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microvilli on the apical surface and display characteristic features of the proximal tubule epithelium. In addition, the Caki-1 cells are also a useful model to study renal cancer. They are more sensitive to 5-fluorouracil and sorafenib (multi-kinase inhibitor of VEGFRs 1-3, PDGFR-b and Raf-1) than the Caki-2 cells. The Caki-1 cells express wildtype von Hippel-Lindau (VHL) tumor-suppressor protein and are known to form tumors in immunocompromised mice.

Source

This cell line was established in 1971 from a metastatic site (skin) in a 49-year-old Caucasian male with clear cell carcinoma of the kidney.

Inventors

- Jorgen Fogh, PhD, formerly at Sloan Kettering Institute, Memorial Sloan Kettering
- Germain Trempe, formerly at Sloan Kettering Institute, Memorial Sloan Kettering

Key References

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- Miyake M et al. (2012) 5-fluorouracil enhances the antitumor effect of sorafenib and sunitinib in a xenograft model of human renal cell carcinoma. *Oncology Letters* 3: 1195–1202 (PubMed ID: [22783417](#))

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