

Model	Title	Authors	Citation	Link
LS720	Distinguishing High-Metastasis-Potential Circulating Tumor Cells through Fluidic Shear Stress in a Bloodstream-Like Microfluidic Circulatory System	M Yang, LI Wenxiu, Z Guo, Z Zhou, Z Zho	Researchgate Preprint, 2024	Link
LS620	Multiplex Single-Cell Bioprinting for Engineering of Heterogeneous Tissue Constructs with Subcellular Spatial Resolution	HR Helms, KA Oyama, JP Ware	BioRxiv, 2024	Link
LS560	Alzheimer's disease-associated P460L variant of EphA1 dysregulates receptor activity and blood-brain barrier function	HA Owens, LE Thorburn, E Walsby	Alzheimers and Dementia, 2024	Link
LS720	A Novel Primary Cilium-Mediated Mechanism Through which Osteocytes Regulate Metastatic Behavior of Both Breast and Prostate Cancer Cells	SW Verbruggen, J Nolan, MP Duffy	Advanced Science, 2024	Link
LS500	Unveiling the Topographic Cue Rendered by Micropatterns for Steering Cell Differentiation by Using Extrinsic Photobiomodulation	GY Tsai, T Klom-In, MJ Wang, S Chen	Journal of Photochemistry, 2024	Link
LS720	Co-assembling living material as an in vitro lung epithelial infection model	Y Wu, M Romero, SN Robertson	Cell, 2024	Link
LS720	Mitochondrially targeted deferasirox kills cancer cells via simultaneous iron deprivation and ferroptosis induction.	SB Jadhav, C Sandoval Acuña	BioRxiv, 2024	Link
LS500	Reinforcement of cell-mediated immunity driven by tumor-associated Epstein-Barr virus (EBV)-specific T cells during targeted B-cell therapy with rituximab	S Tischer-Zimmermann, A Bonifacius	Frontiers in Immunology, 2023	Link
LS720	Riociguat inhibits ultra large VWF string for-formation on pulmonary artery endothelial cells from chronic thromboembolic pulmonary hypertension patients	TJ Sanada, XD Manz	Pulmonary Circulation, 2023	Link
LS720	The RHOA Mutation G17V Does Not Lead to Increased Migration of Human Malignant T Cells but Is Associated with Matrix Remodelling	K Merk-Ahmad, J Bein, S Scharf, H Schäfer	Cancers, 2023	Link
LS720	The Ultraviolet Irradiation of Keratinocytes Induces Ectopic Expression of LINE-1 Retrotransposon Machinery and Leads to Cellular Senescence	F Touma, M Lambert, A Martínez Villarreal	Biomedicines, 2023	Link
LS620	Restoring mitophagy in prostate cancer cells: the role of miR-141 rescue in counteracting MAPK1/ERK2-dependent autophagy suppression	R Tsvetankova, I Tsvetkova	Taylor and Francis, 2023	Link
LS720	TNF- protects from exacerbated myocarditis and cardiac death by suppressing expansion of activated heart-reactive CD4 T cells	F Rolski, K Tkacz, K Węglarczyk	Cardiovascular Research, 2023	Link
Lumascope	Construction of double network hydrogels using agarose and gallic acid with antibacterial and anti-inflammatory properties for wound healing	W Gong, R Wang, H Huang, Y Hou	International Journal of Biological Macromolecules, 2023	Link
LS720	The impact of pericytes on the stability of microvascular networks in response to nanoparticles	M Dibble, S Di Cio', P Luo, F Balkwill	Nature, Scientific Reports, 2023	Link
LS720	Phenotyping senescent mesenchymal stromal cells using AI image translation	L Weber, BS Lee, S Imboden, CJ Hsieh, et al	Science, Direct, 2023	Link
LS560	A microfluidic double emulsion platform for spatiotemporal control of pH and particle synthesis	M Rana, R Ahmad, AF Taylor	Lab on a Chip, 2023	Link
LS720	Trustworthy in silico cell labeling via ensemble-based image translation	S Imboden, X Liu, MC Payne, CJ Hsieh, et al	Biophysical Reports, 2023	Link
LS720	Lysyl hydroxylase LH1 promotes confined migration and metastasis of cancer cells by stabilizing Septin2 to enhance actin network	Z Yang, L Zhou, T Si, S Chen	Molecular Cancer, 2023	Link
LS720	Vascular protection afforded by zinc supplementation in human coronary artery smooth muscle cells mediated by NRF2 signaling under hypoxia	F Yang, MJ Smith, A Griffiths, A Morrell	Redox Biology, 2023	Link
LS720	Automated Stimulation and Long-Term Remote Monitoring of Multi-Plex Microfluidic Organoid Chips	DM Sachs, KD Costa	BioRxiv, 2023	Link
LS720	Vascularised Cardiac Spheroids-on-a-Chip for Testing the Toxicity of Therapeutics	SD Cio, M Haddrick, JE Gautrot	BioRxiv, 2023	Link
LS460	Synergistic role of thymoquinone and 5-fluorouracil in U-251MG glioblastoma cell line	E Mutlu Altundağ, AT Jannuzzi, C Özbilenler	Turkish Journal of Biochemistry, 2023	Link
Lumascope	Cortical dopamine D5 receptors regulate neuronal circuit oscillatory activity and memory in rats	AM Albeely, CJ Nolan, DJ Rasmussen	CNS Neuroscience, 2023	Link

LS620	Collaborative cytometric inter-laboratory ring test for probiotics quantification	PL Jordal, MG Diaz, C Morazzoni, S Allesina	Frontiers in Microbiology, 2023	Link
Lumascope	Cancer Spheroid Segmentation Based on Vision Transformer	GV Leite, JM Azevedo-Martins	IEEE Conference, 2023	Link
Lumascope	Ca ²⁺ /pH-triggered gelation of Pickering emulsion in vitro digestion: Visualization and sustained-release performance	H Liu, R Huang, X Zhao, S Yang	Science Direct, 2023	Link
Lumascope	Binding of USP4 to cortactin enhances cell migration in HCT116 human colon cancer cells	SI Yun, C Kwak, SY Lee, S Shin	FASEB Journal, 2023	Link
LS720	MicroRNA-494 augments fibrotic transformation of human retinal pigment epithelial cells and targets p27 with cell-type specificity	T Leng, G Kamboj, X Sun, H Chang	Frontiers in Ophthalmology, 2023	Link
LS720	cGAS-STING signalling regulates microglial chemotaxis in genome instability	EJ Talbot, L Joshi, P Thornton, M Dezfouli	Nucleic Acids, 2023	Link
Lumascope	Nrf2 activation rescues stress-induced depression-like behaviour and inflammatory responses in male but not female rats	R McCallum, RK Theriault, J Manduca	Research Square, 2023	Link
