

Departemen Anatomi

SEBERAPA MOMOK ANATOMI?

- PELUANG
- PENGEMBANGAN

TEACHING INDUSTRY **KOMERSIALISASI PRODUK**

- MANEKIN
- APLIKASI
- 3D PRINTING

TEKNOLOGI

- DATA
- IMAGING
- AR / VR
- 3D

ANATOMI

PENELITIAN DAN PUBLIKASI

- ANAT FUNGSIONAL
- GENETIK TRANSKRIPTOMIK
- PROTEOMIK

MERDEKA BELAJAR

- PLATFORM
- PEMBELAJARAN
- UNIK KREATIF FUN

Produk Pembelajaran Anatomi berbasis IT

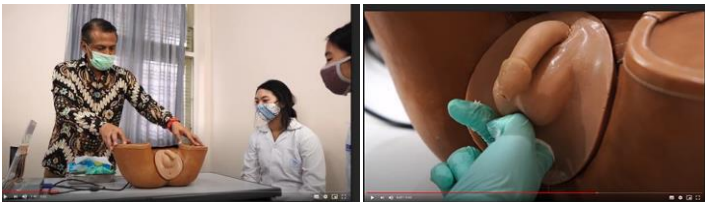
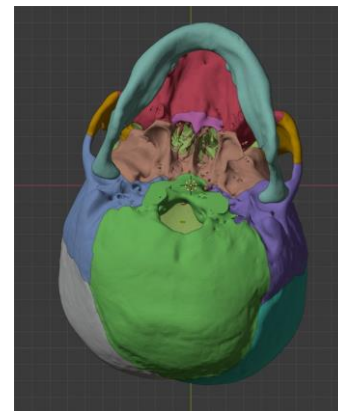
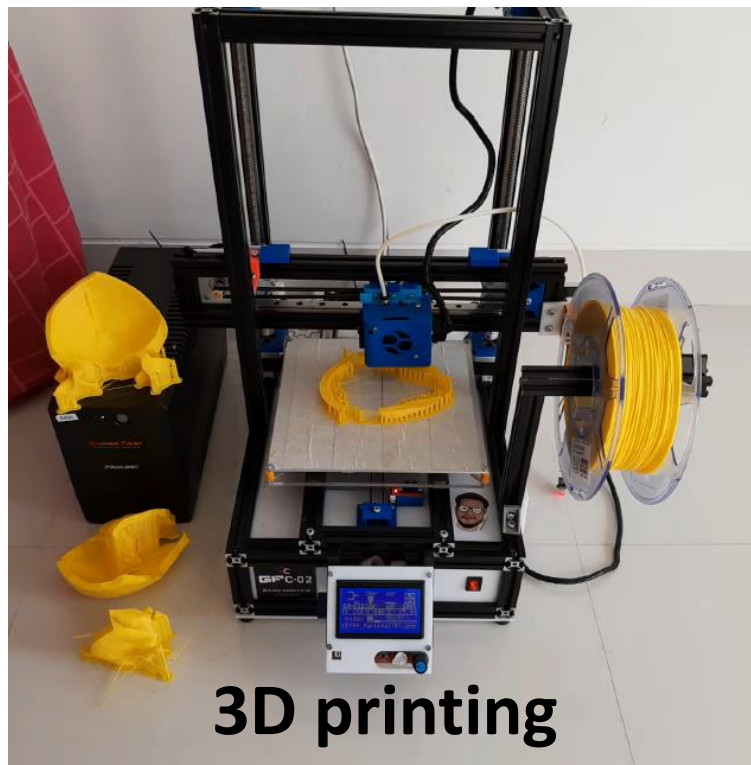
- Produk anatomi:
 - Manekin
 - Data imaging: whole body anatomy 3D data imaging
 - Whole body manekin berbasis 3D printing
 - Augmented reality dan Virtual reality
 - Virtual museum anatomi
 - Online course Anatomi
 - Pembuatan platform pembelajaran
 - Livestream
 - Pengembangan Studio Laboratorium untuk Anatomi (praktikum) dan pelatihan online

