

Contents

p.2-7 2021년 7월 신규 SCI급 논문 (76편)

p.8 지난 개최 세미나

p.9 이 달의 논문

(Investigation for biomechanical and biochemical characteristic changes of kidney, liver and duodenum tissues according to inflation time of REBOA)

NEWS

2021년 7월 신규 검색 부산대학교 의과대학 및 병원 연구자 SCIE 논문 (총 76편)

최정현. Association between Aortic Valve Calcification Progression and Coronary Atherosclerotic Plaque Volume Progression in the PARADIGM Registry. RADIOLOGY 2021;300:(1):79-86. [총 저자수 30]

김성현. The long-acting C5 inhibitor, ravulizumab, is effective and safe in pediatric patients with atypical hemolytic uremic syndrome naive to complement inhibitor treatment. KIDNEY INTERNATIONAL 2021;100:(1):225-237. [총 저자수 10]

김관희. Type I IFN signaling limits hemorrhage-like disease after infection with Japanese encephalitis virus through modulating a prerequisite infection of CD11b+Ly-6C+ monocytes. JOURNAL OF NEUROINFLAMMATION 2021;18. [총 저자수 7]

유동만[first]; 허엽; 왕일재[corresponding]; 이치승[corresponding]. Investigation for biomechanical and biochemical characteristic changes of kidney, liver and duodenum tissues according to inflation time of REBOA. MATERIALS & DESIGN 2021;205. [총 저자수 5]

김은주; 정나연. Identifying novel genetic variants for brain amyloid deposition: a genome-wide association study in the Korean population. ALZHEIMERS RESEARCH & THERAPY 2021;13:(1). [총 저자수 31]

허진. Plant callus-derived shikimic acid regenerates human skin through converting human dermal fibroblasts into multipotent skin-derived precursor cells. STEM CELL RESEARCH & THERAPY 2021;12:(1). [총 저자수 10]

하홍구[corresponding]. Polymer-dispersed reduced graphene oxide nanosheets and Prussian blue modified biosensor for amperometric detection of sarcosine. ANALYTICA CHIMICA ACTA 2021;1175:(1). [총 저자수 11]

박여진[first]; 이봉기; 김대현; 하수경; 유학선; 정해영[corresponding]. PAR2 Deficiency Induces Mitochondrial ROS Generation and Dysfunctions, Leading to the Inhibition of Adipocyte Differentiation. OXIDATIVE MEDICINE AND CELLULAR LONGEVITY 2021;2021:(1). [총 저자수 9]

류제호. Outcomes after liver transplantation in Korea: Incidence and risk factors from Korean transplantation registry. Clinical and Molecular Hepatology 2021;27:(3):451-462. [총 저자수 19]

레티홍반[first]; 권상모[corresponding]. Vascular Endothelial Growth Factor Biology and Its Potential as a Therapeutic Target in Rheumatic Diseases. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES 2021;22:(10). [총 저자수 2]

최선희[first]; 이해림; 정영일[corresponding]. Caffeic Acid Phenethyl Ester-Incorporated Radio-Sensitive Nanoparticles of Phenylboronic Acid Pinacol Ester-Conjugated Hyaluronic Acid for Application in Radioprotection. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES 2021;22:(12). [총 저자수 9]

이지웅. Comparison of the Safety and Efficacy between Preserved and Preservative-Free Latanoprost and Preservative-Free Tafluprost. PHARMACEUTICALS 2021;14:(6). [총 저자수 11]

정성수. Exposure to Polyhexamethylene Guanidine Exacerbates Bronchial Hyperresponsiveness and Lung Inflammation in a Mouse Model of Ovalbumin-Induced Asthma. ALLERGY ASTHMA & IMMUNOLOGY RESEARCH 2021;13:(4):655-664. [총 저자수 12]

최병관. Operating room scheduling considering surgeons' preferences and cooperative operations. COMPUTERS & INDUSTRIAL ENGINEERING 2021;157. [총 저자수 4]

박현준. A Global Survey of Reproductive Specialists to Determine the Clinical Utility of Oxidative Stress Testing and Antioxidant Use in Male Infertility. WORLD JOURNAL OF MENS HEALTH 2021;39:(3):470-488. [총 저자수 71]