Lumascope	Dinitro Derivative of Naphthalimide as a Fluorescent Probe for Tumor Hypoxia Imaging	R Kumari, D Sunil, AK NV	Taylor and Francis Online, 2023	Link
Lumascope	Changes in membrane lipid order by microplasma irradiation for high molecule drug absorption	SA Rimi, J Kristof, MJ Alam	Begell House Digital Library, 2023	Link
LS720	Functional and analytical recapitulation of osteoclast biology on demineralized bone paper	Y Park, T Sato, J Lee	Nature Communications, 2023	Link
LS820	Changes in Membrane Lipid Order of Cells by Optimized Microplasma Irradiation for High-Molecule Drug Absorption	SA Rimi, J Kristof, MJ Alam, K Oishi,	Begell House Digital Library, 2023	Link
LS720	Identification of new drugs to counteract anti-spike IgG-induced hyperinflammation in severe COVID-19	CE Geyer, HJ Chen, AP Bye	Life Science Alliance, 2023	Link
LS720	Glucose oxidase virus-based nanoreactors for smart breast cancer therapy	P Gama, P Juarez	Authorea, 2023	Link
LS620	An overview of the vaccine platforms to combat COVID-19 with a focus on the subunit vaccines	F Bayani, NS Hashkavaei, S Arjmand	Progress in Biophysics, 2023	Link
Lumascope	Antiplasmodial and Antileishmanial Activities of a New Limonoid and Other Constituents from the Stem Bark of <i>Khaya senegalensis</i>	GA Amang à Ngnoung, YO Nganso Ditchou	Molecules, 2023	Link
Lumascope	Bending <i>Drosophila</i> larva using a microfluidic device enables imaging of its brain and nervous system at single neuronal resolution	R Ghaemi, M Acker, A Stosic	Lab on a Chip, 2023	Link
LS620	Culture Shock: An Investigation into the Tolerance of Pathogenic Biofilms to Antiseptics in Environments Resembling the Chronic Wound Milieu	J Paleczny, M Brożyna, B Dudek, A Woytoń	International Journal of Molecular Sciences	Link
LS720	Oncogenic KRAS promotes pancreatic ductal adenocarcinoma (PDAC) through post-transcriptionally regulated KRAS-induced granules (KGs)	A Bortoletto, Z Yang, M Cardenas, MT Wang	Research Square, 2023	Link
LS720	Genome-Wide Screening Identifies Gene AKR1C1 Critical for Resistance to Pirarubicin in Bladder Cancer	Z Nie, Y Gao, M Chen, Y Peng	Cancers, 2023	Link
LS620	Hypoxia blunts angiogenic signaling and upregulates the antioxidant system in elephant seal endothelial cells	K Allen, JM Torres-Velarde, JM Vazquez	BioRxiv, 2023	Link
LS560	A Perfusable Multi-Hydrogel Vasculature On-Chip Engineered by 2-Photon 3D Printing and Scaffold Molding to Improve Microfabrication Fidelity in Hydrogels	F Cantoni, L Barbe, H Pohlit	Applied Materials, 2023	Link
LS620	Tissue-specific cells generated to predict xenogeneic immune responses demonstrate that SLA-downregulated kidney proximal tubular epithelial cells are low	K Schmalkuche, R Schwinzer, N Wenzel, E Valdivia	Research Square, 2023	Link
LS720	Microwell-based flow culture increases viability and restores drug response in prostate cancer spheroids	MC Payne, SY Ho, T Hashimoto	Biotechnology, 2023	Link
LS620	The role of heparan sulfate in enhancing the chemotherapeutic response in triple-negative breast cancer	JM Manouchehri, L Marcho, MA Cherian	BioRxiv, 2023	Link

LS720	High Throughput Confined Migration Microfluidic Device for Drug Screening	Z Yang, Z Zhou, T Si, Z Zhou	Small, 2023	Link
LS620	Sulfatase 2 Inhibition Sensitizes Triple-Negative Breast Cancer Cells to Chemotherapy Through Augmentation of Extracellular ATP	JM Manouchehri, L Marcho, MA Cherian	BioRxiv, 2023	Link
LS620	Downregulation of swine leukocyte antigen expression decreases the strength of xenogeneic immune responses towards renal proximal tubular epithelial cells	K Schmalkuche, R Schwitzer, N Wenzel	International Journal of Molecular Sciences, 2022	Link
LS720	The cGAS-STING pathway regulates microglial chemotaxis in genome instability	EJ Talbot, L Joshi, P Thornton, M Dezfouli	BioRxiv, 2023	Link
LS720	Cell-cell adhesion impacts epithelia response to substrate stiffness: Morphology and gene expression	D Choi, Z Gonzalez, SY Ho, A Bermudez	Biophysical Journal, 2022	Link
LS720	Anticancer regimens containing third generation taxanes SB-T-121605 and SB-T-121606 are highly effective in resistant ovarian carcinoma model	K Seborova, K Koucka, A Spalenkova	Frontiers in Pharmacology, 2022	Link
Lumascope	Critical shear stresses of Pseudomonas aeruginosa biofilms from dental unit waterlines studied using microfluidics and additional magnesium ions	J Greener, WY Harvey	Physics of Fluids, 2022	Link
LS620	Trophoblast Migration with Different Oxygen Levels in a Gel-Patterned Microfluidic System	G Ko, TJ Jeon, SM Kim	Micromachines, 2022	Link
LS720	Tools used to assay genomic instability in cancers and cancer meiomitosis	J Gantchev, B Ramchatesingh	Journal of Cell Communication and Signaling, 2022	Link
Lumascope	Transferrin-mediated increase of labile iron Pool following simulated ischemia causes lipid peroxidation during the early phase of reperfusion	D Lee, E Son, YH Kim	Free Radicals, 2022	Link
LS720	Inhibition of microRNA-200c preserves astrocyte sirtuin-1 and mitofusin-2, and protects against hippocampal neurodegeneration following global cerebral	B Griffiths, L Xu, X Sun, M Greer, I Murray, et al	Frontiers in Molecular Neuroscience, 2022	Link
LS620	'Cookies on a tray': Superselective hierarchical microstructured poly (l-lactide) surface as a decoy for cells	B Kryszak, K Szustakiewicz, P Dzienny	Biomaterials Advances, 2022	Link
LS620	The Assessment of Activity of Antiseptic Agents against Biofilm of Staphylococcus aureus Measured with the Use of Processed Microscopic Images	G Krasowski, P Migdał	International Journal of Molecular Sciences 2022	Link
