

제 99회

ORGAN ON A CHIP

기술교류회

2023.09.14 목 오후 4시 30분

한림대학교 자연과학관 7103호



정초록 박사

한국생명공학연구원

1. Education

박사: 부산대학교 미생물학 (2001)
석사: 부산대학교 미생물학 (1997)
학사: 부산대학교 미생물학 (1995)

2. Experience

2006 ~ 현재	한국생명공학연구원, 책임연구원
2011 ~ 현재	한국과학기술연합대학교 대학원, 교수
2019 ~ 현재	식품의약품안전처, 정책심의위원
2018 ~ 2021	산업통상자원부, 산업기술 R&D 전략위 자문위원
2012 ~ 현재	과학기술정통부, 국가연구개발사업평가 민간위원

제목

한국생명공학연구원의 오가노이드 연구동향

Recent research trend in organoid & Bio-mimetic culture system at KRIBB

초록

Organoids, in vivo mimicking organs can recapitulates microenvironments of tissues thereby it could be suggested as the bridge model between animal and human. It also supports the research for the understanding the disease mechanism and developing therapeutics. However, the preclinical tests for the drug development mainly require the data from in vivo which is systematic integrated organs such as pharmacokinetics (PK) and pharmacodynamics (PD). Regarding this, a networking organoid culture system has been fabricated and then validated using the standard test chemicals. Moreover, for the utilization of organoids in the industry the quality controlled organoids must be supplied. To this end, the organoid QC-platform using transcriptome analysis have developed. KRIBB have done the research project name is "The networking organoid culture system for alternative experiments and the precise medicine" that including organoid, QC of organoid and integrated organoid culture system during 6 years. Here, I present that the aims and backgrounds and recent representative research products of this project to narrow down the gap animal and human, and another application of organoid technique for the future technique.

주 관 한림대학교 미래융합스쿨 융합신소재공학전공, 융합신소재공학연구소

후 원 한국연구재단 중견연구사업, 산업통상자원부 3D 생체조직칩 제품화사업

지 원 한림대학교 대학원 나노-메디컬 디바이스 공학 협동과정, 춘천바이오산업진흥원

문의처: de3553@hallym.ac.kr / Tel: 033-248-3557