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* 부산대학교 도서관으로부터 Web of Science에 업로드 되는 논문을 제공 받아 소식지에 게재하고 있어 학회지에서 Web of Science에 업로드하는 시기에 따라 실제 논문 게재일과 차이가 있을 수 있습니다.

신규 선정 국가연구개발사업 현황

- 선정기간: 2025. 1. 1.~2025. 6. 30.
- 수행기관: 의학연구원

지원기관 (사업명)	소속	연구책임자	연구과제명	총연구기간	연구비 (단위:천원)
한국연구재단 (신진연구자인프라지원 사업)	의생명융합공 학부	김병수	바이오인공장기 및 생체전자장치를 결합한 바이오하이브리드시스템 개발을 위한 전기수력학 기반 3D 프린팅 장비 구축	2025.03.01. ~ 2026.02.28.	133,980
한국산업기술진흥원 (산업혁신인재성장지원 사업)	해부학교실	김윤학	(RCMS)바이오데이터산업전문인 력양성	2025.03.01. ~ 2027.02.28.	690,000
한국연구재단 (우수신진연구)	융합의학교실	이승현	일주기 리듬 교란이 면역반응과 후생유전학적 조절 기전에 미치는 영향 고찰 연구: 교대근무자 코호트 기반	2025.03.01. ~ 2028.02.29.	221,104
한국연구재단 (중견연구(유형1))	소아청소년과 학교실	전종근	신경염증 과정에서 TBK1 및 FBXW11에 의한 신경섬유소 분해	2025.03.01. ~ 2028.02.29.	251,304
한국연구재단 (우수신진연구)	이비인후과학 교실	최성원	(1단계)와우 대식세포 기반 아미노글리코사이드 유발 이독성 난청의 발병기전 규명 및 치료적 접근	2025.03.01. ~ 2028.02.29.	228,569
(재)범부처재생의료기 술개발사업단 (범부처재생의료기술개 발사업)	해부학교실	홍창완	재발성 아쿠아포린4 자가항체 매개 시신경척수염의 질병 완치를 위한 초정밀의학 CAART 세포·유전자 치료제 개발	2025.04.01. ~ 2027.12.31.	71,550
한국연구재단 (신진연구자지원사업(인문사회분야))	융합의학교실	박종환	생체신호와 가상현실을 활용한 폐암 환자 맞춤형 재활프로그램 기술개발 및 효과성 검증	2025-06-01. ~ 2028-05-31.	18,097
한국연구재단 (일반공동연구지원사업 (인문사회분야))	의학교육학교 실	윤소정	죽음 교육의 새로운 패러다임: VR을 활용한 IPE 기반 보건의료계열 교수-학습 모델 탐색	2025.06.01. ~ 2028.05.31.	90,487
한국연구재단 (기초연구실지원사업)	해부학교실	홍창완	NKT 세포 분화조절 기반 면역대사 제어 연구실	2025.06.01. ~ 2028.05.31.	500,000

연구과제 소식

양산부산대학교병원, ‘한국형 ARPA-H 프로젝트’ 선정

- 주 관 부 처: 보건복지부
- 사 업 명: 한국형 ARPA-H 프로젝트
- 연구과제명: 실시간 수술 상황과 의료진의 의도에 기반한 휴머노이드 수술 보조 로봇(SARAM-H, Surgical Assistant Robot using AI and Modular-Humanoid) 개발 및 임상 실증
- 연구책임자: 성의숙 교수(이비인후과학교실)
- 총연구기간: 2025. 7. 1.-2029. 12. 31.
- 총 연구 비: 154억



[성의숙 교수]

한국보건산업진흥원은 22일 양산부산대학교병원(병원장 이상돈) 성의숙 교수 연구팀(공동연구자 허성철교수, 이정수교수)이 진행하는 연구과제가 보건복지부가 추진하는 ‘2025년도 제1차 한국형 ARPA-H 프로젝트’에 최종 선정됐음을 밝혔다.