LS720	MAIA, Fc receptor-like 3, supersedes JUNO as IZUMO1 receptor during human fertilization	J Vondrakova, M Frolikova, L Ded	Science, 2022	Link
Lumascope	Violacein negatively modulates the colorectal cancer survival and epithelial-mesenchymal transition	PF de Souza Oliveira, AVS Faria	Journal of Cellular Biochemistry	Link
LS720	Epigenetic modification of the von Willebrand factor promoter drives platelet aggregation on the pulmonary endothelium in chronic thromboembolic pulmonary hypertension	XD Manz, R Szulcek, X Pan	American Journal of Respiratory and Critical Care Medicine	Link
LS720	Impact of Pericytes on the Stabilisation of Microvascular Networks in Microfluidic Systems in Response to Nanotoxicity	M Dibble, S Di Cio, P Luo, F Balkwill	BioRxiv, 2022	Link
LS620	Application of Bio-Active Elastin-like Polypeptide on Regulation of Human Mesenchymal Stem Cell Behavior	V Sarangthem, H Sharma, M Mendiratta	Biomedicines, 2022	Link
LS620	An Automated Platform For High Throughput Fluorescence Microscopy	B Rasnow, T Adams, C Hauck, C Gregg, T Ruiz	ScholarWorks, 2022	Link
Lumascope	Dhh signaling pathway regulates reconstruction of seminiferous tubule-like structure	M Min, T Song, M Sun, T Wang, J Tan, J Zhang	Reproductive Biology, 2022	Link
LS720	T lymphocyte-derived exosomes transport MEK1/2 and ERK1/2 and induce NOX4-dependent oxidative stress in cardiac microvascular endothelial cells	F Rolski, M Czepiel, K Tkacz	Oxidative Medicine and Cellular Longevity, 2022	Link
LS620	In vitro and in vivo characterization of a novel tricalcium silicate-based ink for bone regeneration using laser-assisted bioprinting	N Touya, M Devun, C Handschin	Biofabrication, 2022	Link
LS620	GSK-3β disrupts neuronal oscillatory function to inhibit learning and memory in male rats	AM Albeely, OOF Williams, ML Perreault	Cellular and Molecular Bioengineering, 2022	Link
Lumascope	Platelet-dependent signaling and Low Molecular Weight Protein Tyrosine Phosphatase expression promote aggressive phenotypic changes in	AVS Faria, B Yu, M Mommersteeg	Biochimica and Biophysics 2022	Link

LS620	The cross-linked bacterial cellulose impregnated with octenidine dihydrochloride-based antiseptic as an antibacterial dressing material for highly-exuding infected wounds	D Ciecholewska-Juško, A Junka, K Fijałkowski	Microbiological Research, 2022	Link
LS720	Scabertopin Derived from <i>Elephantopus scaber</i> L. Mediates Necroptosis by Inducing Reactive Oxygen Species Production in Bladder Cancer In Vitro	Y Gao, Z Nie, H Cao, D Huang, M Chen, Y Xiang	Cancers, 2022	Link
LS720	MicroRNA-511-3p mediated modulation of the peroxisome proliferator-activated receptor gamma (PPAR γ) controls LPS-induced inflammatory responses in human	D Awuah, A Ruisinger, M Alobaid	Immuno, 2022	Link
LS720	Aluminum hydroxide adjuvant diverts the uptake and trafficking of genetically detoxified pertussis toxin to lysosomes in macrophages	JR Jaldin-Fincafi, et al	Molecular Microbiology, 2022	Link
LS620	Dual Stimuli Responsive Nanoparticle Conjugates for Hypoxia Targeted Drug Delivery	R Kumari, V Rajan, D Sunil, RS Ningthoujam	Social Science Research Network, 2022	Link
LS720	Covariation of Pluripotency Markers and Biomechanical Properties in Mouse Embryonic Stem Cells	O Brookes, SD Thorpe, O Rigby Evans	Frontiers in Cell and Developmental Biology, 2022	Link
LS720	TRIM7 restricts Coxsackievirus and norovirus infection by detecting the C-terminal glutamine generated by 3C protease processing	J Luptak, DL Mallery, AS Jahun, A Albecka	Viruses, 2022	Link
Lumascope	Engineering of Surface Energy of Cell-Culture Platform to Enhance the Growth and Differentiation of Dendritic Cells via Vapor-Phase Synthesized Functional Polymer Films	M Lee, D Chun, S Park, G Choi, Y Kim, SJ Kang	Small, 2022	Link
LS560	Neural Cell Video Synthesis via Optical-Flow Diffusion	M Serna-Aguilera, K Luu, N Harris	arXiv, 2022	Link
LS560	A transition phase in late mouse oogenesis impacts DNA methylation of the early embryo	K Eleftheriou, A Peter, I Fedorenko	Nature Communications Biology, 2022	Link
LS520	Preliminary Structure–Activity Relationship Study of the MMV Pathogen Box Compound MMV675968 (2, 4-Diaminoquinazoline) Unveils Novel Inhibitors of <i>Trypanosoma brucei</i>	D Dize, RB Tata, R Keumoe	Molecules, 2022	Link
LS620	Exploring In Vitro Biological Cellular Responses of Pegylated β -Cyclodextrins	J Rincón-López, M Martínez-Aguilera, P Guadarrama	Molecules, 2022	Link
LS620	LC3A-mediated autophagy regulates lung cancer cell plasticity	CC Miao, W Hwang, LY Chu, LH Yang	Taylor and Francis Online, 2022	Link
Lumascope	Lapatinib suppresses HER2-overexpressed cholangiocarcinoma and overcomes ABCB1-mediated gemcitabine chemoresistance	Z Bai, Z Guo, J Liu, YA Chen, Q Lu, P Zhang	Frontiers in Oncology, 2022	Link
LS620	The sodium proton exchanger NHE9 regulates phagosome maturation and bactericidal activity in macrophages	HS Shamroukh, N Lone, M Akhtar, et al	Journal of Biological Chemistry, 2022	Link
LS620	Colorectal cancer cell-derived small extracellular vesicles educate human fibroblasts to stimulate migratory capacity	SP Clerici, M Peppelenbosch, G Fuhler, et al	Frontiers in Cell and Developmental Biology, 2021	Link
LS620	The processing of staphylococcal biofilm images from Fluorescence and Confocal Microscopy to assess in vitro efficacy of antiseptic molecules	G Krasowski, P Migdał, M Woroszyło, K Fijałkowski	BioRxiv, 2021	Link
LS600	Hypoxia onset in mesenchymal stem cell spheroids: monitoring with hypoxia reporter cells	C Schmitz, E Potekhina, VV Belousov	Frontiers in Bioengineering and Biotechnology, 2021	Link