VR DAN AR, DHURUNG SEMPURNA



NEXT: INTEGRASI KE PRODUK

Power of creation



NOMOR PERMOHONAN
S00201900727

TANGGAL PERMOHONAN
29 Jan 2019

MANEKEN PEMERIKSAAN PROSTAT DENGAN DILENGKAPI SENSOR SENTUH PADA TITIK-TITIK ANATOMIS

STATUS
(PA) Pelayanan Teknis

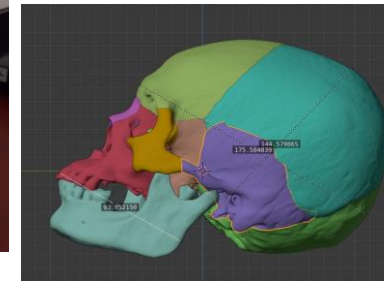
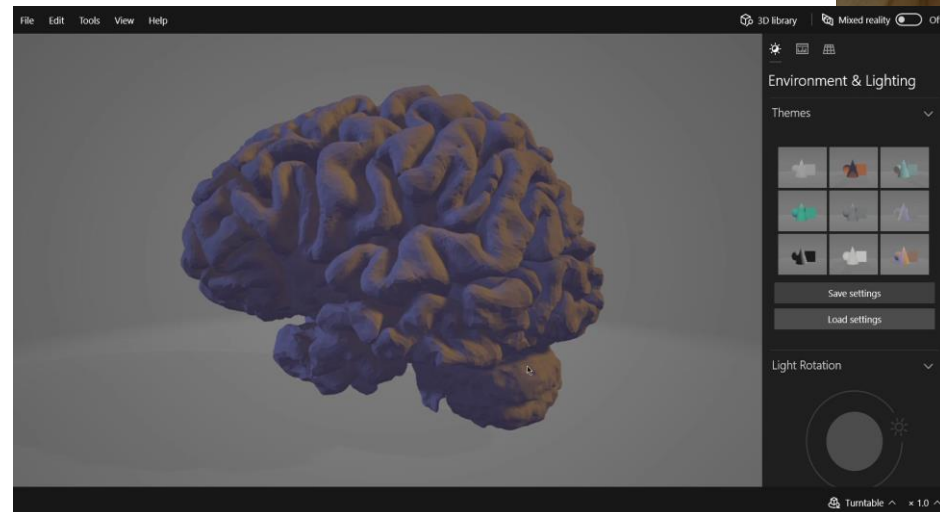
NOMOR PENGUMUMAN
2019/S/00747

TANGGAL PENGUMUMAN
10 May 2019

NOMOR PATEN

TANGGAL PEMBERIAN

GAMBAR



Plan...

- Database anatomi imaging tubuh manusia
 - Kerjasama dgn Dep. Radiologi
 - Kerjasama dgn Dep. Teknik
- Integrasi dengan produk lain
 - Buku ajar
 - Manekin anatomi (3D-printing yg dilengkapi AR)
 - *Merchandise* kedokteran
- Integrasi dgn platform pembelajaran
 - online course / livestream
- Integrasi dengan prosedur klinis
 - Virtual reality

Cadaveric Laboratory for Clinical Anatomy

- Kurikulum lab cadaver
- Kerjasama dgn Dep. Klinis (Bedah, Obsgyn, THT)
- Alur cadaver dan silent mentor
- Pembelajaran residen dan mahasiswa minat anatomi

