

Press Release Tokyo Future Style, Inc, April 20th 2017

Tokyo Future Style signs Distribution Agreement with Radboud University medical center, for the introduction of the human renal cell lines to use in transporter assays and drug toxicity screening which have been developed by the university.

Radboudumc



Tokyo Future Style, Inc

Tokyo Future Style, Inc (Tsukuba City, Japan) and Radboud University Medical Center (Nijmegen, the Netherlands) are pleased to announce having signed an agreement for distribution of human Renal cell lines that allow drug transport and drug toxicity screening developed by the university in Japan and Asian market.

Reliable prediction of drug-induced organ injury is a major issue during drug development. One out of three newly developed compounds leads to organ toxicity. Regarding drug-induced kidney injury, one out of five compounds leads to renal toxicity during phase-3 of drug development. The proximal tubular (PT) epithelium is responsible for reabsorption of filtered solutes and excretion of waste products and xenobiotics. The excretion of drugs is facilitated by drug transporters expressed on PT epithelial cells (PTEC). Consequently, PTEC is sensitive to drug-induced renal toxicity. Currently available PTECs have variable characteristics or express only a few drug transporters. On the other hand, primary PTEC can only yield a limited amount of material, as proliferation stops after a few passages and the cells dedifferentiate. Such models are not useful for highly predictive drug toxicity screening.

To overcome the limited availability of functional human PTEC, Radboud university medical center has developed a human cell model with PT characteristics, including multiple influx and efflux transporters, named conditionally immortalized human renal proximal tubule epithelial cell line (ciPTEC). ciPTEC is developed by using both SV40 large T antigen and hTERT to accomplish conditionally immortalization. ciPTEC maintains PT characteristics and proliferates for at least 60 passages. Further, ciPTEC stably expresses the functional drug transporters OCT2, MRP2/4, BCRP and Pgp,

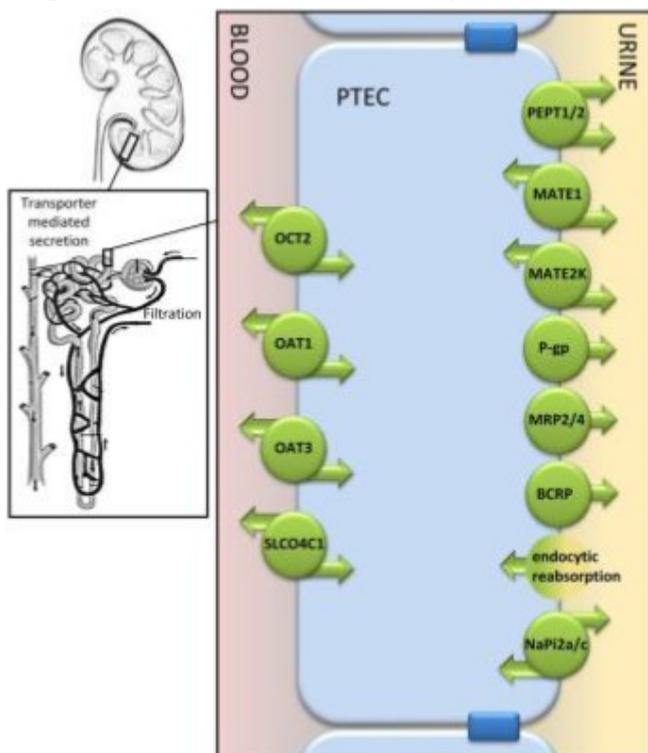
together with a functional receptor mediated endocytosis machinery. In addition, a next generation ciPTEC was developed with stably and functional OAT1 and OAT3 transport, completing the relevant renal drug transporter expression. Therefore ciPTEC, ciPTEC-OAT1 and ciPTEC-OAT3 are excellent tools for the identification of drug-induced renal toxicity and the prediction of potential drug-drug interactions in pharmacological research. ciPTEC is currently gathering many attentions as a novel platform for toxicity testing of lead compounds during drug development.

Features of ciPTEC

- Human origin
- Endogenous and stable expression of most renal transporters
- Stably introduced OAT1 and OAT3
- Functional assays for DDI and toxicity
- Stable for up to 60 passage numbers
- > 25 scientific publications in the fields of pharmacology, pathology and physiology

Applications for ciPTEC

- Drug-drug interaction studies
- Influx assays (OCT2, OAT1/3)
- Efflux assays (Pgp, BCRP, MRP4)
- Cell toxicity
- Phosphate reabsorption
- Receptor mediated endocytosis (megalin, cubilin)



ciPTEC: stable expression of relevant renal drug transporters.

From now, Tokyo Future Style, Inc. will mediate for licensing the cell lines, , further, mediating the custom service project at the university.

About Radboud University and Radboud UMC

Radboud university medical center is a leading academic center for patient care, education and research, with the mission ‘to have a significant impact on healthcare’. Our activities help to improve healthcare and consequently the health of individuals and of society. We believe we can achieve that by providing excellent quality, participatory and personalized healthcare, operational excellence and by working together in sustainable networks.

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About Tokyo Future Style, Inc.

Tokyo Future Style, Inc. is an international trading and marketing company located in the Tokyo area. TFS mission is to market and distribute novel and unique products and services from foreign biotech companies to academic and government institutions, and to research and development laboratories of major pharmaceutical, diagnostic and biotech companies in Japan and Taiwan.

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