Supplementary Data

Co-exposure to ionizing irradiation and high-fat diet induces low-grade neuroinflammation and neurovascular remodeling in the mouse hippocampus

Léa Ould Boukhitine[1], Chloé Brizais[1], Florence Bachelot[1], Yasmine Ebid[1], Imane Lahyouli[1], Chrystelle Ibanez[1], Imène Garali[1], Stéphane Grison[1], Mouna Chajadine[1], Justyne Feat-Vetel[1], Celine Gloaguen[1], Christelle Durand[1], Dmitry Klokov[1], Boris Manoury[2] and Teni G. Ebrahimian[1*]

[1] *Autorité de Sûreté Nucléaire et de Radioprotection, PSE-SANTE/SESANE/LRTOX, F-92262, Fontenay-aux-Roses Cedex, France*

[2] *Université Paris-Saclay, Inserm, UMR-S 1180, Orsay 91400, France*

***Corresponding author**: Dr. Teni Ebrahimian

ASNR, PSE-SANTE, SESANE, Laboratoire de Radiotoxicologie et Radiobiologie Expérimentale. Avenue de la Division Leclerc, BP17, 92262 Fontenay aux Roses, France

Tel: +33 (0)1 58 35 70 07; E-mail adress : teni.ebrahimian@asnr.fr

Supplementary figure S1

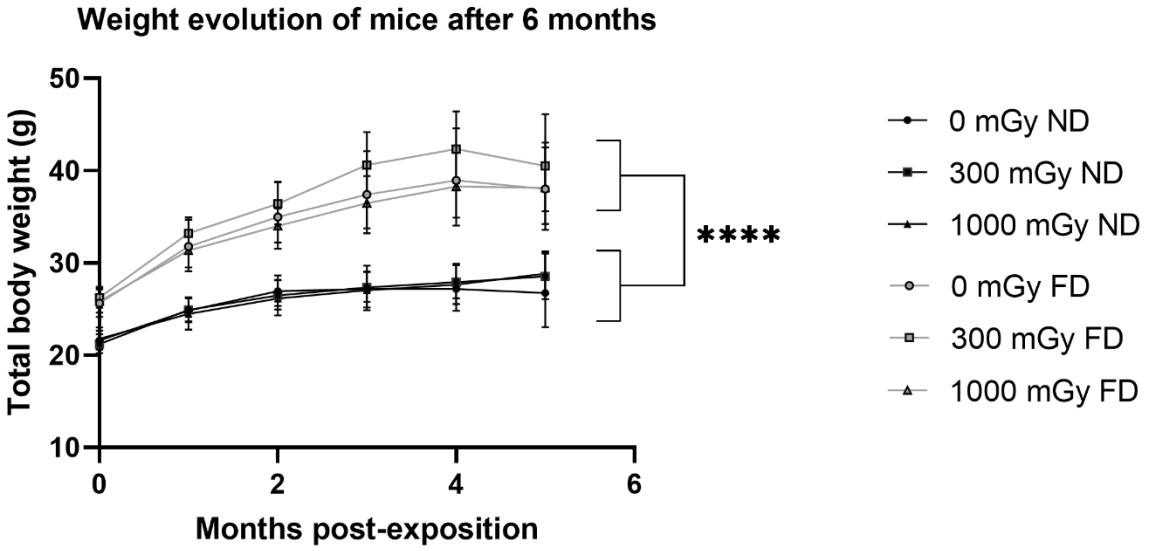
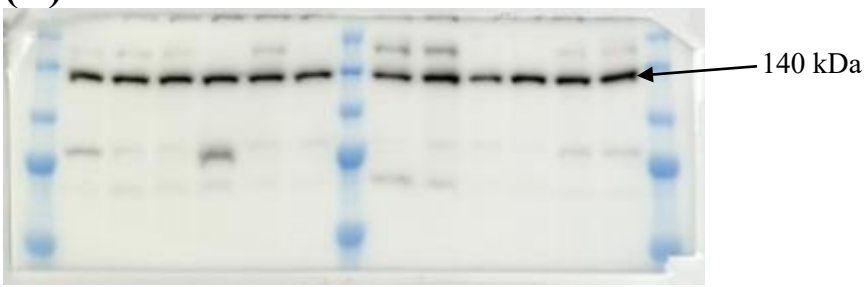


Fig S1. Weight evolution of mice during 6 months of HFD-feeding expressed as total body weight ± SD. n = 16-20 per group.