신용일. Cerebrolysin Combined with Rehabilitation Enhances Motor Recovery and Prevents Neural Network Degeneration in Ischemic Stroke Patients with Severe Motor Deficits. JOURNAL OF PERSONALIZED MEDICINE 2021;11:(6). [총 저자수 8]

이봉은. Variations in Clinical Practice of Esophageal High-resolution Manometry: A Nationwide Survey. Journal of Neurogastroenterology and Motility 2021;27:(3):347-353. [총 저자수 8]

송진영[first]; 류현일; 이정명; 배성환; 이재우; 이창렬[corresponding]; 박상민[corresponding]. Conformal Fabrication of an Electrospun Nanofiber Mat on a 3D Ear Cartilage-Shaped Hydrogel Collector Based on Hydrogel-Assisted Electrospinning. NANOSCALE RESEARCH LETTERS 2021;16:(1). [총 저자수 7]

김두리[first]; 송승환; 김권민; 장재혁; 탁영진; 허엽; 조정수; 박종환[corresponding]. Effects of ICT-Based Multicomponent Program on Body Composition and Cognitive Function in Older Adults: A Randomized Controlled Clinical Study. CLINICAL INTERVENTIONS IN AGING 2021;16:(1):1161-1171. [총 저자수 11]

김미현; 윤성훈. Sequential treatment of afatinib and osimertinib or other regimens in patients with advanced non-small-cell lung cancer harboring EGFR mutations: Results from a real-world study in South Korea. CANCER MEDICINE 2021. [총 저자수 17]

조해령[first]; 이영신; 윤은정; 강치덕; 배재호[corresponding]. Differential Effects of Histone Deacetylases on the Expression of NKG2D Ligands and NK Cell-Mediated Anticancer Immunity in Lung Cancer Cells. MOLECULES 2021;26:(13). [총 저자수 7]

신호진. Clinical characteristics and prognostic factors of acquired haemophilia A in Korea. HAEMOPHILIA 2021. [총 저자수 19]

정지은[first]; 이주용; 박혜련; 강지완; 김윤학; 이지혜[corresponding]. MicroRNA-133 Targets Phosphodiesterase 1C in Drosophila and Human Oral Cancer Cells to Regulate Epithelial-Mesenchymal Transition. JOURNAL OF CANCER 2021;12:(17):5296-5309. [총 저자수 6]

Kamil, Gilyazetdinov[first]; 윤주영; 유석동; 전종근[corresponding]. Clinical relevance of targeted exome sequencing in patients with rare syndromic short stature. ORPHANET JOURNAL OF RARE DISEASES 2021;16:(1). [총 저자수 4]

박종환. Association between objectively measured sleep duration and physical function in community-dwelling older adults. JOURNAL OF CLINICAL SLEEP MEDICINE 2021;17:(3):515-520. [총 저자수 8]

김미진[first]; 김보현[corresponding]. Current Guidelines for Management of Medullary Thyroid Carcinoma. *Endocrinology and Metabolism* 2021;36:(3):514-524. [총 저자수 2]

김보현; 김미진. A Multicenter, Randomized, Controlled Trial for Assessing the Usefulness of Suppressing Thyroid Stimulating Hormone Target Levels after Thyroid Lobectomy in Low Intermediate Risk Thyroid Cancer Patients MASTER: A Study Protocol. *Endocrinology and Metabolism* 2021;36:(3):574-581. [총 저자수 29]

김미진[first]; 김보현[corresponding]. Clinicopathological Characteristics and Recurrence-Free Survival of Rare Variants of Papillary Thyroid Carcinomas in Korea: A Retrospective Study. *Endocrinology and Metabolism* 2021;36:(3):619-627. [총 저자수 13]

최광동[first]; 김정연; 최서영; 오은혜; 이현민; 노지은; 최재환[corresponding]. Case Report: Meniere's Disease-Like Symptoms in 22q11.2 Deletion Syndrome. *FRONTIERS IN NEUROLOGY* 2021;12. [총 저자수 7]

