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연구 분야

Neural stem cell biology
Neuroscience
Regenerative medicine

논문업적

1.주저자 (책임저자,제1저자) 논문 (발표년도 순)

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2.공동저자 논문

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II. 특허 업적

국가	발명명칭	발명자	출원번호	출원일자	등록번호	등록일자	상태
PCT	사람 전분화성 줄기세포 (human pluripotent stem cells; hPSC)로부터 3D 오르가노이드 (organoid) 배양기법을 이용하여 개선된 희소돌기교세포 병증 세포치료제와 생체 외 질병 모델 개발	이상훈, 우혜지, 장미윤	PCT/KR2020/018575	20201217			기술이전 (코아스템(주))
PCT	사람 전분화성 줄기세포 (human pluripotent stem	이상훈, 김	PCT/KR2020/018569	20201217			기술이전

	cells; hPSC)로부터 3D 오르가노이드 (organoid) 배양기법을 이용하여 인간 퇴행성 뇌질환 기전 연구에 이용될 미세교세포 개발	성원, 김수현, 장미윤					(코아스템(주))
대한민국	사람 전분화성 줄기세포 (human pluripotent stem cells; hPSC)로부터 3D 오르가노이드 (organoid) 배양기법을 이용하여 개선된 희소돌기교세포 병증 세포치료제와 생체 외 질병 모델 개발	이상훈, 우혜지, 장미윤	10-2020-0177530	20201217			기술이전 (코아스템(주))
대한민국	사람 전분화성 줄기세포 (human pluripotent stem cells; hPSC)로부터 3D 오르가노이드 (organoid) 배양기법을 이용하여 인간 퇴행성 뇌질환 기전 연구에 이용될 미세교세포 개발	이상훈, 김성원, 김수현, 장미윤	10-2020-0176786	20201216			기술이전 (코아스템(주))
PCT	사람 전분화성 줄기세포 (human pluripotent stem cells; hPSC)로부터 3D 오르가노이드 (organoid) 배양기법을 이용하여 개선된 파킨슨병 세포치료제 개발	이상훈, 장미윤, 김성원, 우혜지, Yanuar Alan Sulistio	PCT/KR2020/000581	20200113			기술이전 (코아스템(주))
대한민국	사람 전분화성 줄기세포 (human pluripotent stem cells; hPSC)로부터 3D 오르가노이드 (organoid) 배양기법을 이용하여 개선된 파킨슨병 세포치료제 개발	이상훈, 장미윤, 김성원, 우혜지	10-2019-0128602	20191016			기술이전 (코아스템(주))
미국	파킨슨병에서 중뇌성 성상교세포와 도파민신경줄기세포의 공동이식에 의한 도파민신경세포의 이식치료효과 개선	이상훈, 송재진, 장미윤	16/180,498	20181105			
대한민국	파킨슨병에서 중뇌성 성상교세포와 도파민신경줄기세포의 공동이식에 의한 도파민신경세포의 이식치료효과 개선	이상훈, 송재진, 장미윤	10-2018-0133544	20181102	10-2203034	등록 20210108	
유럽특허청	Lin28 유전자 발현을 이용해 이식시 재생능이 우수한 신경줄기세포 제조	이상훈, 이용희, 박장환, 장미	17738694.3	20180814			

		윤, 야누아르, 고지윤					
미국	Lin28 유전자 발현을 이용해 이식시 재생능이 우수한 신경줄기세포 제조	이상훈, 이용희, 박장환, 장미윤, 야누아르, 고지윤	16/035,318	20180713			
대한민국	Lin28 유전자 발현을 이용해 이식시 재생능이 우수한 신경줄기세포 제조	이상훈, 이용희, 박장환, 장미윤, 야누아르, 고지윤	10-2018-0069882	20180618	10-1971558	등록 20190417	
미국	Nurr1과 Foxa2의 glia세포 기능조절에 의한 염증성 신경질환 치료	이상훈, 오상민	15/442,473	20170224	10555972	등록 20200211	기술이전 (주식회사 이노퓨틱스)
대한민국	Nurr1과 Foxa2의 glia세포 기능조절에 의한 염증성 신경질환 치료	이상훈, 오상민	10-2017-0024870	20170224	10555972	등록 20200211	기술이전 (주식회사 이노퓨틱스)
대한민국	아밀로이드 베타 축적 및/또는 응집 억제 조성물 및 억제 방법	이상훈, 송재진, 양윤선, 김태균	10-2019-0060883 (보강특허): 10-2020-0006861	20190523 20200117			공동연구 특허출원 (주식회사 이노퓨틱스)
PTC	Composition and Method for Inhibiting Amyloid Beta Accumulation and/or Aggregation	Sang Hun LEE	PCT/KR2020/003439	20200312			공동연구 특허출원 (주식회사 이노퓨틱스)
미국	Composition and Method for Inhibiting Amyloid Beta Accumulation and/or Aggregation	Sang Hun LEE	16/898,187	20200610			공동연구 특허출원 (주식회사 이노퓨틱스)
대한민국	Lin28 유전자 발현을 이용해 이식시 재생능이 우수한 신경줄기세포 제조	이상훈, 이용희, 박장환, 장미윤, 야누아르, 고지윤	10-2017-0006141	20170113	10-1971557	등록 20190417	
대한	인간 신경줄기세포 및 신경세	이상훈, 이	10-2014-0038111	20140331	10-1604436	등록 20160311	