LS620	A pre-conditioning protocol of peripheral blood derived endothelial colony forming cells for endothelialization of tissue engineered constructs	X Kraus, M Pflaum, S Thoms, R Jonczyk et al	Microvascular Research, 2021	Link
LS720	MicroRNA-338 inhibition protects against focal cerebral ischemia and preserves mitochondrial function in vitro in astrocytes and neurons via COX411	L Li, L Voloboueva, BB Griffiths, L Xu, et al	Mitochondrion	Link
LS620	COVAX-19® Vaccine: Completely blocks virus transmission to non-immune individuals	VP Chavda, LK Vora, et al	Clinical Complementary Medicine and	Link
LS620	Biological evaluation of selective laser melted magnesium alloy powder.	AP Pawlak, PE Szymczyk-Ziółkowska	ACTA Bioengineering and Biomechanics, 2021	Link
LS620	Bacterial Nanocellulose Fortified with Antimicrobial and Anti-Inflammatory Natural Products from <i>Chelidonium majus</i> Plant Cell Cultures	S Zielińska, A Matkowski, K Dydak, ME Czerwińska	Materials, 2021	Link
LS720	Quartz crystal microbalance with dissipation monitoring of Dynamic viscoelastic changes of tobacco BY-2 cells under different osmotic conditions	Z Chen, T Zhou, J Hu, et al	Biosensors, 2021	Link

LS620	Targeting S1PR1 May Result in Enhanced Migration of Cancer Cells in Bladder Carcinoma	CL Chen, E Meng, ST Wu, et al	Cancers, 2021	Link
LS620	A nitronaphthalimide probe for fluorescence imaging of hypoxia in cancer cells	R Kumari, D Sunil, RS Ningthoujam	Journal of Fluorescence, 2021	Link
LS620	Mechanical stimulation modulates osteocyte regulation of cancer cell phenotype	SW Verbruggen, CL Thompson, MP Duffy	Cancers, 2021	Link
LS720	The antidepressant-like and analgesic effects of kratom alkaloids are accompanied by changes in low frequency oscillations but not Δ FosB accumulation	S Buckhalter, E Soubeyrand, SAE Ferrone	Frontiers in Pharmacology	Link
LS720	Development of a carboxyl-terminated indium tin oxide electrode for improving cell adhesion and facilitating low noise, real-time impedance measurements	AMO Ilyas, MK Alam, JD Musah, et al	American Journal of Physiology Cell Physiology, 2021	Link
LS720	Hyaluronan (HA) immobilized on surfaces via self-assembled monolayers of ha-binding peptide modulates endothelial cell spreading and migration through focal adhesion	X Pang, W Li, L Chang, JE Gautrot	Applied Materials, 2021	Link
LS720	CHO cell dysfunction due to radiation-induced bystander signals observed by real-time electrical impedance measurement	AM Ilyas, MK Alam, JD Musah, M Yang	Biosensors and Bioelectronics, 2021	Link
LS720	A functional assay for serum detection of antibodies against SARS-CoV-2 nucleoprotein	A Albecka, D Clift, M Vaysburd, T Rhinesmith	The EMBO Journal, 2021	Link
LS600	The Antimicrobial and Antibiofilm In Vitro Activity of Liquid and Vapour Phases of Selected Essential Oils against Staphylococcus aureus	M Brożyna, J Paleczny, W Kozłowska, et al	Pathogens, 2021	Link
LS620	Autonomous spheroid formation by culture plate compartmentation	M Fürsatz, P Gerges, S Wolbank	Biofabrication, 2021	Link
LS720	High titers and low fucosylation of early human anti-SARS-CoV-2 IgG promote inflammation by alveolar macrophages	W Hoepel, HJ Chen, CE Geyer	Science, Translational Medicine, 2021	Link
LS620	Similarities and differences in the localization, trafficking, and function of P-glycoprotein in MDR1-EGFP-transduced rat versus human brain capillary	B Gericke, S Borsdorf	Fluids, Barriers, CNS 2021	Link
LS720	Investigating heterogeneities of live mesenchymal stromal cells using AI-based label-free imaging	S Imboden, X Liu, BS Lee, MC Payne	Nature, Scientific Reports, 2021	Link
LS520	Bioguided isolation, structure elucidation and evaluation of new antimicrobial flavonoid from Carica papaya leaves	MA Nicolas, NM Alvine, BBN Gaëtan	Journal of Pharmacognosy and Phytochemistry, 2021	Link
LS620	Targeting S1PR1 May Result in Enhanced Migration of Cancer Cells in Bladder Carcinoma. Cancers 2021, 13, 4474	CL Chen, E Meng, ST Wu	Cancers, 2021	Link
LS620	Study of Pseudomonas aeruginosa PPF-1 biofilm formation using microfluidics: effect of magnesium on biofilm detachment in engineered conduits	WY Harvey, C Gagné-Thivierge	ChemRxiv, 2021	Link
LS620	WHAMM is essential for spindle formation and spindle actin polymerization in maturing mouse oocytes	YJ Jo, J Kwon, ZL Jin, et al	Cell Cycle, 2021	Link
LS620	Size-scaling promotes senescence-like changes in proteome and organelle content	L Cheng, J Chen, Y Kong et al	BioRxiv, 2021	Link
LS720	Surface hydrophobicity modulates the key characteristics of cancer spheroids through the interaction with the adsorbed proteins	M Lee, Y Kim, SJ Yu, SY Lee	Advanced Functional Materials, 2021	Link
LS620	Potato juice, a starch industry waste, as a cost-effective medium for the biosynthesis of bacterial cellulose	D Ciecholewska-Juśko, M Broda	International Journal of Molecular Science, 2021	Link
LS520	STIM1 controls the focal adhesion dynamics and cell migration by regulating SOCE in osteosarcoma	YS Lin, YH Lin, MH Nguyen Thi	International Journal of Molecular Science, 2021	Link
LS720	Trabecular bone organoid model for studying the regulation of localized bone remodeling	Y Park, E Cheong, JG Kwak	Science Advances, 2021	Link
LS620	Passively Driven Microfluidic Device with Simple Operation for Quantitative Droplet LAMP Assay for Point-of-Care Analysis	PH Lin, BR Li	Research Square, 2021	Link
LS720	An ex vivo brain slice model to study and target breast cancer brain metastatic tumor growth	L Ciraku, RA Moeller, EM Esquea, et al	Journal of Visualized Experiments, 2021	Link

LS500	Milliscale substrate curvature promotes myoblast self-organization and differentiation	CJ Connon, RM Gouveia	Advanced Biology, 2021	Link