서동수[first]; 송용중; 최경운; 김기형[corresponding]. Preoperative Blood Inflammatory Markers for the Differentiation of Uterine Leiomyosarcoma from Leiomyoma. *CANCER MANAGEMENT AND RESEARCH* 2021;13:5001-5011. [총 저자수 8]

류제호. A comparative study of postoperative outcomes between minimally invasive living donor hepatectomy and open living donor hepatectomy: The Korean organ transplantation registry. *SURGERY* 2021;170:(1):271-276. [총 저자수 17]

변익수. Retro mode illumination for detecting and quantifying the area of geographic atrophy in non-neovascular age-related macular degeneration. *EYE* 2021. [총 저자수 6]

이지웅[first]; 신종훈. Differences in the eyelid and buccal microbiome between open-angle glaucoma and uveitic glaucoma. *ACTA OPHTHALMOLOGICA* 2021. [총 저자수 5]

신원철[first]; 이상민; 장재훈; 강준호; 문남훈[corresponding]. Importance of firm isthmic fixation in high-energy induced subtrochanteric fracture of the femur: retrospective observational study in a level I trauma center. *EUROPEAN JOURNAL OF TRAUMA AND EMERGENCY SURGERY* 2021. [총 저자수 5]

김예린[first]; 김기욱; 이정희; 김덕원; 정재현; 김영대; 신동훈; 이민기; 신용일; 이상률[corresponding]. Cancer Testis Antigen, NOL4, Is an Immunogenic Antigen Specifically Expressed in Small-Cell Lung Cancer. *CURRENT ONCOLOGY* 2021;28:(3):1927-1937. [총 저자수 10]

김아롱; 김지연. Programmed Death Ligand 1 Immunohistochemistry in Triple-Negative Breast Cancer: Evaluation of Inter-Pathologist Concordance and Inter-Assay Variability. *JOURNAL OF BREAST CANCER* 2021;24:(3):266-279. [총 저자수 13]

조아름[first]; 김혜진[corresponding]; 이현정; 김해규; 도왕석; 강크리스틴; 김예슬. Changes in the microvascular reactivity during spinal anesthesia. *MICROVASCULAR RESEARCH* 2021;137. [총 저자수 7]

신민관[first]; 김윤지; 김태경; 강동묵[corresponding]. Effects of Long Working Hours and Night Work on Subjective Well-Being Depending on Work Creativity and Task Variety, and Occupation: The Role of Working-Time Mismatch, Variability, Shift Work, and Autonomy. *INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH* 2021;18:(12). [총 저자수 4]

이승민[first]; 장철훈; 변익수[corresponding]. Intravitreal injection of povidone-iodine for the treatment of vancomycin-resistant *Enterococcus faecalis* endophthalmitis in rabbit eyes. EXPERIMENTAL EYE RESEARCH 2021;208. [총 저자수 4]

김권민. Multi-Component Intervention Program on Habitual Physical Activity Parameters and Cognitive Function in Patients with Mild Cognitive Impairment: A Randomized Controlled Trial. INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH 2021;18:(12). [총 저자수 6]

이은수[first]; 김영기[corresponding]. Asbestos Exposure Level and the Carcinogenic Risk Due to Corrugated Asbestos-Cement Slate Roofs in Korea. INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH 2021;18:(13). [총 저자수 2]

신중훈[first]; 김성준; 김진미. Visual Field Inference From Optical Coherence Tomography Using Deep Learning Algorithms: A Comparison Between Devices. TRANSLATIONAL VISION SCIENCE & TECHNOLOGY 2021;10:(7). [총 저자수 4]

조한진. Percutaneous Left Atrial Appendage Occlusion Yields Favorable Neurological Outcomes in Patients with Non-Valvular Atrial Fibrillation. KOREAN CIRCULATION JOURNAL 2021;51:(7):626-638. [총 저자수 29]

김경원[first]. EEG microstate features for schizophrenia classification. PLOS ONE 2021;16:(5). [총 저자수 4]

신호진. Age and remission induction therapy for acute myeloid leukemia: An analysis of data from the Korean acute myeloid leukemia registry. PLOS ONE 2021;16:(5). [총 저자수 10]

