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when injected into immunocompromised mice. These cells harbor a single base-pair deletion in the *BRCA2* allele, which results in the expression of a truncated and dysfunctional protein. In addition, they have an oncogenic mutation in K-Ras (G12V) and an inactivating mutation in p53. These cells express elevated levels of the Epidermal Growth Factor Receptor (EGFR) and do not express SMAD4 protein (i.e., SMAD4-null). The Capan-1 cells are useful both as a xenograft model for pancreatic cancer and as a cell system to study the effects of BRCA2-deficiency.

## Source

This cell line was established in 1974 from a metastatic site (liver) in a 40-year-old Caucasian male with pancreatic ductal adenocarcinoma.

## Inventors

Jorgen Fogh, PhD, formerly at Sloan Kettering Institute, Memorial Sloan Kettering

## Key References

Fogh J et al. (1977) One hundred and twenty-seven cultured human tumor cell lines producing tumors in nude mice. *Journal of the National Cancer Institute* 59: 221-226 (PubMed ID: [327080](#))

Kyriazis AP et al. (1982) Human pancreatic adenocarcinoma line Capan-1 in tissue culture and the nude mouse: morphologic, biologic, and biochemical characteristics. *American Journal of Pathology* 106: 250-260 (PubMed ID: [6278935](#))

Deer EL et al. (2010) Phenotype and genotype of pancreatic cancer cell lines. *Pancreas* 39: 425-435 (PubMed ID: [20418756](#))

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Ready to use

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