

Carlessi et al, Functional and molecular defects of hiPSC-derived neurons from patients with ATM deficiency

Supplementary Fig. 1

hiPSCs were able to generate differentiated neurons through embryoid body and neural rosette formation and subsequent culture in a mitogen-free medium containing N2. After 10 days, a large number of β -Tubulin III and Map2 positive cells were present whereas only few GFAP-expressing cells were detected.

Supplementary Fig. 2

The G1/G2-M ratio before and 24 h after IR treatment is shown for each cell type and determined from the flow cytometric analysis of the DNA histograms depicted in Fig 4.

Supplementary Fig. 3

Primary fibroblasts, hiPSCs, proliferating hNPCs and postmitotic neurons (D30) were compared by Western blot for the expression of the DDR proteins RAD51, RAD50, MRE11, NBS1, and XRCC1. β -Actin was used as a loading control.

Supplementary Fig. 4

D30 post-mitotic Ctrl and A-T cells were treated with 5 Gy IR, collected after 24 h and analyzed for DNA content by flow cytometry. The percentage of sub-diploid apoptotic cells is indicated.

Sup. Fig.4