박경준[first, corresponding]; 이명준; 김근영; 김인주. The association of DAT gene methylation with striatal DAT availability in healthy subjects. EJNMMI RESEARCH 2021;11:(1). [총 저자수 7]

김효진. Smart Decentralization of Personal Health Records with Physician Apps and Helper Agents on Blockchain: Platform Design and Implementation Study. JMIR MEDICAL INFORMATICS 2021;9:(6). [총 저자수 11]

김일영[first]; 박연경; 송상현; 성은영; 이동원; 배순식; 이수봉[corresponding]. Role of Akt1 in renal fibrosis and tubular dedifferentiation during the progression of acute kidney injury to chronic kidney disease. KOREAN JOURNAL OF INTERNAL MEDICINE 2021;36:(4):962-974. [총 저자수 7]

이가현[first, corresponding]; 김지영; 김현우; 조재욱. Comparisons of clinical characteristics, brain MRI findings, and responses to epidural blood patch between spontaneous intracranial hypotension and post-dural puncture headache: retrospective study. BMC NEUROLOGY 2021;21:(1). [총 저자수 4]

안진희. The Impact of Personal Thoracic Impedance on Electrical Cardioversion in Patients with Atrial Arrhythmias. MEDICINA-LITHUANIA 2021;57:(6). [총 저자수 9]

김효진. Serum uric acid is associated with coronary artery calcification in early chronic kidney disease: a cross-sectional study. BMC NEPHROLOGY 2021;22:(1). [총 저자수 9]

이창형[first]; 김인혜[corresponding]. Aquatic Exercise and Land Exercise Treatments after Total Knee Replacement Arthroplasty in Elderly Women: A Comparative Study. MEDICINA-LITHUANIA 2021;57:(6). [총 저자수 2]

박범찬; 김희연; 최준용; 천진홍; 김기봉[corresponding]. Efficacy and safety of fermented oyster extract for height of children with short stature: A randomized placebo-controlled trial. Integrative Medicine Research 2021;10:(2). [총 저자수 8]

안진희. Does merged three-dimensional mapping improve contact force and long-term procedure outcome in atrial fibrillation ablation? MICRO-AF study: a prospective randomized controlled study. INTERNATIONAL JOURNAL OF CARDIOVASCULAR IMAGING 2021. [총 저자수 7]

김근영[solo]; 김성장[corresponding]. Diagnostic Values of 8 Different Imaging Modalities for Preoperative Detection of Axillary Lymph Node Metastasis of Breast Cancer A Bayesian Network Meta-analysis. AMERICAN JOURNAL OF CLINICAL ONCOLOGY-CANCER CLINICAL TRIALS 2021;44:(7):331-339. [총 저자수 3]

노지연[first]; 엄중섭; 이민기; 윤성훈; 김미현[corresponding]. Prognostic Factors of Second-line Immune Checkpoint Inhibitors in Patients With Advanced-stage Non-Small Cell Lung Cancer A Multicenter, Retrospective Study. AMERICAN JOURNAL OF CLINICAL ONCOLOGY-CANCER CLINICAL TRIALS 2021;44:(7):356-360. [총 저자수 12]

배미주[first]; 이충원; 허엽; 진모란; 권훈. Overlapping stent insertion for a treatment-resistant seroma after arteriovenous fistulation using prosthetic grafts. JOURNAL OF VASCULAR ACCESS 2021. [총 저자수 6]

정미진[first]; 강신애; 최준호; 이다인; 유학선[corresponding]. Extracellular vesicles of Echinococcus granulosus have therapeutic effects in allergic airway inflammation. PARASITE IMMUNOLOGY 2021. [총 저자수 5]

전두수; 목정하[corresponding]. Additional Drug Resistance in Patients with Multidrug-resistant Tuberculosis in Korea: a Multicenter Study from 2010 to 2019. JOURNAL OF KOREAN MEDICAL SCIENCE 2021;36:(26). [총 저자수 7]

유동호[first]; 최민수; 이병주; 신용범; 윤진아; 김상훈[corresponding]. Identification of acquired tracheoesophageal fistula after tracheostomy decannulation by videofluoroscopic swallowing study A case report. MEDICINE 2021;100:(13). [총 저자수 6]

