

Figure S1. G2/M transition phase protein analysis: Chk2 data normalized for the internal control. The densitometric analysis was performed evaluating the p-Chk2/total Chk2 ratio, with respect to the unirradiated samples of each time point in absence of EcAII treatment (A) and with the administration of 1U/ml EcAII (B). Data reported are mean \pm SD, obtained from at least 3 independent experiments. Statistical significance (Student's t-test) is calculated comparing the w/o and w/EcAII conditions for each dose and time point and reported as follows: * $p < 0.05$, *** $p < 0.001$.

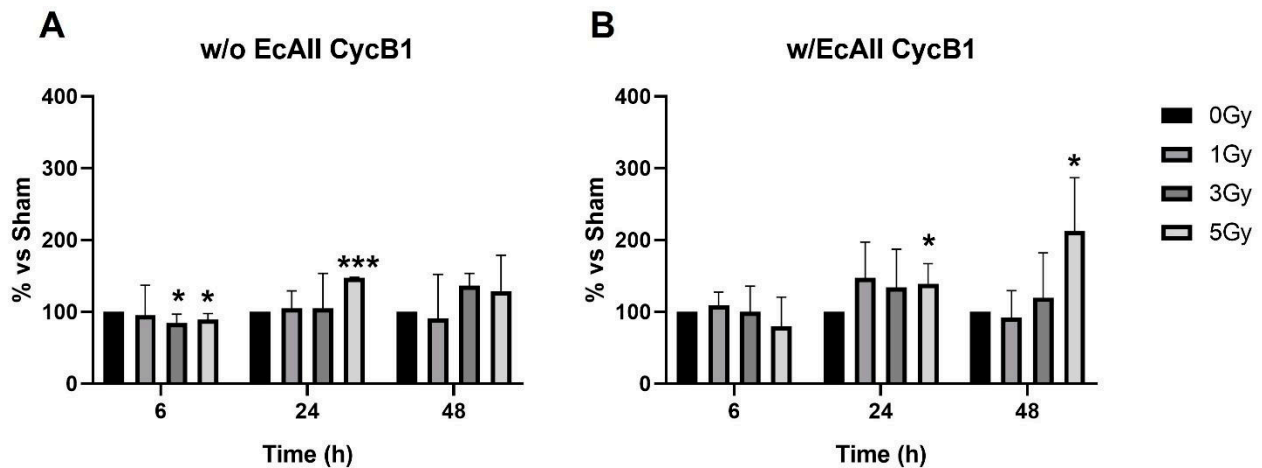


Figure S2. G2/M transition phase protein analysis: CycB1 data normalized for the internal control. The densitometric analysis was performed evaluating the CycB1 /GAPDH ratio, with respect to the unirradiated samples of each time point in absence of EcAII treatment (A) and with the administration of 1U/ml EcAII (B). Data reported are mean \pm SD, obtained from at least 3 independent experiments. Statistical significance (Student's t-test) is calculated comparing the w/o and w/EcAII conditions for each dose and time point and reported as follows: * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.

