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이번 호의 우수 논문

Dysadherin/YAP axis fuels stem plasticity and immune escape in liver cancer

교신저자 **김형식**

부산대학교 치의학전문대학원 구강생화학교실 교수

제1저자(공동연구자) : GIST 생명과학부 장태영, 전소엘 박사과정생

참여저자(공동연구자) : GIST 남정석 교수 (공동 교신저자)

간암(Hepatocellular Carcinoma)은 전 세계적으로 사망률이 매우 높은 악성 종양으로, 치료 후에도 재발이 잦고 기존 항암제는 물론 최신 면역항암제에도 잘 반응하지 않는 경우가 많다. 이는 암 조직 내에 항암 치료에도 살아남는 암 줄기세포(Cancer Stem Cells)가 존재하고, 암세포 주변이 면역세포의 활동을 억제하는 환경으로 구성되어 있기 때문이다. 그러나 이 두 가지 악성 특징을 동시에 조절하는 근본적인 원인 인자는 그동안 명확히 규명되지 않았다.

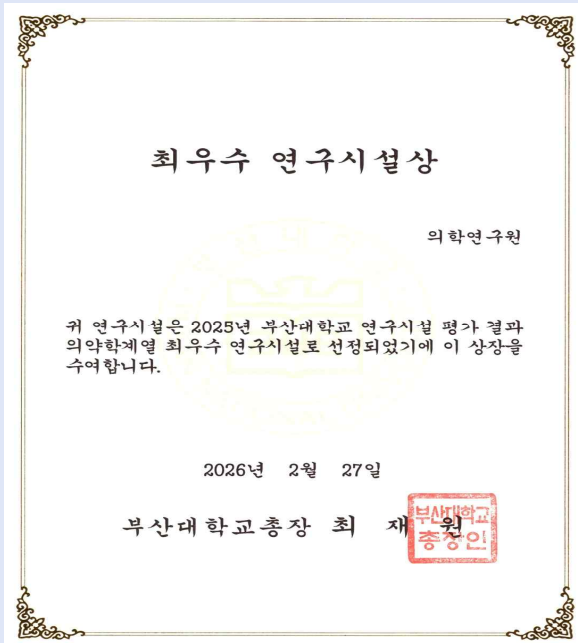
본 연구에서는 세포막 당단백질인 '디스에드헤린(Dysadherin)'이 간암에서 YAP 신호를 활성화하는 핵심 상위 조절인자임을 새롭게 규명하였다. 간암 환자 유전체 데이터 분석 및 단일세포 전사체 분석을 통해, 디스에드헤린이 정상 조직에 비해 종양 조직에서 높게 발현되며 발현이 높을수록 환자의 생존율이 낮고 예후가 불량함을 확인하였다. 기존 연구에서는 디스에드헤린이 인테그린-FAK 신호를 통해 YAP의 핵 내 이동을 촉진하고, YAP-TEAD2 복합체가 암 줄기세포 관련 유전자(OCT4, KLF4, SOX2 등)의 전사를 활성화함을 밝혔다. 또한, 동일한 YAP-TEAD2 기전을 통해 면역 관문 단백질인 PD-L1의 발현도 증가시켜, 면역세포(T세포)의 암세포 공격을 억제하는 면역 회피 환경이 조성됨을 확인하였다.

디스에드헤린 억제 펩타이드를 간암세포 이식 마우스 모델에 투여하는 실험을 세포실험과 병행한 결과, 억제 펩타이드가 암 줄기세포 특성을 억제하고 면역세포의 암세포 공격을 활성화시킴으로써 종양 성장을 뚜렷하게 감소시켰으며, 항암제(소라페닙)에 대한 감수성도 회복시킴을 확인하였다. 이번 연구는 간암 치료의 주요 난제인 약물 내성과 면역 회피가 디스에드헤린이라는 하나의 단백질로 연결되어 있음을 규명한 것으로, 향후 디스에드헤린을 표적으로 하는 새로운 간암 치료 전략 개발에 중요한 기초를 제공할 것으로 기대된다. 본 연구 결과는 2025년 12월 [Signal Transduction and Targeted Therapy (Impact Factor 52.7, 생화학 및 분자생물학 분야 1위)]에 게재되었다.