이정욱[first]; 김수진; 최철웅[corresponding]; 김형진; 강대환; 김형욱; 박수범; 남형석; 유대곤. Seven-day triple therapy is sufficient to eradicate infection caused by Helicobacter pylori without 23S rRNA point mutation. MEDICINE 2021;100:(21). [총 저자수 9]

이태범[first]; 양광호; 고효정; 심재룡; 최병현; 이정희; 류제호[corresponding]. Successful defibrotide treatment of a patient with veno-occlusive disease after living-donor liver transplantation A case report. MEDICINE 2021;100:(25). [총 저자수 7]

김희영[first]; 안지수; 박세연; 최은지; 이현수; 윤지욱; 변경조[corresponding]. Comparison of catheter-over-needle and catheter-through-needle methods in ultrasound-guided continuous femoral nerve block A prospective, randomized controlled trial. MEDICINE 2021;100:(26). [총 저자수 7]

김현우. Psychomotor Speed Predicts Outcome in Patients with Acute Meningitis and Encephalitis: A Prospective Observational Study. CLINICAL EEG AND NEUROSCIENCE 2021. [총 저자수 5]

홍정민[first]; 한윤희; 이도원; 황부영; 백지석; 조아름; 이현정; 김은수[corresponding]. Comparison of efficacy between palonosetron-midazolam combination and palonosetron alone for prevention of postoperative nausea and vomiting in patients undergoing breast surgery and patient controlled analgesia A prospective, randomized, double-blind study: A CONSORT-compliant study. MEDICINE 2021;100:(26). [총 저자수 8]

이범구; 손동현. Myeloid IPMK promotes the resolution of serum transfer-induced arthritis in mice. Animal Cells and Systems 2021. [총 저자수 7]

손은정[first]; 장진욱; 조우현; 김도형; 여혜주[corresponding]. Successful lung transplantation after prone positioning in an ineligible donor: a case report. GENERAL THORACIC AND CARDIOVASCULAR SURGERY 2021. [총 저자수 5]

하대룡[first]; 이기욱; 신기혁; 고현창; 김병수; 김문범; 김훈수[corresponding]. Deeply Located Infantile Hemangioma with Rapid Growth Resembles Malignancy. Annals of Dermatology 2021;33:(4):390-391. [총 저자수 7]

윤형준[first]; 김기형. Effects of thymosin beta 4-derived peptides on migration and invasion of ovarian cancer cells. Genes & Genomics 2021. [총 저자수 12]

이정환[first]; 이재일; 김동환; 남경협; 전태진; 한인호[corresponding]. Validation of a gyroscope-based wearable device for real-time position monitoring of patients in a hospital. TECHNOLOGY AND HEALTH CARE 2021;29:(4):843-848. [총 저자수 6]

오승환[corresponding]. Compound Heterozygous PIGT Mutations in Multiple Congenital Anomalies-Hypotonia-Seizures Syndrome: First Case in Korea and Characterization by Persistent Hypophosphatasia. ANNALS OF CLINICAL AND LABORATORY SCIENCE 2021;51:(3):422-425. [총 저자수 6]

정성운[first]; 배미주[corresponding]; 이충원; 허엽; 진모란; 김민수; 전창호. Surgical Experience of Behcet's Disease Involving the Peripheral Artery. ANNALS OF VASCULAR SURGERY 2020;69:():246-253. [총 저자수 7]

김성동; 문수진; 조규섭[corresponding]. The Clinical and Radiologic Features Affecting the Ocular Symptoms in Patients With Paranasal Sinus Mucoceles Involving the Orbit. JOURNAL OF CRANIOFACIAL SURGERY 2021;32:(3):E247-E251. [총 저자수 6]

정인숙[corresponding]; 우승훈; 정혁재; 현수경. 당뇨병성 발궤양 발생 위험 예측모형과 노모그램 개발. JOURNAL OF KOREAN ACADEMY OF NURSING 2021;51:(3):280-293. [총 저자수 7]