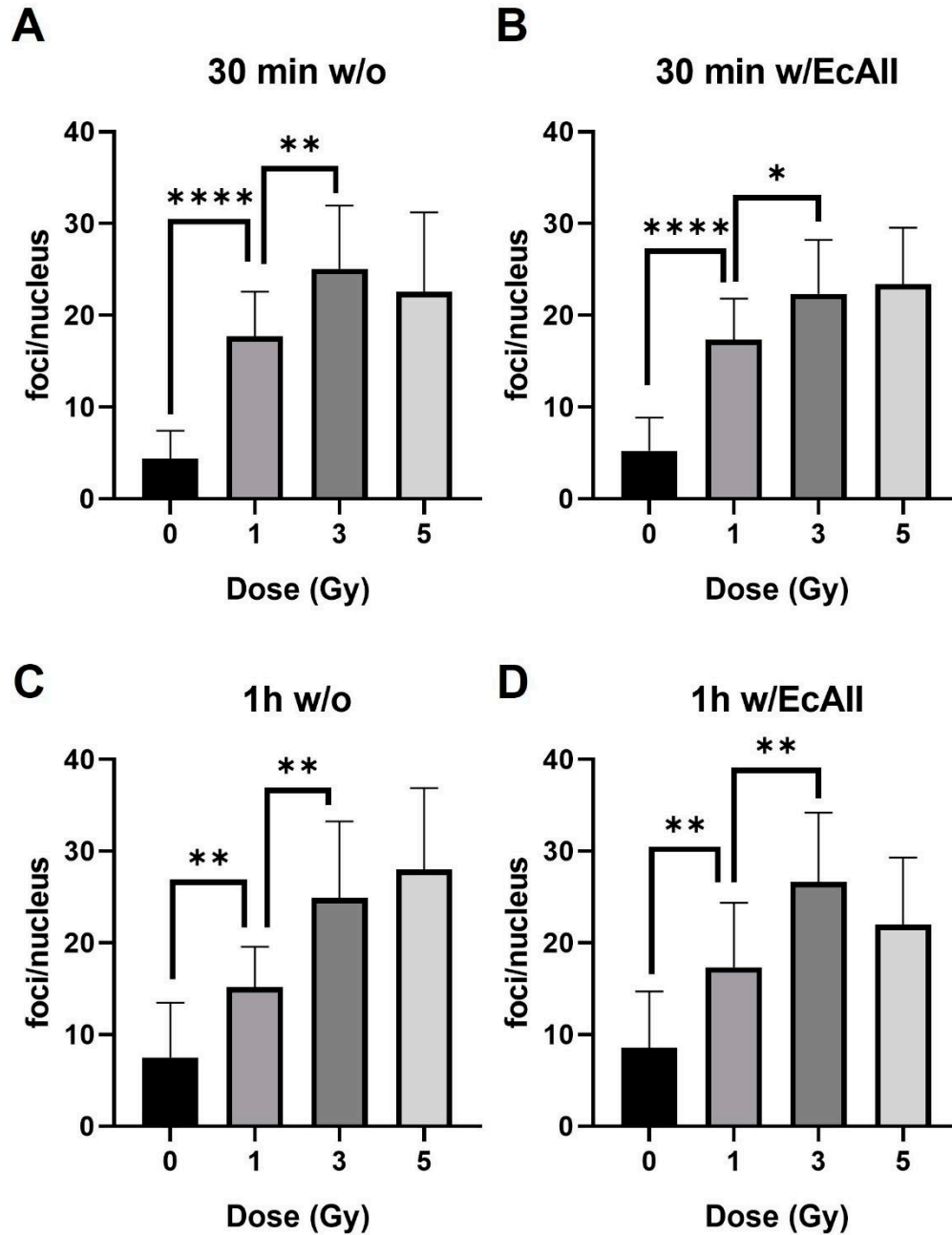


Figure S3. Count of γ H2AX foci per nucleus. The foci scoring was analysed in absence of EcAII treatment at 30 min (A) and 1h (C) after X-ray exposure or with EcAII treatment at 30 min (B) and 1h (D) after X-ray exposure. Data reported are mean \pm SD, obtained from at least 3 independent experiments. Statistical significance (Student's t-test) is calculated comparing the w/o and w/EcAII conditions for each dose and time point and reported as follows: * $p < 0.05$, ** $p < 0.01$, **** $p < 0.001$.

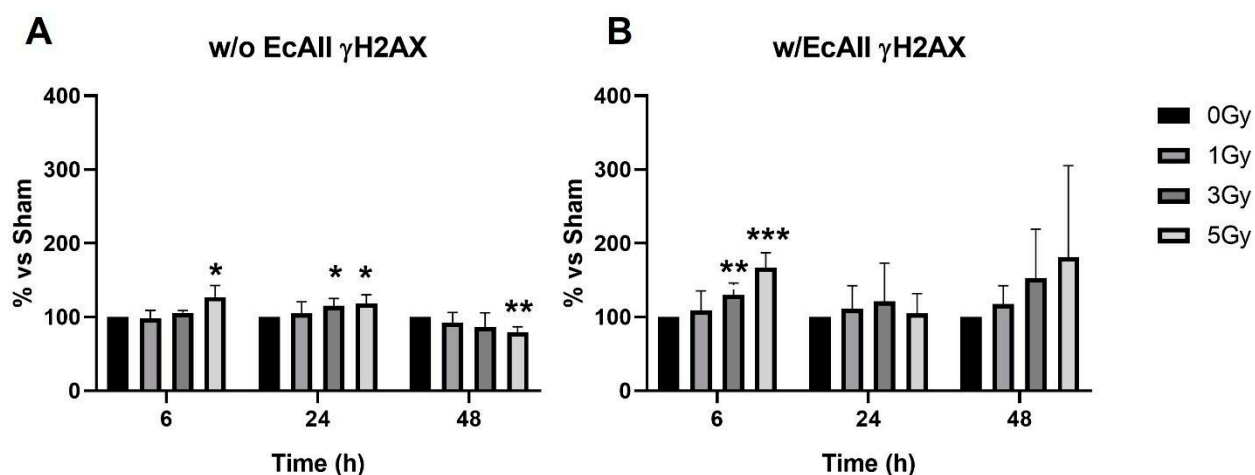


Figure S4. DNA damage marker analysis: γ H2AX data normalized for the internal control. The densitometric analysis was performed evaluating the γ H2AX/total H2AX ratio, with respect to the unirradiated samples of each time point in absence of EcAII treatment (A) and with the administration of 1U/ml EcAII (B). Data reported are mean \pm SD, obtained from at least 3 independent experiments. Statistical significance (Student's t-test) is calculated comparing the w/o and w/EcAII conditions for each dose and time point and reported as follows: *p < 0.05, ** p < 0.01, ***p < 0.001.