LS720	Investigation on the Direct and Bystander Effects in HeLa Cells Exposed to Very Low α -Radiation Using Electrical Impedance Measurement	AMO Ilyas, MK Alam, JD Musah, M Yang	ACS Omega, 2021	Link
LS620	Functional Analysis of Phenazine Biosynthesis Genes in Burkholderia spp.	S Hendry, S Steinke, K Wittstein, M Stadler	Applied and Environmental Microbiology, 2021	Link
LS720	Use of cell doublets for studying cytokinesis regulation reveals a new form of cytokinesis regression	N Levi-Dadon, E Panet, SHO Shalom	Research Square, 2021	Link
LS620	Rotating Magnetic Field Increases β -Lactam Antibiotic Susceptibility of Methicillin-Resistant Staphylococcus aureus Strains	M Woroszyło, D Ciecholewska-Juśko, et al	International Journal Medical Sciences, 2021	Link
LS720	Luteolin Induces Selective Cell Death of Human Pluripotent Stem Cells	YH Go, J Kim, HC Jeong, SM Kim, YJ Kim, SJ Park, et al	Biomedicines, 2020	Link
LS520	Galectin-3 stimulates tyro3 receptor tyrosine kinase and erk signalling, cell survival and migration in human cancer cells	N Al Kafri, S Hafizi	Biomaterials, 2020	Link
Lumascope	A Microfluidic Perfusion Platform for In Vitro Analysis of Drug Pharmacokinetic-Pharmacodynamic (PK-PD) Relationships	YA Guerrero, D Desai, C Sullivan, E Kindt et al	The AAPS Journal, 2020	Link
Lumascope	New injectable self-assembled hydrogels that promote angiogenesis through a bioactive degradation product	KR Sindhu, N Bansode, M Rémy, et al	Acta Biomaterialia	Link
Lumascope	An antifouling peptide-based biosensor for determination of Streptococcus pneumonia markers in human serum	PH Chang, CC Weng, BR Li, YK Li, et al	Biosensors and Bioelectronics, 2020	Link
LS620	Gene expression profiling identifies the role of Zac1 in cervical cancer metastasis	HC Su, SC Wu, LC Yen, LK Chiao, et al	Nature Scientific Reports, 2020	Link
LS720	Application of co-culture technology of epithelial type cells and mesenchymal type cells using nanopatterned structures	TH Jung, EB Chung, HW Kim, SW Choi, SJ Park, et al	PLOS One, 2020	Link
LS560	Increased hypoxic proliferative response and gene expression in erythroid progenitor cells of Andean highlanders with chronic mountain sickness	D Bermudez, et al	American Physiological Journal, 2020	Link
LS460	Laminin-modified gellan gum hydrogels loaded with the nerve growth factor to enhance the proliferation and differentiation of neuronal stem cells	W Li, A Huang, Y Zhong, L Huang, et al	RSC Advances, 2020	Link
LS560	Microvascular mimetics for the study of leukocyte–endothelial interactions	TS Khire, AT Salminen, H Swamy, KS Lucas	Cellular and Molecular Bioengineering, 2020	Link
LS720	Scalable manufacture of a disposable, storage-stable eight-channel microfluidic device for rapid testing of platelet, coagulation, and drug function under whole blood	JM Rossi, SL Diamond	Biomicrofluidics, 2020	Link
Lumascope	Neuroprotective effect of Annona muricata-derived polysaccharides in neuronal HT22 cell damage induced by hydrogen peroxide	WS Kim, YE Kim, EJ Cho, et al	Biosci Biotechnol Biochem. 2020	Link
Lumascope	Acute mitragynine administration suppresses cortical oscillatory power and systems theta coherence in rats	RK Thériault, JD Manduca, et al	British Society for Psychopharmaceuticals, 2020	Link
LS720	Construction of the nickel oxide nanocoral structure on microscope slides for total self-assembly-oriented probe immobilization and signal enhancement	YL Hsieh, CW Chen, WH Lin, et al	ACS Applied Biomaterials, 2020	Link
LS720	Anti-SARS-CoV-2 IgG from severely ill COVID-19 patients promotes macrophage hyper-inflammatory responses	W Hoepel, HJ Chen, S Allahverdiyeva, X Manz, et al	BioRxiv	Link
Lumascope	The complex multicellular morphology of the food spoilage bacteria Brochothrix thermosphacta strains isolated from ground chicken	CY Chen, LHT Nguyen, et al	Canadian Journal of Microbiology, 2020	Link
LS720	Ezrin phosphorylation at T567 modulates cell migration, mechanical properties, and cytoskeletal organization	X Zhang, LR Flores, MC Keeling, K Sliogeryte, et al	International Journal of Molecular Sciences, 2020	Link
LS720	Brome mosaic virus-like particles as siRNA nanocarriers for biomedical purposes	A Nuñez-Rivera	Cells, 2019	Link
Lumascope	Three-Dimensional Spheroid Culture on Polymer-Coated Surface Potentiate Stem Cell Functions via Enhanced Cell–Extracellular Matrix Interactions	SJ Yu, G Choi, Y Cho, M Lee, et al	ACS Biomaterials, 2020	Link

LS620	Modified parylene-N films as chemical microenvironments for differentiation and spheroid formation of osteoblast cells	TH Kim, JS Lee, H Jo, Y Park, M Yun, Z Song, et al	Nature Scientific Reports, 2020	Link
Lumascope	Snake Tracks in Polymer Land: Wavy Polymer Structures via Selective Solvent Vapor Annealing	YJ Chiu, CC Weng, HF Tseng, HH Hsu, JT Chen, et al	Langmuir Journal, 2020	Link
LS500	Microfluidic Device for Microinjection of <i>Caenorhabditis elegans</i>	R Ghaemi, J Tong, BP Gupta, PR Selvaganapathy, et al	Micromachines, 2020	Link
LS720	On-demand droplet collection for capturing single cells	Rudy Chang, Juan Castillo, Alexander C. Zambon, et al	Neurodegenerative Diseases, 2020	Link
LS720	In vitro microfluidic disease model to study whole blood-endothelial interactions and blood clot dynamics in real-time	XD Manz, HJ Albers, P Symersky, J Aman et al	Jove Journal, 2020	Link
LS720	Physiological Genomics of Cell States and Their Regulation and Single Cell Genomics: Methods and sensors for functional genomic studies of cell-cycle	AC Zambon, T Hsu, SE Kim, M Klinck, et al	American Physiological Society, 2020	Link
