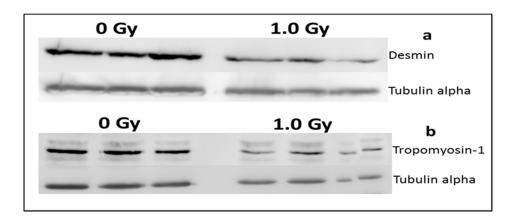
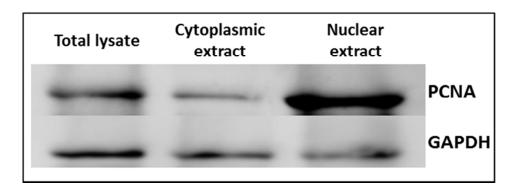
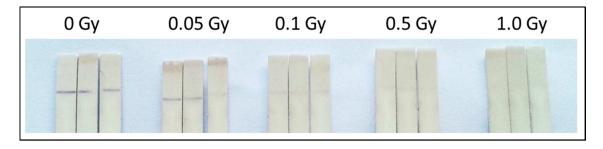
# **Supplementary Figures**



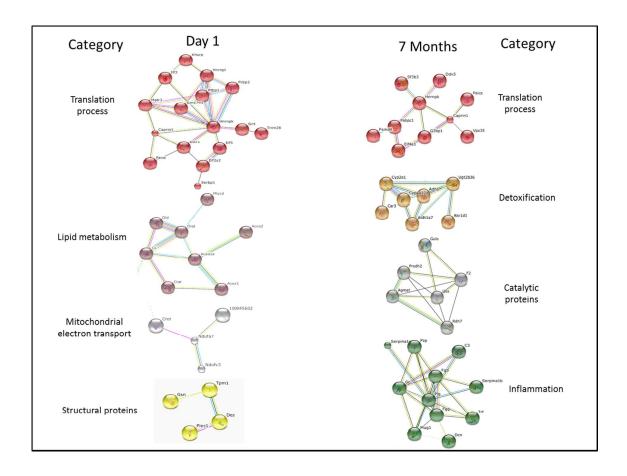
Supplementary Figure S1: Immunoblotting images of different proteins expressed after a dose of 1.0 Gy. Three biological replicates were used to quantify the blots (Post-natal day 11).



Supplementary Figure S2: Immunoblotting image showing enrichment of nuclear fraction from irradiated liver tissue.



Supplementary Figure S3: Dip-stick assay showing relative abundance of Pyruvate dehydrogenase in control, 0.05, 0.1, 0.5 and 1.0 Gy irradiated livers (Post-natal day 11).



Supplementary Figure S4: STRING protein networks showing comparison between different classes of proteins significantly deregulated at the dose of 1.0 Gy at PND 11 and 7 months post irradiation time points. Proteins belonging to network "Translation processes" were found to be commonly affected at early and late time point

#### Supplementary Figure S5: IPA summary analysis of 0.05 Gy early (PND11) liver analysis



#### Supplementary Figure S6: IPA summary analysis of 0.1 Gy early (PND11) liver analysis



#### Supplementary Figure S7: IPA summary analysis of 0.5 Gy early (PND11) liver analysis



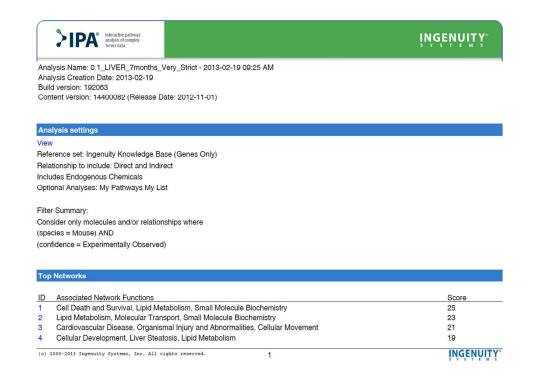
#### Supplementary Figure S8: IPA summary analysis of 1.0 Gy early (PND11) liver analysis



#### Supplementary Figure S9: IPA summary analysis of 0.02 Gy long-term liver analysis



#### Supplementary Figure S10: IPA summary analysis of 0.1 Gy long-term liver analysis



## Supplementary Figure S11: IPA summary analysis of 0.5 Gy long-term liver analysis

Nam	ne	p-value	Ratio
Acut	te Phase Response Signaling	5.3E-08	8/163 (0.049
XR	/RXR Activation	1.76E-06	6/114 (0.053
oag	gulation System	5.31E-06	4/35
lem	ne Biosynthesis II	3.85E-04	(0.222
xtri	insic Prothrombin Activation Pathway	1.27E-03	2/16 (0.125
	Regulator Effect Networks  Networks		
ор	Networks		Score
<b>ор</b>	Networks Associated Network Functions		Score 24
ор	Networks		
	Notworks  Associated Network Functions Inflammatory Response, Energy Production, Lipid Metabolism		24
Ор	Associated Network Functions Inflammatory Response, Energy Production, Lipid Metabolism Organismal Injury and Abnormalities, Renal and Urological Disease, Cellular Movement Energy Production, Lipid Metabolism, Small Molecule Biochemistry Lipid Metabolism, Molecular Transport, Small Molecule Biochemistry		24 22 22 8
ор	Associated Network Functions Inflammatory Response, Energy Production, Lipid Metabolism Organismal Injury and Abnormalities, Renal and Urological Disease, Cellular Movement Energy Production, Lipid Metabolism, Small Molcoulo Biochomistry		24 22 22
Ор	Associated Network Functions Inflammatory Response, Energy Production, Lipid Metabolism Organismal Injury and Abnormalities, Renal and Urological Disease, Cellular Movement Energy Production, Lipid Metabolism, Small Molecule Biochemistry Lipid Metabolism, Molecular Transport, Small Molecule Biochemistry		24 22 22 8

### Supplementary Figure S12: IPA summary analysis of 1.0 Gy long-term liver analysis

p Canonical Pathways		
me	p-value	Ratio
ute Phase Response Signaling	1.08E-07	8/163 (0.049
agulation System	1.59E-07	5/35 (0.143
trinsic Prothrombin Activation Pathway	2.47E-05	3/16 (0.188
(R/RXR Activation	5.1E-05	5/114 (0.044
trinsic Prothrombin Activation Pathway	1.25E-04	3/32 (0.094
op Regulator Effect Networks op Networks		
pp Networks		
p Networks Associated Network Functions		Score
p Networks  Associated Network Functions  Organismal Injury and Abnormalities, Respiratory Disease, Inflammatory Disease		28
p Networks  Associated Network Functions Organismal Injury and Abnormalities, Respiratory Disease, Inflammatory Disease Lipid Metabolism, Molecular Transport, Small Molecule Biochemistry		28 24
Associated Network Functions Organismal Injury and Abnormalities, Respiratory Disease, Inflammatory Disease Lipid Metabolism, Molecular Transport, Small Molecule Biochemistry Free Radical Scavenging, Molecular Transport, Lipid Metabolism		28 24 21
p Networks  Associated Network Functions Organismal Injury and Abnormalities, Respiratory Disease, Inflammatory Disease Lipid Metabolism, Molecular Transport, Small Molecule Biochemistry		28 24
Associated Network Functions Organismal Injury and Abnormalities, Respiratory Disease, Inflammatory Disease Lipid Metabolism, Molecular Transport, Small Molecule Biochemistry Free Radical Scavenging, Molecular Transport, Lipid Metabolism Cell Death and Survival, Cellular Growth and Proliferation, Gene Expression		28 24 21 9