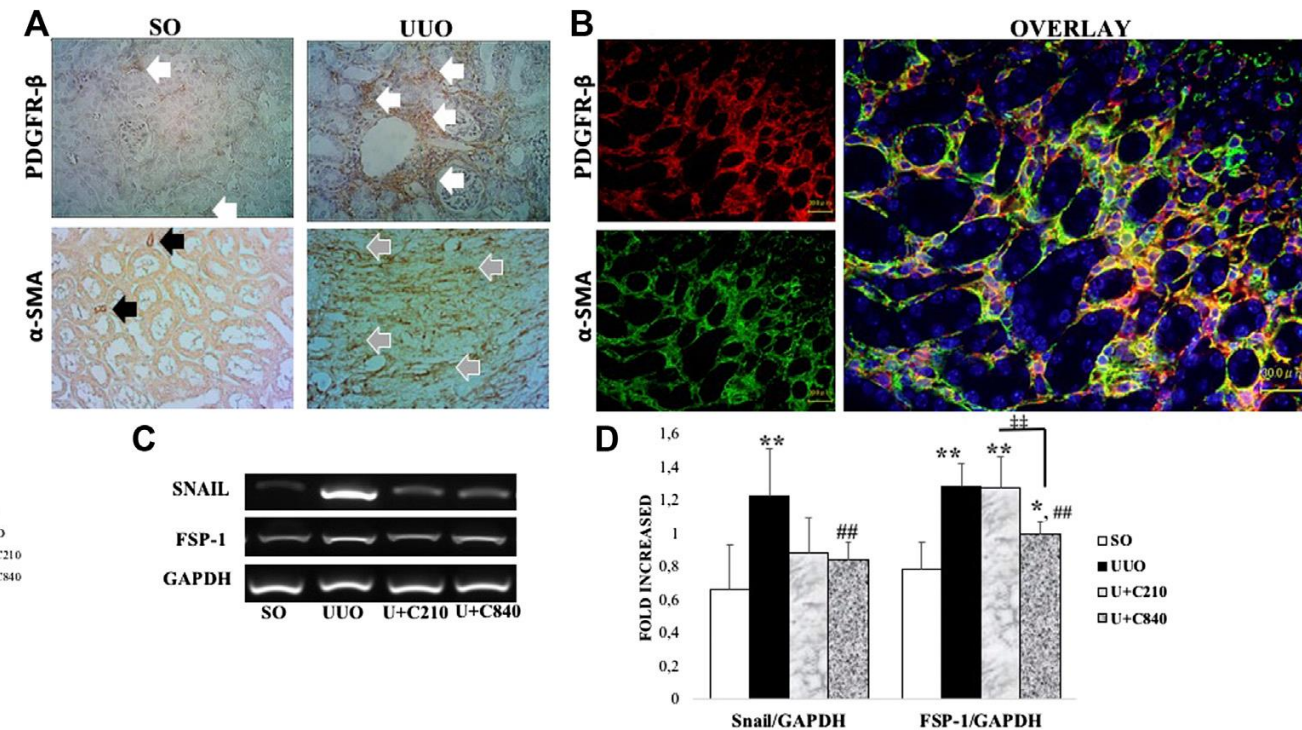
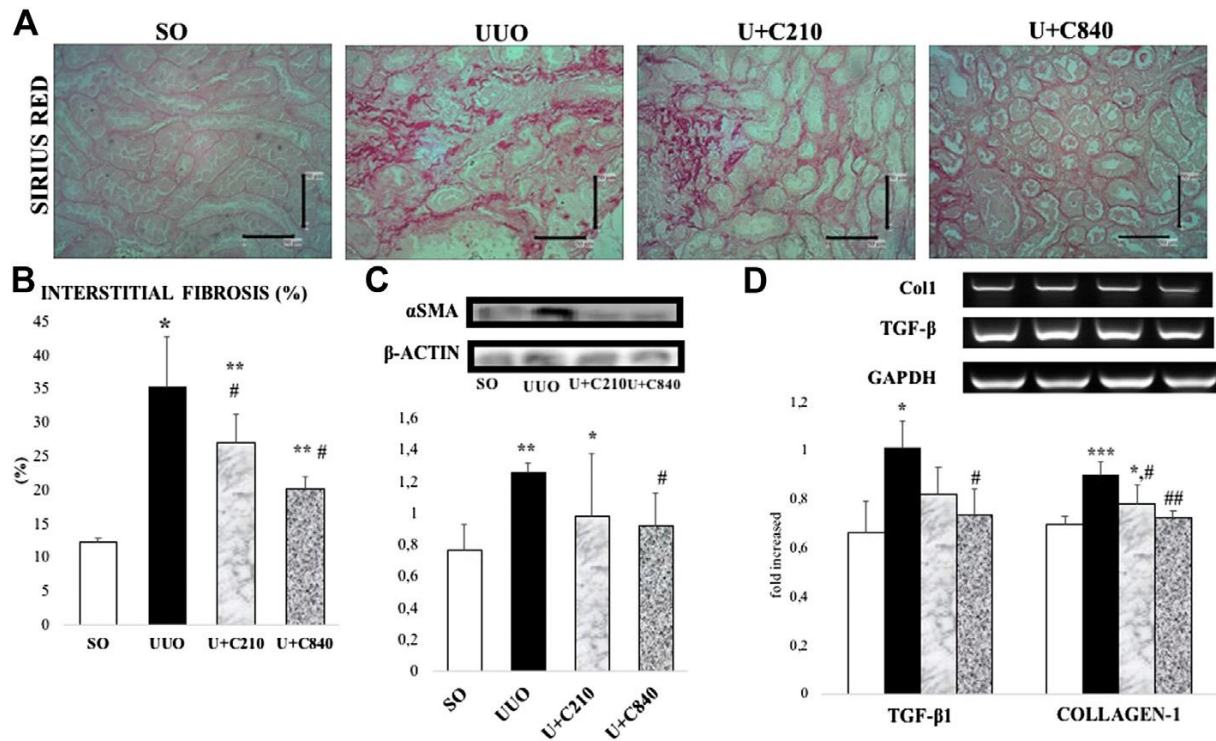
Divisi dan penelitian