의학연구원 소식

연구시설 평가 「최우수 연구시설상」 - 의약학계열 1위

1



의학연구원 소식

의생명 · 의학 분야 연구 활성화를 위한 업무 협약 체결

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의학연구원 업무 협약 체결 현황

- ❖ 부산대학교병원 의생명연구원
- ❖ 양산부산대학교병원 의생명융합연구원
- ❖ 한국해양과학기술원 해양자원·환경연구본부
- ❖ 동남권원자력의학연 연구센터
- ❖ 프레스티지바이오파마IDC
- ❖ (주)스템덴
- ❖ (주)팜캐드



의학연구원 소식

2025 올해의 연구자상 시상식 개최



■ 목 적

- 의과대학 교수(병원 임상교수 포함) 중에서 연구 및 학문 분야에서 뛰어난 성과를 이룬 연구자들을 발굴하기 위하여 올해의 연구자상을 공모.
- 올해의 연구자상 4인 시상

■ 일 시 : 2026. 2. 12.(목) 16:30

■ 장 소 : 부산 농심호텔 대청홀

■ 주 최 : 부산대학교 의학연구원, 부산대학교 의과대학

■ 후 원 : 의료법인 은성의료재단, 인당의료재단

■ 올해의 연구자상 수상자

- 인당 의학상 : **전종근** 교수 (의과대학 소아청소년과학교실)
- 은성 의학상 : **홍창완** 교수 (의과대학 해부학교실)
- 인당 젊은연구자상 : **오창규** 교수 (의과대학 생화학교실)
- 은성 젊은연구자상 : **박경준** 교수 (의과대학 핵의학교실)

☆ 올해의 연구자상 경과

- 올해의 연구자상 공모 (2025. 12. 3. - 12. 11.)
- 인당 의학상 12명, 은성 의학상 2명, 인당 젊은연구자상 1명, 은성 젊은연구자상 11명 응모
- 심사 및 선정 (2025. 12. 12.)



앞줄 왼쪽부터 구자성 은성의료재단 이사장, (수상자) 박경준 교수, 홍창완 교수, 오창규 교수, 전종근 교수, 강대환 해운대 부민병원장, 조원호 의과대학장

의학연구원 학술 행사

의학연구원 심포지엄 개최 (2026년 3월 6일)

2026

부산대학교 의학연구원 심포지엄

“From Genes to AI”

◎ 일시: 2026년 03월 06일(금) 15:30-17:35

◎ 장소: 통합행정동 116호



진행 : 손동현 교수

Time	Title	Speaker
15:00-15:30	등록	
15:30-15:35	인사말	배순식 의학연구원장
15:35-16:05	Antagonistic functions of calcium-calmodulin dependent protein kinase kinase 2 in ferroptosis	용정식 미네소타대학교
16:05-16:35	Ret finger protein deficiency attenuates adipogenesis in male mice with high fat diet-induced obesity	국현 전남대학교
16:35-17:05	Seeing diseases as it happens in vivo: The power of intravital microscopy	김필한 KAIST
17:05-17:35	AI는 도구, 생명은 질문이다: 의과학자가 바라본 인공지능 연구의 본질	신현우 서울대학교
17:35-17:40	Lucky Draw	

【주최】



부산대학교
의학연구원

MO Cafe
Medical Ocean Cafe



부산대학교 의과대학
Grand 융합의과학 교육 연구단

문의: 서형주, 051-510-8105, myjudel@naver.com

2026년 1월 ~ 3월 신규 부산대학교 의과대학 및 병원 연구자 SCIE 논문 (총 246편)

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손은정[제1저자]. Clinical Outcomes in Patients With COPD With Disease Stability: Data from the Korean COPD Subgroup Study Cohort. CHEST 2026. [총 저자수 10]

김상수[교신저자]. Health Effects of Sugar-Sweetened and Artificially Sweetened Beverages: Umbrella Review and Evidence-Based Consensus Statement of the Korean Diabetes Association and the Korea Nutrition Society. Diabetes and Metabolism Journal 2026;50(1):32-46. [총 저자수 11]

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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.

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