이태범[first]; 고효정; 심재룡; 최병현; 류제호; 양광호[corresponding]. ABO-Incompatible Living Donor Liver Transplantation With a Simplified Desensitization and Immunosuppression Protocol: A Single-Center Retrospective Study. EXPERIMENTAL AND CLINICAL TRANSPLANTATION 2021;19:(7):676-685. [총 저자수 6]

이미란[first]; 이나래; 배미혜; 한영미[corresponding]; 박경희; 변신연; 김충락. Using lactate dehydrogenase to predict the severity of respiratory distress in term newborn infants with no perinatal asphyxia. TURKISH JOURNAL OF PEDIATRICS 2021;63:(3):393-403. [총 저자수 7]

2021년 3월~7월의 논문은 메일의 첨부파일 참조 (총 418편)

NEWS

연구력 향상 세미나 5차

Organelle Ca²⁺ homeostasis and Autophagic Degradation

- 주 제 : Organelle Ca²⁺ homeostasis and Autophagic Degradation
- 연 자 : 박규상 교수 [연세대 원주의과대학]
- 일 시 : 2021년 7월 30일(금) 오후 4시
- 장 소 : 의과대학 313호 세미나실(온라인 병행)



NEWS

연구력 향상 세미나 6차

Peptides as a platform for targeted cancer therapeutics

- 주 제 : Peptides as a platform for targeted cancer therapeutics
- 연 자 : 이병헌 교수 [경북대학교 의과대학]
- 일 시 : 2021년 8월 4일(수) 오후 4시
- 장 소 : 의과대학 314호 세미나실(온라인 병행)



NEWS

이 달의 논문

제 목 : Investigation for biomechanical and biochemical characteristic changes of kidney, liver and duodenum tissues according to inflation time of REBOA

제 1저자(학내연구자): 의학연구원 유동만 연구교수

교신저자(학내연구자): 응급의학교실 왕일재 교수, 융합의학교실 이치승 교수

참여저자(학내연구자): 흉부외과학교실 허업 교수

이 논문은 대량 출혈의 응급 처치 시 대동맥에 삽입되는 REBOA(Resuscitative Endovascular Balloon Occlusion of Aorta)의 지속 시간에 따른 신장, 간, 십이지장 조직의 생체역학적 (Biomechanical) 및 생화학적 특성 변화를 실험적으로 분석한 논문이다. 응급의학교실 왕일재 교수와 흉부외과학교실 허업 교수는 돼지의 “Aortic Zone 1”에 REBOA를 삽입한 후, 이의 지속 시간에 따른 신장, 간, 십이지장 조직의 생화학적 수치 변화를 관찰하였으며, 융합의학교실 이치승 교수, 미시간주립대 기계공학과 백승익 교수, 의학연구원 유동만 연구교수는 REBOA의 지속 시간에 따른 이들 조직들의 생체역학적 물성 변화를 분석하였다.

핵심 내용을 보면, REBOA의 지속 시간이 증가할수록 혈중요소질소(Blood urea nitrogen), 크레아티닌(Creatinine), 아스파르테이트아미노전이효소(Aspartate aminotransferase), 젖산(Lactate) 수치가 증가하였으며, 이 가운데 신장 기능과 연관성이 큰 젖산의 수치 증가가 두드러졌다. 한편, 생화학적 수치 변화와 생체역학적 물성 변화의 상관관계를 살펴보기 위해 이들 조직에 대한 기계적 특성시험(Mechanical test)을 수행하였다. 그 결과, 신장 조직의 경우, REBOA의 지속 시간이 증가할수록 조직의 항복/파단응력(Yield/fracture stress)과 신장률(Stretch)이 증가한 반면, 십이지장과 간 조직의 경우, 생체역학적 특성 변화가 미미하였다.

본 연구는 허혈성 손상으로 인해 나타나는 조직의 기능 저하 현상을 생체역학적 및 생화학적으로 동시에 분석한 최초의 연구라는 데 큰 의의가 있으며, 향후 REBOA 삽입 후 조직의 허혈성 손상을 최소화할 수 있는 최적 지속 시간을 결정하는 데 중요한 기초 자료로 활용될 수 있다. 해당 논문은 2021년 7월 [Materials & Design (Impact Factor 2020: 7.991)]에 게재됐다.