- Divisi: Makroanaomi, Neuroanatomi, Rembryologi&perkembangan
- Penelitian:
- Neuroanatomi dan neuroscience: dr Dwi Cahyani, dr Junaedy Yunus
- Makroanatomi, Muskuloskeleteal, ergonomic dan sport medicine: dr Santosa, dr Nur Arfian
- Makroanatomi, Cardiovascular-renal: dr M.Mansyur Romi, dr Nur Arfian
- Pulmo-Hepar: dr Dwi Cahyani, dr Ratih Yuniarta, Wiwit Ananda MSc,
- Embryologi-perkembangan: dr Mansyur Romi, dr Junaedy yunus, dr CH Tri Nuryana, Wiwit Ananda
- Metabolic-DM&Asam urat: dr Mansyur Romi, dr Dwi Cahyani, dr Nur Arfian, Wiwit Ananda MSc
- Pendidikan kedokteran-Digitalisasi : dr Santosa, dr Nur Arfian, dr Junaedy Yunus,

Penelitian Dep. Anatomi

- Penelitian eksperimental
 - Diseased related Animal Model (Model gagal ginjal, fibrosis, global brain ischemia injury, memory dysfunction-induced electrical stress)
 - Metabolic diseases (DM, obesitas, hyperuricemia, hiperprotein diet)
 - Eksplorasi efek obat/substansi aktif: Vitamin D, Clorogenic acid, herbal (Centella asiatica, Yakon)
 - Eksplorasi signaling pathway, transkriptomik-proteomic dan seluler-molekuler

Efek CeA thd fibrosis ginjal



Model hewan coba

- Clamping (menjepit): renal pedicles clamping (gagal ginjal akut), carotid arteries clamping (global ischemic brain injury), hepatic?
- Ligating (mengikat): ureter ligation (fibrosis ginjal), carotid (cedera awal atherosclerosis), bile duct (liver fibrosis)
- Ectomy: uni-nefrectomi/subtotal nefrectomi (hipertensi / gagal ginjal kronis)
- Model: arfian channel
(<https://www.youtube.com/channel/UC6eWGaGvqIttjH0M2ShFVvw>)

