



# Tumor targeting *Salmonella typhimurium* A1-R in combination with gemcitabine (GEM) regresses partially GEM-resistant pancreatic cancer patient-derived orthotopic xenograft (PDOX) nude mouse models

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**Tumor targeting *Salmonella typhimurium* A1-R in combination with gemcitabine (GEM)  
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patient-derived orthotopic xenograft (PDOX) nude mouse models**

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Running title: *S. typhimurium* A1-R overcomes GEM resistance in a pancreatic cancer PDOX

Key words: *Salmonella typhimurium* A1-R, pancreatic cancer, PDOX, nude mice, orthotopic,  
gemcitabine, combination, precision therapy

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