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2025년 7월 ~ 9월 신규 부산대학교 의과대학 및 병원 연구자 SCIE 논문 (총 154편)

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2025년 7월 ~ 9월 신규 부산대학교 치의학전문대학원 및 병원 연구자 SCIE 논문 (총 18편)

박현주[제1저자]; 김미경[제1저자]; 김연; 배수경; 김형준; 배문경[교신저자]. Postbiotics Derived from *Lactococcus lactis* and *Streptococcus thermophilus* Attenuate Experimental Periodontitis by Modulating Macrophage Polarization and Osteoclastogenesis. *NUTRIENTS* 2025;17(16). [총 저자수 9]

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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.

의학연구원 연구자 수상 소식

조유나 연구교수

제 24회 한국로레알-유네스코 여성과학자상-펠로십부문 수상



사진(출처_유네스코한국위원회): 시상식 모습

조유나 의학연구원 연구교수가 유네스코한국위원회와 로레알코리아가 후원하고, 여성생명과학기술포럼이 주관하는 '제24회 한국 로레알-유네스코 여성과학자상'을 수상했다. 시상식은 7월 16일 서울 송파구 소피텔 엠배서더 호텔에서 개최되었으며, 조유나 연구교수는 신진 여성과학자에게 주어지는 펠로십 부문 수상자로 선정됐다.

조유나 의학연구원 연구교수는 부산대학교 의과대학 홍창완 교수 (연구부학장/해부학교실 교수)의 지도 아래 종양 미세환경에서 T세포 기능이 저하되는 면역억제 기전을 규명하고, 이를 표적으로 하는 차세대 CAR-T 세포를 개발하여 고형암 치료의 새로운 전략을 제시한 연구 성과를 인정받았다. 특히 기존 CAR-T 세포 치료가 혈액암에 비해 고형암에서 효과가 제한적이라는 점에 착안하여, T세포 활성화·대사·전사 조절을 기반으로 항암 면역반응을 강화하는 연구를 지속해 오고 있다.

수상자는 종양 미세환경에서의 T세포 매개 항암 면역반응 조절 기전을 심층적으로 규명하며, Mol Ther (2024), Cell Mol Immunol (2020b), Cancers (2020), Immune Network (2019), Int J Cancer (2018), Int J Mol Sci (2018) 등 다수의 국제학술지에 연구 결과를 발표하였다. 또한 IL-4, IL-13 등 사이토카인 신호와 T 세포 반응의 상호작용을 규명하는 연구를 통해 Redox Biol (2025), Cell Commun Signal (2023), Int J Biol Sci (2023), Cell Mol Life Sci (2022), Cell Mol Immunol (2020a), J Immunol (2019) 등에서 지속적인 연구성과를 인정받았다.

이와 같은 연구들은 면역대사 및 전사체 조절을 기반으로 한 새로운 항암 면역치료 전략으로 이어졌으며, 기존 면역세포치료제의 한계를 극복하고 정밀 면역치료의 적용 가능성을 확장하는 데 중요한 기여를 하고 있다. 이에 따라 조유나 연구교수는 전국의 여성과학자들 가운데 탁월한 연구성과를 창출하고 항암면역 분야 발전에 기여한 업적을 인정받아 본 상을 수상하게 되었다.

이번 호의 논문

A Wearable Electrochemical Biosensor for Salivary Detection of Periodontal Inflammation Biomarkers: Molecularly Imprinted Polymer Sensor with Deep Learning Integration

교신저자 **김윤학⁽¹⁾**, **홍석원⁽²⁾**

(1)부산대학교 의과대학 해부학교실 부교수, (2)부산대학교 광메카트로닉스공학과 교수

제 1저자(학내연구자) : 광메카트로닉스공학과 전상헌

참여저자(학내연구자) : 허경화, 채선영, 권영우, 이신규, 한동욱, 김현주, 의학연구원 허혜진,

치주질환은 전 세계적으로 높은 유병률을 보이는 구강 염증성 질환으로, 조기 발견 및 치료 시기 결정이 매우 중요하다. 기존의 치주질환 진단은 임상적 평가에 의존하기 때문에 질병의 초기 생화학적 변화를 포착하기 어렵다는 한계가 있었다.

본 연구에서는 침에서 치주염의 대표적 염증 바이오마커인 MMP-8을 실시간으로 고감도 검출할 수 있는 웨어러블 전기화학적 바이오센서를 개발하였다. 고선택적 인식이 가능한 분자 인프린팅 고분자(MIP) 기반 전극에 그래핀 산화물(GO) 인터레이어를 적용하여 감도를 향상시켰으며, 딥러닝 기반 신호 분석 알고리즘을 접목하여 진단 정확도를 높였다.

특히 반자동 제조 공정을 통해 대량 생산이 가능함을 입증하였고, 환자 침 시료를 이용한 임상 검증에서 높은 특이도와 재현성을 보였다. 또한 구강 보호대 형태의 웨어러블 디바이스로 구현되어, 비침습적·연속적 구강 염증 모니터링이 가능하다는 점에서 향후 치주질환의 조기 진단 및 개인맞춤 치료 관리에 크게 기여할 수 있을 것으로 기대된다.

본 연구 결과는 국제학술지 Advanced Science (IF = 14.1) 에 게재되었다.

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.