Calcitriol Ameliorates Kidney Injury Through Reducing Podocytopathy, Tubular Injury, Inflammation and Fibrosis in 5/6

Iranian Journal of Basic Medical Sciences

ijbms.mums.ac.ir



Centella asiatica (Gotu kola) ethanol extract up-regulates hippocampal brain-derived neurotrophic factor (BDNF), tyrosine kinase B (TrkB) and extracellular signal-regulated protein kinase 1/2 (ERK1/2) signaling in chronic electrical stress model in rats

Dwi Cahyani Ratna Sari¹, Nur Arfian^{1*}, Untung Tranggono², Wiwit Ananda Wahyu Setyaningsih¹, Muhammad Mansyur Romi¹, Noriaki Emoto^{3,4}

death after transient global ischemia



Contents lists available at ScienceDirect

Life Sciences

journal homepage: www.elsevier.com/locate/lifescie



Endothelin converting enzyme-1 (ECE-1) deletion in association with Endothelin-1 downregulation ameliorates kidney fibrosis in mice

Nur Arfian^{a,*}, Yoko Suzuki^b, Anggoro Budi Hartopo^c, Nungki Anggorowati^d, Dwi Aris Agung Nuerrahaningsih^e, Noriaki Emoto^{b,f}

frontiers in Pharmacology

ORIGINAL RESEARCH
published: 17 March 2021
doi: 10.3389/fphar.2021.621894

Centella asiatica Extract Attenuates Kidney Fibrosis Through Reducing Mesenchymal Transition and Inflammation in Ureteral Ligation Model in Mice

Chlorogenic acid attenuates kidney fibrosis via antifibrotic action of BMP-7 and HGF

Romi et al. BMC Nephrology
DOI 10.1186/s12882-017-0736-x

BMC Nephrology

RESEARCH ARTICLE

Open Access



Uric acid causes kidney injury through inducing fibroblast expansion, Endothelin-1 expression, and inflammation

Muhammad Mansyur Romi¹, Nur Arfian^{1*}, Untung Tranggono², Wiwit Ananda Wahyu Setyaningsih¹

ORIGINAL ARTICLE

Hindawi
BioMed Research International
Volume 2019, Article ID 5423703, 10 pages
<https://doi.org/10.1155/2019/5423703>



Hindawi

Research Article

Chlorogenic Acid Attenuates Kidney Ischemic/Reperfusion Injury via Reducing Inflammation, Tubular Injury and Myofibroblast Formation