LS720	Methods and sensors for functional genomic studies of cell-cycle transitions in single cells	AC Zambon, T Hsu, SE Kim, M Klinck, et al	American Physiological Society, 2020	Link
LS620	A gain of function paradox: Targeted therapy for glioblastoma associated with abnormal NHE9 expression	AE Pall, L Juratli, et al	Journal of Cellular and Molecular Medicine	Link
LS720	Vimentin plays a crucial role in fibroblast ageing by regulating biophysical properties and cell migration	K Sliogeryte, N Gavara, et al	Cells, 2019	Link
LS720	Postinjury inhibition of miR-181a promotes restoration of hippocampal CA1 neurons after transient forebrain ischemia in rats	BB Griffiths, YB Ouyang, et al	eNeuro, 2019	Link
LS620	Migration properties distinguish tumor cells of classical Hodgkin lymphoma from anaplastic large cell lymphoma cells	O Goncharova, N Flinner, et al	Cancers, 2019	Link
LS460	Integrated elastomer-based device for measuring the mechanics of adherent cell monolayers	F Sorba, A Poulin, R Ischer, et al	Lab on a Chip, 2019	Link
LS620	The anti-tumorigenic activity of Sema3C in the chick embryo chorioallantoic membrane model	I Valiulytė, R Curkūnavičiūtė, et al	International Journal of Molecular Sciences, 2019	Link
LS720	Ferroptosis contributes to isoflurane neurotoxicity	Y Xia, X Sun, Y Luo, CM Stary	Frontiers in Molecular Neuroscience, 2019	Link
LS500	YAP, Δ Np63, and β -catenin signaling pathways are involved in the modulation of corneal epithelial stem cell phenotype induced by substrate stiffness	RM Gouveia, F Vajda, JA Wibowo, et al	Cells, 2019	Link
LS720	Dual stem cell therapy synergistically improves cardiac function and vascular regeneration following myocardial infarction	SJ Park, RY Kim, BW Park, S Lee, et al	Nature, 2019	Link
LS600	Micropatterning of endothelial cells to create a capillary-like network with defined architecture by laser-assisted bioprinting	O Kérourédan, JM Bourget, M Rémy, et al	Journal of Materials, 2019	Link
LS720	Stem Cell-Derived Exosomes Protect Astrocyte Cultures From in vitro Ischemia and Decrease Injury as Post-stroke Intravenous Therapy	X Sun, JH Jung, O Arvola, MR Santoso, et al	Frontiers in Cellular Imaging, 2019	Link
Lumascope	Effect of flaxseed Lignans concentrate loaded Transfersome on oxidative stress in <i>Caenorhabditis elegans</i>	B Kisan, B Madhusudha	PhytoJournal, 2019	Link
Lumascope	GSK-3 β disrupts neural oscillatory function to inhibit learning and memory in rats	AM Albeely, OOF Williams, M Perreault, et al	University of Guelph, 2019	Link
LS720	Applications of optogenetic tandem-cell units for in vitro study of cardiac electrophysiology	GM Kostecki	PhD Thesis, Johns Hopkins Univ, 2019	Link
LS620	Spindlin1 alters the metaphase to anaphase transition in meiosis I through regulation of BUB3 expression in porcine oocytes	JW Choi, W Zhou, ZW Nie, et al	Journal of Cellular Physiology, 2019	
LS720	CSN5 inhibition triggers inflammatory signaling and Rho/ROCK-dependent loss of endothelial integrity	J Majolée, MCA Pronk, KK Jim, et al	Nature, Scientific Reports, May 2019	Link
LS620	Membrane insertion of soluble CLIC1 into active chloride channels is triggered by specific divalent cations	Lorena Varela, Alex C. Hendry, Encarnacion Medina-Carmona, Diego	Cold Spring Harbor Laboratory, 2019	Link

LS620	The Evolutionary Diversity and Biological Function of Phenazine Metabolite Biosynthesis in Burkholderia SPP	S Hendry	University of Southern Mississippi, 2019	Link
LS500	Stochastic and heterogeneous cancer cell migration: experiment and theory	T Kwon, OS Kwon, HJ Cha, BJ Sung	Nature, Scientific Reports, Nov 2019	Link
LS720	Low molecular weight hydrogels as a strategy to coat enzymatic biofuel cells to enhance functionality and biocompatibility	Kotagudda R Sindhu, 2019	University of Bordeaux, 2019	Link
LS720	Extended hopanoid loss reduces bacterial motility and surface attachment and leads to heterogeneity in root nodule growth kinetics in a Bradyrhizobium	BJ Belin, EM Tookmanian et al, 2019	Molecular Plant Microbe Interactions, 2019	
LS720	Developing a novel organ-on-a-chip model to study ovarian cancer	Matthew J Dibble	PhD Program, Queen Mary Univ London	Link
LS620	CRISPR interference-based platform for multimodal genetic screens in human iPSC-derived neurons	R Tian, MA Gachechiladze, CH Ludwig, MT Laurie	Neuron, 2019 - cell.com	Link
LS720	Ferroptosis Contributes to Isoflurane Neurotoxicity	Xia et al, 2019	Front Mol Neurosci 11:486	Link
LS620	Oncosuppressive role of RUNX3 in human astrocytomas	Steponaitis et al, 2019	J Oncology 2019:1-10	Link
LS620	Bioactivity Profiling of Small-Volume Samples by Nano Liquid Chromatography Coupled to Microarray Bioassaying Using High- Resolution Fractionation	Zietek, et al, 2019	Anal. Chem.2019911610458-10466	Link
LS620	Fipronil induces apoptosis and cell cycle arrest in porcine oocytes during in vitro maturation	Zhou et al, 2019	Apoptosis (2019) 24: 718	Link
LS720	Extended Hopanoid Loss Reduces Bacterial Motility and Surface Attachment and Leads to Heterogeneity in Root Nodule Growth Kinetics in a Bradyrhizobium-Aeschynomene Symbiosis	Belin et al, 2019	MOL PLANT MICROBE IN 32, 10	Link
LS620	Functional roles of hnRNP2/B1 regulated by METTL3 in mammalian embryonic development	Kwon et al, 2019	Sci Rep 9:86.40	Link
LS720	Modeling the effect of the metastatic microenvironment on phenotypes conferred by estrogen receptor mutations using a human liver microphysiological system	Miedel et al, 2019	Sci Rep 9:8341	Link
LS620	Formation of a three-dimensional tubular endothelial cell networks under defined serum-free cell culture conditions in human collagen hydrogels	Andree et al, 2019	Sci Rep 9:5437	Link
