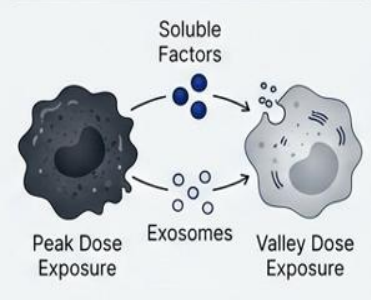


Development of a GRID Irradiation System for Pre-Clinical Spatially Fractionated Radiotherapy

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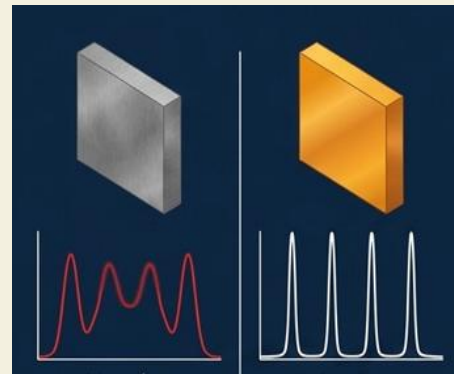
Research Objective



Providing precise spatial modulation (50–120 kVp) to investigate bystander and abscopal effects in pre-clinical *in vitro/in vivo* models.

Brass vs. Aluminum

Superior shielding and optimized "Peak-to-Valley" margins compared to Aluminum.



Monte Carlo validation

Monte Carlo (Penelope) simulations guided the design, ensuring technical feasibility while drastically reducing prototyping costs.

