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Epithelial and subepithelial players in chronic intestinal disease

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About the author

I was born in 1989 in China.

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Publications

- **Cui Y**, Zhang M, Leng C, Blokzijl T, Jansen BH, Dijkstra G*, Faber KN*. Pirfenidone inhibits cell proliferation and collagen I production of primary human intestinal fibroblasts. *Cells*. 2020 Mar 22; 9(3), 775.
- **Cui Y**, Klunder LJ, Blokzijl T, Leng C, van IJendoorn SCD, Dijkstra G, Faber KN, Cigarette smoke irreversibly decreases stemness, proliferation and differentiation capacity of the human colonic epithelium. Submitted
- **Cui Y**, Hu S, Blokzijl T, Dijkstra G, Faber KN. Cigarette smoke extract increases AOC3/VAP-1 expression in human stenotic intestinal tissue and primary human intestinal fibroblasts without enhancing their fibrotic phenotype. In preparation
- **Cui Y**, Bigaeva E, Blokzijl T, Dijkstra G, Faber KN. A subfraction of human intestinal enteroendocrine cells is characterized by high VAP-1 expression. In preparation
- Li X*, **Cui Y***, Sun Z, Zhang L, Li L, Wang X, Wu J, Fu X, Ma W, Zhang X, Chang Y, Nan F, Li W, Su L, Wang J, Xue H, Zhang M. DDGP versus SMILE in Newly Diagnosed Advanced Natural Killer/T-Cell Lymphoma: A Randomized Controlled, Multicenter, Open-label Study in China. *Clin Cancer Res*. 2016 Nov 1;22(21):5223-5228.
- **Cui Y**, Li X, Sun Z, Leng C, Young K, Wu X, Zhang L, Fu X, Li L, Zhang X, Chang Y, Nan F, Li Z, Yan J, Zhou Z, Zhang M, Li W, Wang G, Zhang D. Safety and efficacy of low-dose pre-phase before conventional-dose chemotherapy for ulcerative gastric diffuse large B-cell lymphoma. *Leukemia Lymphoma*. 2015; 56 (9): 2613-8.
- **Cui Y**, Sun Z, Li X, Leng C, Zhang L, Fu X, Li L, Zhang X, Chang YU, Nan F, Li Z, Yan J, Zhang M, Li W, Wang G, Zhang D, Ma Y. Expression and clinical significance of

cyclooxygenase-2 and interleukin-32 in primary gastric B-cell lymphoma. *Oncology Letters*. 2016 Jan;11(1): 693-698.

- Leng C, Overeem AW, Cartón-García F, Li Q, Klappe K, Kuipers J, **Cui Y**, Zuhorn IS, Arango D, van IJendoorn SCD. Loss of MYO5B expression deregulates late endosome size which hinders mitotic spindle orientation. *Plos Biology*. 2019 Nov 4;17(11): e3000531.
- Leng C, Li Y, Qin J, Ma J, Liu X, **Cui Y**, Sun H, Wang Z, Hua X, Yu Y, Li H, Zhang J, Zheng Y, Wang W, Zhu J, Wang Q. Relationship between expression of PD-L1 and PD-L2 on esophageal squamous cell carcinoma and the antitumor effects of CD8⁺ T cells. *Oncology Reports*. 2016 Feb; 35(2): 699-708.
- Zhou Z, Chen C, Li X, Li Z, Zhang X, Chang Y, Lu L, **Cui Y**, Ma Y, Zhang M. Evaluation of bone marrow involvement in extranodal NK/T cell lymphoma by FDG-PET/CT. *Ann Hematol*. 2015 Jun;94(6):963-7.
- Sun Z, Huang K, Fu X, Zhou Z, **Cui Y**, Li H. A chemically sulfated polysaccharide derived from *Ganoderma lucidum* induces mitochondrial-mediated apoptosis in human osteosarcoma MG63 cells. *Tumour Biol*. 2014 Oct;35(10):9919-26.
- Sun Z, Zhang D, **Cui Y**, Cheng L, Cao J, Wu X. Research on chemotherapy efficacy of twist gene on cervical cancer cells to paclitaxel. *Pak J Pharm Sci*. 2014 Sep;27(5 Suppl):1713-8.
- Leng C, Li Y, Liu X, Sun H, Wang Z, Yu Y, Li H, Zheng Y, Wang W, **Cui Y**. Neoadjuvant chemotherapy followed by combined thoracoscopic and laparoscopic esophagectomy in the treatment of esophageal cancer. *Chi J Thorac Cardiovasc Surg*, 2015 Sep; 31 (9): 519-522. (Chinese)