이번에 선정된 과제는 ‘실시간 수술 상황과 의료진의 의도에 기반한 휴머노이드 수술 보조 로봇(SARAM-H, Surgical Assistant Robot using AI and Modular-Humanoid) 개발 및 임상 실증’을 주제로, 주관연구개발 기관으로 양산부산대학교병원, 공동수행기관으로 부산대학교, 한국전자통신연구원, 분당서울대학교병원, 국립경상대학교병원, 뉴로메카, 퍼즐에이아이, 한국과학기술원 등이 2025년 7월부터 2029년 12월까지이다. 정부 지원금 141억 7천만 원을 포함해 총 154억 원 규모의 연구개발비가 투입될 예정이다.

SARAM-H는 수술 중 의료진의 음성 명령과 영상, 제스처 등 다양한 데이터를 인식하고, 견인, 흡인, 기구 전달 등의 반복적 수술 보조 작업을 자동으로 수행하는 인공지능 기반의 휴머노이드 수술보조로봇이다. 연구팀은 이러한 첨단 로봇 기술을 통해 수술실 환경의 효율성을 극대화하고, 의료진의 업무 부담을 줄이는 동시에 환자의 안전을 향상시키는 것을 목표로 하고 있다.

특히 이번 연구는 단순한 기술 개발을 넘어, 수술 기록 자동화, 감염 예방, 응급 수술 대응 강화 등 다양한 병원 운영 효율화를 기대할 수 있으며, 의료 인력이 부족한 지역이나 재난 상황에서도 원격 수술 보조 기술로의 활용 가능성이 높을 것으로 예상된다. 특히 상급종합병원, 공공의료기관, 군병원 등에서의 실용화가 가능하며, 향후 일본, 싱가포르, 동남아 등 고령화 및 의료인력 부족이 심각하거나 의료 인건비가 높은 북미 또는 유럽 등 해외 시장 진출도 모색할 수 있을 것으로 기대하고 있다.

총괄 책임연구자인 의과대학 이비인후과 성의숙 교수는 “연구팀이 개발하고자 하는 휴머노이드 수술 보조 로봇이 완성되면 고질적으로 문제가 되는 지역 의료인력 부족에 따른 수술 지연이 어느정도 해소될 수 있을 것이며, 수술 과정에서 보조 과정을 대체함으로써 수련의들은 보다 양질의 수련환경을 경험할 수 있을 것으로 기대한다”고 말했다.

이번 호의 논문

Melatonin synergizes with prostaglandin E2 to enhance YAP-mediated regenerative epithelial cell emergence during intestinal repair

교신저자 **김윤학⁽¹⁾, 김형식⁽²⁾**

(1)부산대학교 의과대학 해부학교실 부교수, (2)부산대학교 치의학전문대학원 치의생명과학과 교수

제 1저자(학내연구자): 치의생명과학연구소 서유진, 안지수, 의학연구원 이한송

만장상피는 빠른 재생이 필요한 조직으로서, 손상 시에는 정상 줄기세포가 손상되어도 장기능 회복을 위해 다양한 대체 세포가 활성화됩니다. 특히, 손상에 반응하여 나타나는 revival stem cell(RSC)은 prostaglandin E2(PGE2)-YAP 신호를 통해 유도되며 장 재생에 핵심적인 역할을 수행합니다. 하지만 이러한 손상 대응 줄기세포의 활성화를 유도하는 새로운 기전을 찾는 것은 여전히 도전적인 과제입니다.