Supplementary figure S2

(A)



(B)

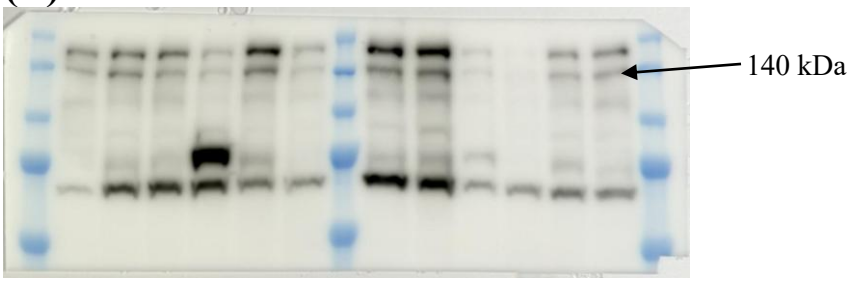


Fig S2 : Original blots for figure 3 of the article (A) for eNOS and (B) for pENOS

Supplementary figure S3

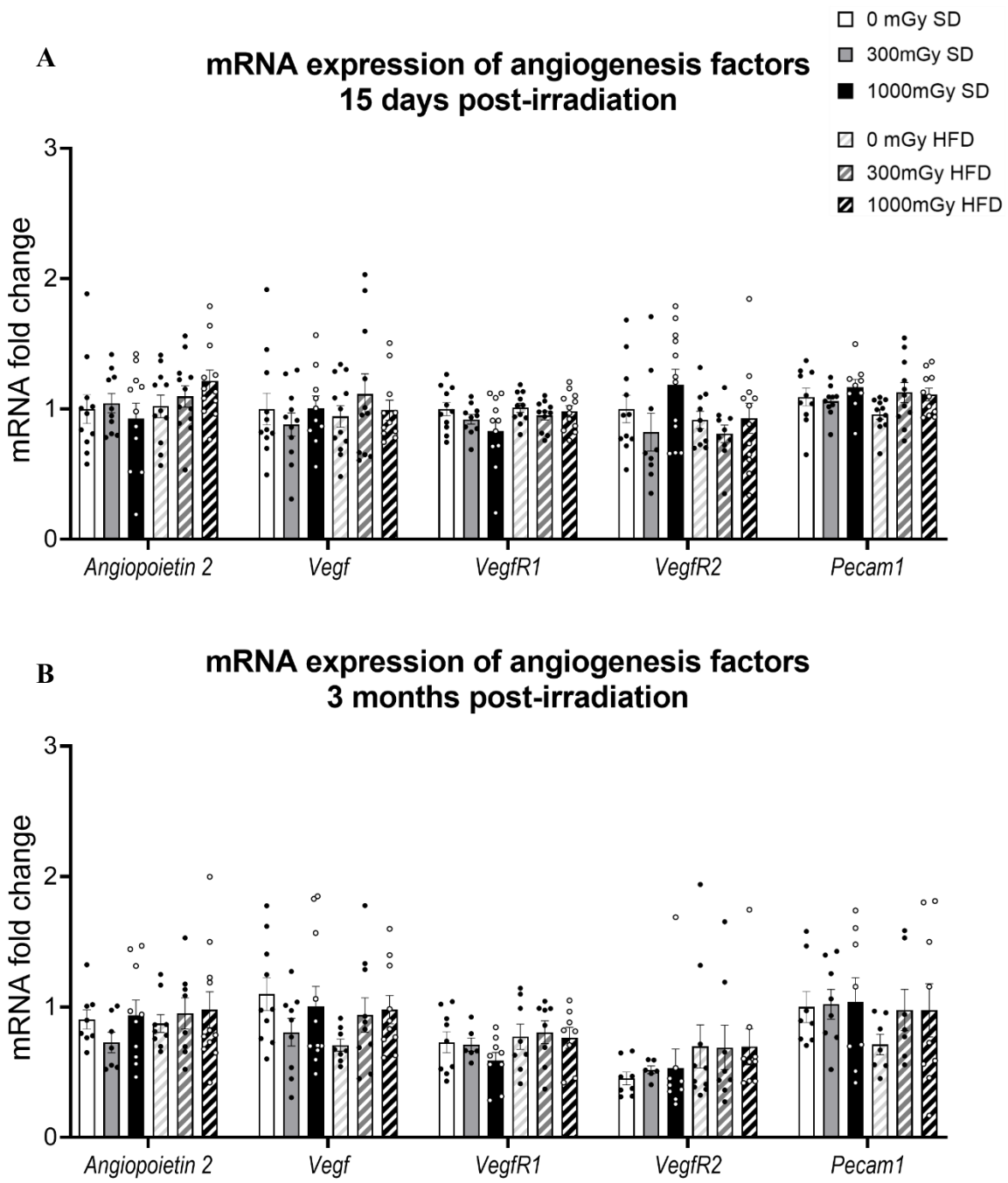


Fig S2. Relative mRNA expression of angiogenic factors (*Vegfa, Vegf-R1, Vegf-R2, Angpt2*) at (A) 15 days post-exposure and at (B) 3 months post-exposure determined by quantitative RT-PCR and expressed as fold change relative to non-exposed control mice ± SD. n = 9-12 per group.