LS620	Acentriolar microtubule organization centers and Ran-mediated microtubule formation pathways are both required in porcine oocytes	Kim et al, 2019	Mol Reprod Dev: 86, 8: 972-983	Link
LS500	Modulation of corneal tissue mechanics influences epithelial cell phenotype	Gouveia et al, 2018	bioRxiv July, 2018	Link
LS720	Lifect-GFP alters F-actin organization, cellular morphology and biophysical behaviour	Flores et al, 2019	Sci Rep 9:3241	Link
LS600	Electroporation: A Sustainable and Cell Biology Preserving Cell Labeling Method for Adipogenic Mesenchymal Stem Cells	von der Haar et al, 2019	Biores Open Access: 8, 1, 2019	Link
LS720	Mimicking the endothelial glycocalyx through supramolecular presentation of hyaluronan on patterned surfaces	Pang et al, 2019	Faraday Discuss	Link
LS 620	Sunny-Side-Up Egg-Shaped Structures: Surface Modification To Form Anisotropic Polymer Particles Driven by the Plateau-Rayleigh Instability as Fluorescence Manipulation Platforms	Chiu et al, 2019	Macromolecules 2019 52 4 1601-1608	Link
LS560	BioFlux, a 200 Microfluidic System to Study A. baumannii Biofilm Formation in a Dynamic Mode of Growth	Naudin, et al, 2019	Acinetobacter baumannii: 167-176	Link
LS600	Micropatterning of endothelial cells to create a capillary-like network with defined architecture by laser-assisted bioprinting	Kouroukian et al, 2019	J Mater Sci Mater Med.	Link
LS620	Isocytosine deaminase Vcz as a novel tool for the prodrug cancer therapy.	Kazlauskas et al, 2019	BMC Cancer 19: 197	Link
LS620	Hesperidin structurally modified by gamma irradiation induces apoptosis in murine melanoma B16BL6 cells and inhibits both subcutaneous tumor growth and metastasis in C57BL/6 mice	Byun et al, 2019	Food Chem Toxicol:1-10	Link

LS600	The biogenic amines putrescine and cadaverine show in vitro cytotoxicity at concentrations that can be found in foods	del Rio et al, 2019	Sci Rep 9:120	Link
LS620	Fluidic bypass structures for improving the robustness of liquid scanning probes	Taylor & Kaigala, 2019	IEEE Trans Biomed Eng, Jan 1	Link
LS600	Microfluidic Sensors with Impregnated Fluorophores for Simultaneous Imaging of Spatial Structure and Chemical Oxygen Gradients	Grate et al, 2019	ACS Sens 4:317-325	Link
LS620	Spire localization via zinc finger-containing domain is crucial for the asymmetric division of mouse oocyte	Jo et al, 2019	FASEB J 33:4432-4447	Link
LS720	Engineered Heart Slice Model of Arrhythmogenic Cardiomyopathy Using Plakophilin-2 Mutant Myocytes	Blazeski et al, 2019	Tissue Eng Part A, Feb 15	Link
LS620	Crosstalk between SOX2 and cytokine signaling in endometrial carcinoma	Lee et al, 2018	Sci Rep 8:17550	Link
LS600	Spermine and spermidine are cytotoxic towards intestinal cultures, but are they a health hazard at concentrations found in foods?	del Rio et al, 2018	Food Chem 269:321-326	Link
LS720	Extended hopanoid lipids promote bacterial motility, surface attachment, and root nodule development in the Bradyrhizobium diazoefficiens-Aeschynomene afraspera symbiosis	Belin et al, 2018	bioRxiv Sep, 2018	Link
LS620	Importance of the putative furin recognition site 742RNRR745 for antiangiogenic Sema3C activity in vitro	Valiulyte et al, 2018	Braz J Med Biol Res 51:37786	Link
LS620	Spindlin1 alters the metaphase to anaphase transition in meiosis I through regulation of BUB3 expression in porcine oocytes	Choi et al, 2018	J Cell Physiol (Oct 14):1-12	Link
LS620	Consistent and reproducible cultures of large-scale 3D mammary epithelial structures using an accessible bioprinting platform	Reid et al, 2018	Breast Cancer Res 20:122	Link
LS720	Targeting peroxiredoxin 1 impairs growth of breast cancer cells and potently sensitises these cells to prooxidant agents	Bajor et al, 2018	Br J Cancer 119:873-884	Link
LS720	Brain endothelial erythrophagocytosis and hemoglobin transmigration across brain endothelium: implications for pathogenesis of cerebral microbleeds	Chang et al, 2018	Front Cell Neurosci 12:279	Link
LS720	Extracellular fluid viscosity enhances liver cancer cell mechanosensing and migration	Gonzalez-Molina et al, 2018	Biomaterials 177:113-124	Link
LS600	Neuroprotective effect of polysaccharide separated from <i>Perilla frutescens</i> Britton var. <i>acuta</i> Kudo against H ₂ O ₂ -induced oxidative stress in HT22 hippocampus cells	Byun et al, 2018	Biosci Biotechnol Biochem 82(8):1344-1358	Link
LS620	Simple, low-cost fabrication of acrylic based droplet microfluidics and its use to generate DNA-coated particles	Islam et al, 2018	Sci Rep 8:8763	Link
LS600	Comparison of different three-dimensional-printed resorbable materials: In vitro biocompatibility, in vitro degradation rate, and cell differentiation support	Raddatz et al, 2018	J Biomater Appl 33(2):281-294	Link
LS620	Transcription factor-mediated differentiation of human iPSCs into neurons	Fernandopulle et al, 2018	Curr Protoc Cell Biol e51(79):1-48	Link
LS500	Integrative bioinformatics analysis characterizing the role of EDC3 in mRNA decay and its association to intellectual disability	Scheller et al, 2018	BMC Med Genomics 11:41	Link
LS720	Cobalt (II) ions and nanoparticles induce macrophage retention by ROS-mediated down-regulation of RhoA expression	Xu et al, 2018	Acta Biomater 72:434-446	Link
LS600	Positive in vitro wound healing effects of functional inclusion bodies of a lipoxygenase from the Mexican axolotl	Stamm et al, 2018	Microb Cell Fact 17:57	Link
LS600	Gamma irradiation of aloe-emodin induced structural modification and apoptosis through a ROS- and caspase-dependent mitochondrial pathway in stomach tumor cells	Byun et al, 2018	Int J Radiat Biol 94(4):403-416	Link
LS720	The Cullin-3-Rbx1-KCTD10 complex controls endothelial barrier function via K63 ubiquitination of RhoB	Kovacevic et al, 2018	J Cell Biol 217(3):1015	Link
