Figure S1. Systemic inflammatory response in female (left panels), male (middle panels) and combined female and male ApoE-/- mice (right panels) at 24 h post thoracic irradiation. (A) Adiponectin, (B) IL-1 β , (C) CRP, (D) IL-6, (E) Endoglin, (F) PAI-1 and (G) FGF-basic. Data presented as the fold change of the post-irradiation cytokine level relative to the baseline inflammatory cytokine level. Statistical analysis was performed using a Kruskal-Wallis test, and the P-value was adjusted using the Benjamini-Hochberg method. Data are presented as boxplots showing the median of 6 mice per group. Data are considered significant when P<0.05. p.i., post irradiation; CRP, C-reactive protein; PAI-1, plasminogen activator inhibitor-1; FGF-basic, basic fibroblast growth factor.



Figure S2. Systemic inflammatory response in female (left panels) and male (middle panels) and combined female and male ApoE-/- mice (right panels) at 1 month post thoracic irradiation. (A) P-selectin, (B) IL-1 β , (C) CRP, (D) ICAM-1, (E) Endoglin, (F) MCP-1, (G) GDF-15, (H) PCSK-9 and (I) uPAR. Data are presented as the fold change of the post-irradiation cytokine level relative to the baseline inflammatory cytokine level. Statistical analysis was performed using a Kruskal-Wallis test, and the P-value was adjusted using Benjamini-Hochberg procedure. Data are presented as boxplots showing the median of 6 mice per group, except for the male 0 Gy group, which had 3 mice. Data are considered significant when P<0.05. p.i., post irradiation; CRP, C-reactive protein, ICAM-1, intercellular adhesion molecule-1; MCP-1, monocyte chemoattractant protein-1; GDF-15, growth differentiation factor-15; PCSK9, proprotein convertase subtilisin/kexin type 9; uPAR, urokinase-type plasminogen activator receptor.



Table SI. Summary of triglyceride and total cholesterol concentration in serum of female, male and combined female and male ApoE^{-/-} mice at 24 h and 1 month after local thoracic irradiation.

Time post irradiation	Female		Male		Combined	
	0.1 Gy	10 Gy	0.1 Gy	10 Gy	0.1 Gy	5 Gy
24 h Triglyceride Cholesterol						
1 month Triglyceride Cholesterol						
No significant changes. A significant increase, A significant decrease,	when P<0.05. when P<0.05.					

Time post-irradiation	Female		Male		Combined	
	0.1 Gy	10 Gy	0.1 Gy	10 Gy	0.1 Gy	10 Gy
24 h GDF-15 CXCL10 ICAM-1 MCP-1 uPAR PAI-1 PCSK9 P-selectin Adiponectin CRP Endoglin FGF-basic IL-1β IL-6						
1 month GDF-15 CXCL10 ICAM-1 MCP-1 uPAR PAI-1 PCSK9 P-selectin Adiponectin CRP Endoglin FGF-basic IL-1β IL-6						

Table SII. Summary of inflammatory cytokines in serum of female, male and combined female and male ApoE^{-/-} mice at 24 h and 1 month after local thoracic irradiation.

 No significant changes.

 A significant increase, when P<0.05.</td>

 A significant decrease, when P<0.05.</td>

	TIC	ΑE	TIME		
Time post-irradiation	0.1 Gy	5 Gy	0.1 Gy	5 Gy	
24 h					
GDF-15					
CXCL10					
ICAM-1					
MCP-1					
uPAR					
PAI-1					
P-selectin					
FGF-basic					
IL-6					
72 h					
GDF-15					
CXCL10					
ICAM-1					
MCP-1					
uPAR					
PAI-1					
P-selectin					
FGF-basic					
IL-6					

Table SIII. Summary of inflammatory cytokines in TICAE and TIME cells at 24 and 72 h post-irradiation.

 No significant changes.

 A significant increase, when P<0.05.</td>

 A significant decrease, when P<0.05.</td>