본 연구에서는 장 내분비세포에서 분비되는 **멜라토닌(melatonin)**의 새로운 역할에 주목했습니다. 멜라토닌이 장 상피세포의 증식을 억제하고 휴지 상태(quiescence)를 유도하면서도, 손상 시에는 재생 능력을 강화한다는 점을 발견했습니다. 마우스 소장 오가노이드 및 단일세포 전사체 분석 결과, 멜라토닌은 장 상피세포의 줄기성(stemness)을 높이고 YAP 활성화를 통해 손상 반응성 상피세포의 출현을 촉진하는 것으로 확인되었습니다. 특히, PGE2와 멜라토닌을 병용했을 때 RSC의 유도가 현저히 증가하고 장 재생이 크게 개선되는 시너지 효과가 관찰되었습니다.

마우스 대장염 모델에서도 멜라토닌과 PGE2의 병용 투여가 상피 회복을 가속화하고 YAP의 활성화를 조기에 유도함으로써 빠른 기능 회복에 기여하는 것을 확인하였습니다. 본 연구는 멜라토닌을 장 손상 재생 과정의 새로운 조절자로 규명하고, 기존 PGE2-EP4-YAP 경로와의 상호작용을 통해 장 재생 치료 전략으로서의 가능성을 제시하였다는 데 큰 의의가 있습니다.

해당 연구 결과는 세계적 학술지 **Signal Transduction and Targeted Therapy** (IF=40.8) 2025년 5월에 게재되었습니다.

소식지 내용에 대한 의견이 있으시면 e-mail을 보내주시기 바랍니다.

- 추가하면 좋을 내용, 발행주기, 지면 구성에 대한 내용, 배포 범위(현재 의치한/병원 교수에 배포) 등
- e-mail 주소 : myjudel@naver.com (부산대학교 의학연구원)

수행기관이 의학연구원인 연구과제의 간접비 사용

- 부산대학교의 간접비 징수 비율 : 국가연구개발사업 연구과제의 경우 20.65% (과제 발주기관에 따라 간접비가 연구비에 추가되거나 포함되어 있음, 기타 지원기관은 비율이 상이함)
- 간접비 배분
 - 산학협력단 40%
 - 의학연구원 40%
 - 부산대학교 본부(대학기본경비) 20%
- 의학연구원에 배정된 간접비의 배분
 - 연구책임자 : 50% (현금 및 현물로 연구자가 사용함)
 - 의학연구원 : 15% (사무원 인건비 등 최소한의 경비가 사용되는 수준임)
 - 의과대학 (혹은 연구책임자의 소속 대학) : 35%
(단, 의학연구원 내 연구센터에 10% 배정될 경우 소속 대학으로 25% 배정됨)
- 의과대학으로 배정된 간접비의 사용
 - 대형 연구기자재 구입 지원
 - 동물실험시설 확충 지원
 - 연구지원인력 인건비 지원
 - 대형 연구과제 유치를 위한 연구회 지원
 - 교수 연구력 향상을 위한 활동 지원 (세미나 개최 등)
- 의과대학의 최근 3년간 간접비 사용 내역

(단위 : 원)

구 분		2022년	2023년	2024년
이 월 액		376,414,100	329,634,547	366,124,998
간접비 배정액		113,074,427	125,689,641	127,152,133
지출총액		159,853,980	455,324,188	493,277,131
지 출 총 액 세 부 내 역	연구지원인력 인건비	73,931,420	88,899,190	99,162,190
	중장기기실 홈페이지 제작	-	-	20,000,000
	실험동물센터 지원	-	-	-
	의대공간공사지원	-	-	-
	회의비	-	300,000	-
	대형연구기자재구매지원	82,027,100	-	-
	대형연구과제신청지원	3,895,460	-	-
잔 액(이월액)		329,634,547	366,124,998	374,114,941

- 안내 말씀
 - 교수님들께서 수주하신 연구비의 간접비 상당 부분이 의과대학의 연구력 향상을 위해서 사용되고 있습니다.
 - 교수님들께서는 병원, 타 연구소 등 다른 기관에서 수행해야 할 불가피한 사유가 없으면 의학연구원을 통해서 과제를 수행해 주시기를 부탁드립니다.