Physiological Reports

Open Access

Physiological Reports ISSN 2051-817X

ORIGINAL RESEARCH

Nur Arfian¹, Danny A. Nungki Anggorowati³

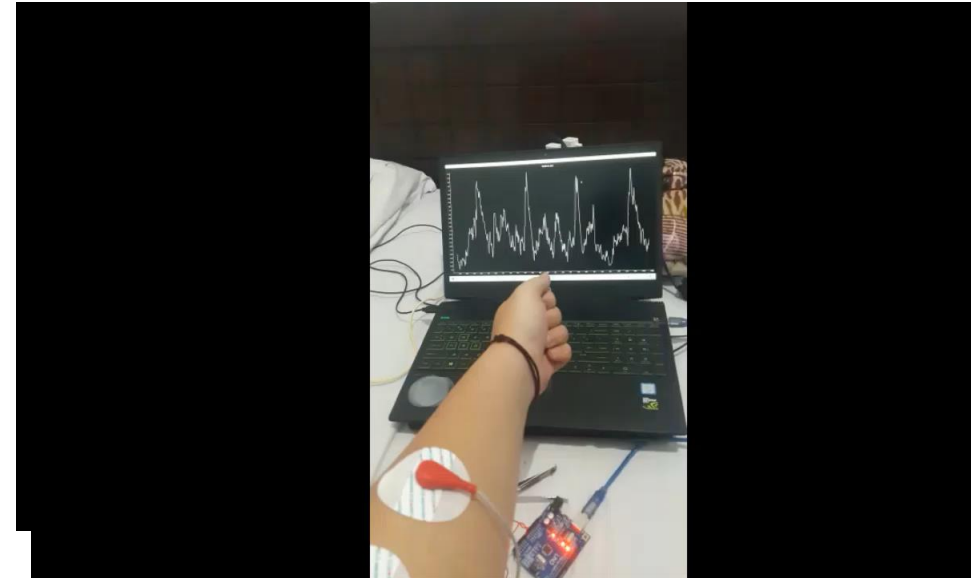
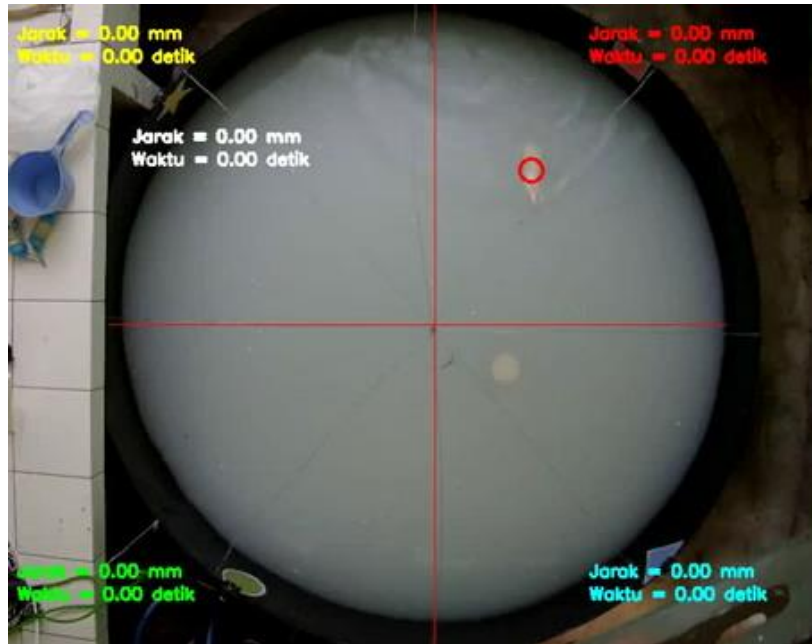
Effects of low and moderate treadmill exercise on liver of D-galactose-exposed aging rat model

Widya Wasityastuti¹, Nurfatma A. Habib², Dwi C. R. Sari³ & Nur Arfian³

- 1 Department of Physiology, Faculty of Medicine, Public Health and Nursing, Universitas Gadjah Mada, Yogyakarta, Indonesia
- 2 Master in Biomedical Sciences, Faculty of Medicine, Public Health and Nursing, Universitas Gadjah Mada, Yogyakarta, Indonesia
- 3 Department of Anatomy, Faculty of Medicine, Public Health and Nursing, Universitas Gadjah Mada, Yogyakarta, Indonesia

Alat fungsional untuk eksperimen

Aplikasi untuk pemeriksaan memori
Morris Water maze



FORMULIR PERMOHONAN PENDAFTARAN PATEN INDONESIA
APPLICATION FORM OF PATENT REGISTRATION OF INDONESIA

| Data Permohonan (Application) | | | |
|---|-------------------------------|--|---------------|
| Nomor Permohonan Number of Application | : P00202007813 | Tanggal Permohonan Date of Submission | : 21-Oct-2020 |
| Jenis Permohonan Type of Application | : PATEN | Jumlah Klaim Total Claim | : 1 |
| | | Jumlah halaman Total page | : 4 |
| Judul Title | : LENGAN RADIAL MAZE OTOMATIS | | |

- Model hewan coba
- Pemeriksaan transkriptomik-proteomic dan seluler molekuler model hewan coba atau klinis
- Cadaveric lab