 Pancreatic Adenocarcinoma Signaling
 Chronic Myeloid Leukemia Signaling
 Bladder Cancer Signaling

Black	White	White	Grey
Black	Grey	White	Grey
Black	Grey	Grey	Grey
Black	White	White	White
Black	Grey	White	Grey
Black	White	White	White
Black	Grey	White	Grey

Molecular Mechanisms of Cancer
 Integrin Signaling
 PAK Signaling
 Agrin Interactions at Neuromuscular Junction
 Tight Junction Signaling
 Wnt/b-catenin Signaling
 Basal Cell Carcinoma Signaling
 Hepatic Fibrosis / Hepatic Stellate Cell Activation
 Aryl Hydrocarbon Receptor Signaling
 Human Embryonic Stem Cell Pluripotency
 HMGB1 Signaling
 TGF- β Signaling
 Circadian Rhythm Signaling
 RAR Activation
 Growth Hormone Signaling
 Type II Diabetes Mellitus Signaling
 Factors Promoting Cardiogenesis in Vertebrates
 Bile Acid Biosynthesis
 Neuregulin Signaling