민국	포 배양시 적정한 인슐린 농도 결정	용희, 장미윤					
대한민국	독시싸이클린에 의한 인간 배아줄기세포 및 신경즐기세포의 생존력 향상	이상훈, 장미윤, 이용희	10-2014-0035610	20140326	10-1707149	등록 20170209	
대한민국	유전자발현량/시기 조절을 통한 도파민신경세포 기능향상 기술	이상훈, 박장환	10-2011-0146806	20111230	10-1358601	등록 20140127	
대한민국	Foxa2와 Nurr1에 의한 파킨슨병 치료용 최적 중뇌(Midbrain) 도파민 신경세포 제조	이상훈, 박장환, 이용성	10-2010-0063756	20100702	10-1544398	등록 20150807	
미국	Nurr1과 Foxa2 공동 발현유도에 의한 알쯔하이머 병 유전자 치료법 개발	이상훈, 오상민, 송재진, 양윤선					
대한민국	신경세포의 분화 또는 재생, 신경손상 또는 신경질환의 치료 효과가 있는 신규한 물질, 이의 제조방법 및 이를 포함하는 약학 조성물	이상훈, 박혜영, 정동주, 김진아, 김다롱	10-2014-0194235	20141230	101666727	등록 20161010	기술이전 (와이제이세라퓨틱스)

II. 기술이전 업적

번호	발명 명칭	국가	출원/등록 번호	출원/등록 일자	기술이전 대상 기업
1	Ｎｕｒｒ１과 Ｆｏｘａ２의 교질세포 기능 조절에 의한 염증성 신경질환 치료	대한민국	출원번호: 10-2017-0024870	출원일: 2017.01.13	주식회사 이노퓨틱스
2	Therapeutic Effects of Nurr1 and Foxa2 in Inflammatory Neurologic Disorders by M1-to-M2 Polarization of Glial Cells	미국	출원번호: 15/442,473	출원일: 2017.02.24	주식회사 이노퓨틱스
3	아밀로이드 베타 축적 및/또는 응집 억제 조성물 및 억제 방법	대한민국	출원번호: 10-2019-0060883 출원번호(보강특허): 10-2020-0006861	출원일: 2019.05.23 출원일: 2020.01.17	주식회사 이노퓨틱스
4	사람 전분화성 줄기세포로부터 3D 오르가노이드 배양기법을 이용하여 개선된 파킨슨병 세포치료제 개발	대한민국	10-2019-0128602	출원일: 2019.10.16	코아스템(주)
5	사람 전분화성 줄기세포로부터 3D 오르가노이드 배양기법을 이용하여 인간 퇴행성 뇌질환 기전 연구에 이용될 미세교세포 개발	대한민국	10-2020-0176786	출원일: 2020.12.16	코아스템(주)
6	사람 전분화성 줄기세포로부터 3D 오르가노이드 배양기법을 이용하여 개선된 희소돌기교세포 병증 세포치료제와 생체 외 질병 모델 개발	대한민국	10-2020-0177530	출원일: 2020.12.17	코아스템(주)
7	사람 전분화성 줄기세포 (human pluripotent stem cells; hPSC)로부터 3D 오르가노이드 (organoid) 배양기법을 이용하여 개선된 파킨슨병 세포치료제 개발	PCT	PCT/KR2020/000581	출원일: 2020.01.13	코아스템(주)

8	사람 전분화성 줄기세포 (human pluripotent stem cells; hPSC)로부터 3D 오르가노이드 (organoid) 배양기법을 이용하여 인간 퇴행성 뇌질환 기전 연구에 이용될 미세교세포 개발	PCT	PCT/KR2020/000581	출원일: 2020.12.17	코아스템(주)
9	사람 전분화성 줄기세포 (human pluripotent stem cells; hPSC)로부터 3D 오르가노이드 (organoid) 배양기법을 이용하여 개선된 희소돌기교세포 병증 세포치료제와 생체 외 질병 모델 개발	PCT	PCT/KR2020/018575	출원일: 2020.12.17	코아스템(주)
10	신경세포의 분화 또는 재생, 신경손상 또는 신경질환의 치료 효과가 있는 신규한 물질, 이의 제조방법 및 이를 포함하는 약학 조성물	대한민국	10-2014-0194235	출원일: 2014.12.30	와이제이세라퓨틱스