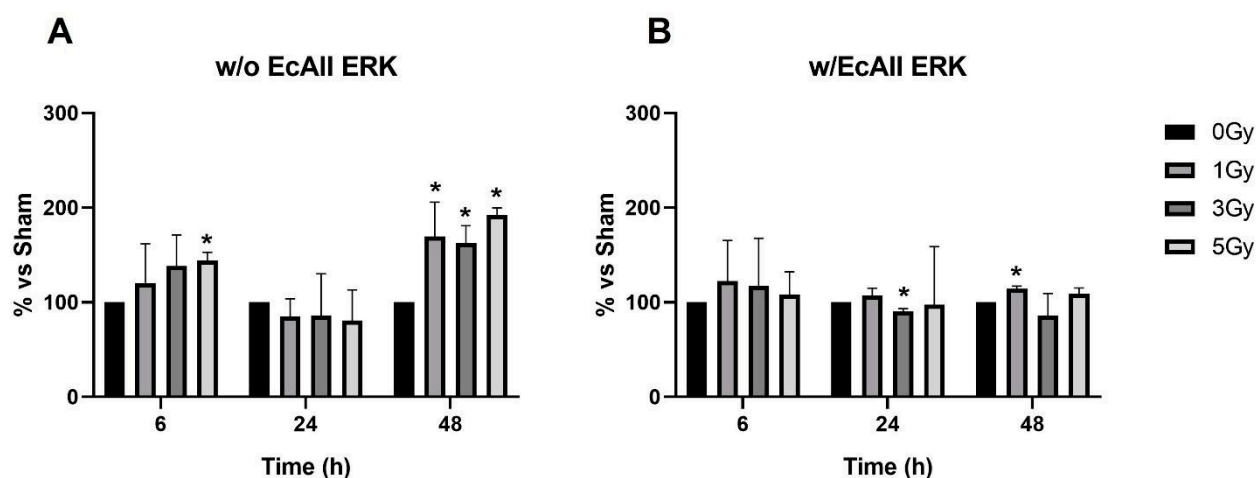


Figure S5. Metabolic response evaluation: ERK data normalized for the internal control. The densitometric analysis was performed evaluating the p-ERK/total ERK ratio, with respect to the unirradiated samples of each time point in absence of EcAII treatment (A) and with the administration of 1U/ml EcAII (B). Data reported are mean \pm SD, obtained from at least 3 independent experiments. Statistical significance (Student's t-test) is calculated comparing the w/o and w/EcAII conditions for each dose and time point and reported as follows: *p < 0.05.

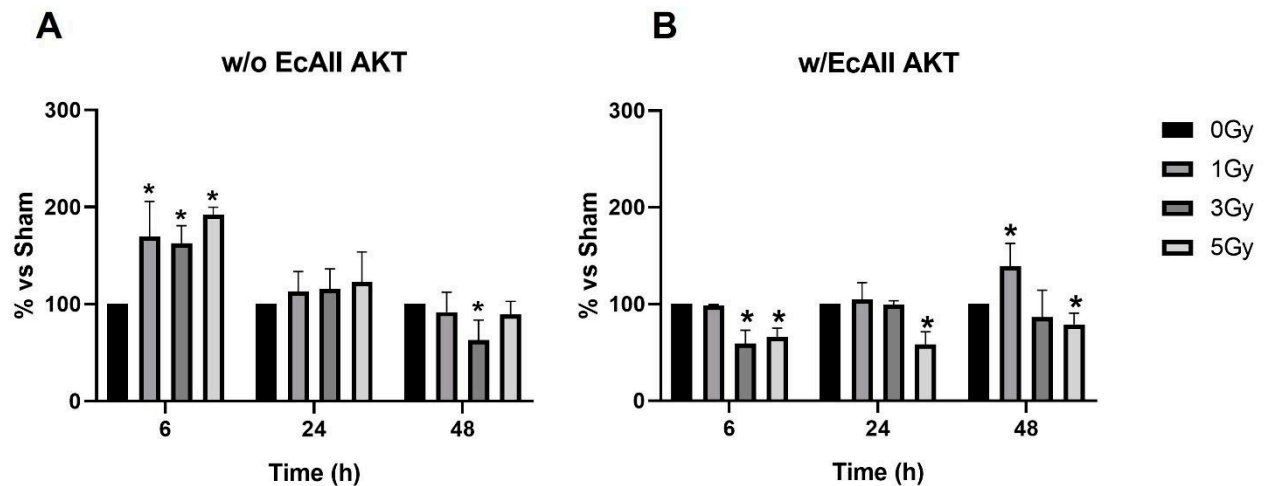


Figure S6. Metabolic response evaluation: Akt data normalized for the internal control. The densitometric analysis was performed evaluating the p-AKT/total AKT ratio, with respect to the unirradiated samples of each time point in absence of EcAII treatment (A) and with the administration of 1U/ml EcAII (B). Data reported are mean \pm SD, obtained from at least 3 independent experiments. Statistical significance (Student's t-test) is calculated comparing the w/o and w/EcAII conditions for each dose and time point and reported as follows: *p < 0.05.