

**Title:**

**Developing advanced biological models to study effects of low doses of ionizing radiation: our experience.**

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**Abstract:**

The biological effects of high doses of ionizing radiation are reasonably well studied and documented. Nevertheless, there is a clear lack of evidence concerning biological effects of Low Doses, namely at medical imaging levels, as those characterizing Nuclear Medicine and Radiology typical environments. Recognizing limitations and translational difficulties of the actual monolayer cellular models, our group has produced efforts to develop advanced biological models, namely using three-dimensional cell cultures and a less explored animal model (Zebrafish - which allow access to inter-generational data, while characterized by a great genetic homology).

This work aims to exhibit preliminary results already obtained.

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