LS620	Application of the Open qPCR Instrument for the in Vitro Selection of DNA Aptamers against Epidermal Growth Factor Receptor and Drosophila C Virus	Damase et al, 2018	ACS Comb Sci 20:45-54	Link

Lumascope	Human stromal cells in combination with exogenous stimuli facilitate three-dimensional network formation of human endothelial cells derived from	Manikowski et al, 2018	Vasc Pharmacol 106:28-36	Link
LS620	Deterministic Lateral Displacement: The Next-Generation CAR T-Cell Processing?	Campos-Gonzalez et al, 2018	SLAS Technol 23(4):338-351	Link
LS620	Sodium fluoride exposure exerts toxic effects on porcine oocyte maturation	Liang et al, 2017	Sci Rep 7(1):17082	Link
LS500	Developing a continuous bioprocessing approach to stromal cell manufacture	Miotto et al, 2017	ACS Appl Mater Interfaces 9:41131-41142	Link
LS720	The minor histocompatibility antigen 1 (HMHA1)/ArhGAP45 is a RacGAP and a novel regulator of endothelial integrity	Amado-Azevedo et al, 2018	Vascul Pharmacol 101:38-47	Link
LS620	Distinct roles of Cep192 and Cep152 in acentriolar MTOCs and spindle formation during mouse oocyte maturation	Lee et al, 2017	FASEB J, pub online Oct 2, 2017	Link
Lumacope	A uniform-shear rate microfluidic bioreactor for real-time study of proplatelet formation and rapidly-released platelets	Martinez et al, 2017	Biotechnol Prog, pub online Oct 13, 2017	Link
LS500	IGFBP2 plays an important role in heat shock protein 27-mediated cancer progression and metastasis	Hung et al, 2017	Oncotarget 8:54978-54992	Link
Lumascope	A PP2A-mediated feedback mechanism controls Ca ²⁺ -dependent NO synthesis under physiological oxygen	Keeley et al, 2017	FASAB J, pub online July 31, 2017	Link
LS600	Revelation of different nanoparticle-uptake behavior in two standard cell lines NIH/3T3 and A549 by flow cytometry and time-lapse imaging	Jochums et al, 2017	Toxics 5:1-12	Link
LS620	Biomimetic molecular signaling using DNA walkers on microparticles	Damase et al, 2017	Sci Rep 7:4081	Link
Lumascope	Chitosan-based hydrogels for developing a small-diameter vascular graft: in vitro and in vivo evaluation	Aussel et al, 2017	Biomed Mater 12:	Link
LS500	Characterization of microfluidic clamps for immobilizing and imaging of Drosophila melanogaster larva's central nervous system	Ghaemi et al, 2017	Biomicrofluidics 11,34113	Link
LS500	Synergistic targeting of breast cancer stem-like cells by human gamma-delta T cells and CD8+ T cells	Chen et al, 2017	Immunol Cel Biol (May 2017) pp 1-10	Link
LS500	Agarose spot as a comparative method for in situ analysis of simultaneous chemotactic responses to multiple chemokines	Ahmed et al, 2017	Sci Rep 7:1075	Link
LS620	Protein phosphatase 2A regulatory subunit B55a functions in mouse oocyte maturation and early embryonic development	Liang et al, 2017	Oncotarget 8(16): 26979-26991	Link
LS620	Spindlin 1 is essential for metaphase II stage maintenance and chromosomal stability in porcine oocytes	Choi et al, 2017	Mol Hum Reprod 23:166-176	Link
LS620	Dengue virus infection increases microglial cell migration	Jhan et al, 2017	Sci Rep 7:91	Link
LS600	The dietary biogenic amines tyramine and histamine show synergistic toxicity towards intestinal cells in culture	del Rio et al, 2017	Food Chem 218:249-255	Link
LS620	Effects of antifreeze glycoprotein 8 (AFGP8) supplementation during vitrification on the in vitro developmental capacity of expanded bovine blastocysts	Liang et al, 2017	Reprod Fertil Dev (Feb 28) pp A-I	Link
LS500	Electrophoretic concentration and electrical lysis of bacteria in a microfluidic device using a nanoporous membrane	Islam et al, 2017	Micromachines 8, 45:1-19	Link
LS620	Na ⁺ /H ⁺ Exchanger 9 Regulates Iron Mobilization at the Blood-Brain Barrier in Response to Iron Starvation	Beydoun et al, 2017	J Biol Chem 292:4293-4301	Link
Lumascope	Precise observation of C. elegans dynamic behaviours under controlled thermal stimulus using a mobile phone-based microscope	Yoon et al, 2017	J Microsc 266:28-34	Link

LS500	Antimicrobial activity, cytotoxicity and chemical analysis of lemongrass essential oil (Cymbopogon flexuosus) and pure citral	Adukwu et al, 2016	Appl Microbiol Biotechnol 100:9619-9627	Link
LS620	Anillin controls cleavage furrow formation in the course of asymmetric division during mouse oocyte maturation	Lee et al, 2016	Mol Reprod Dev 83:792-801	Link
LS500	Polysialic acid sustains cancer cell survival and migratory capacity in a hypoxic environment	Elkashef et al, 2016	Sci Rep (Sep 9) pp 1-11	Link
LS500	Thrombomodulin influences the survival of patients with non-metastatic colorectal cancer through epithelial-to-mesenchymal transition (EMT)	Chang et al, 2016	PLoS One (Aug 11) pp 1-13	Link
LS500	Intercellular transfer of P-glycoprotein in human blood-brain barrier endothelial cells is increased by histone deacetylase inhibitors	Noack et al, 2016	Sci Rep (Jul 4), pp 1-10	Link
LS620	Tropomodulin-3 is essential in asymmetric division during mouse oocyte maturation	Jo et al, 2016	Sci Rep (Jul 4), pp 1-14	Link
LS620	Accessible bioprinting: adaptation of a low-cost 3D-printer for precise cell placement and stem cell differentiation.	Reid et al, 2016	Biofabrication 8:1-12	Link
LS600	Intermolecular biparatopic trapping of ErbB2 prevents compensatory activation of PI3K/AKT via RAS-p110 crosstalk	Tamaskovic et al, 2016	Nat Commun (Jun 3), pp 1-18	Link
LS500	Cytotoxic amounts of cisplatin induce either checkpoint adaptation or apoptosis in a concentration-dependent manner in cancer cells	Swift & Golsteyn, 2016	Biol Cell 108:127-148	Link
LS600	Screening of Bifidobacteria and Lactobacilli able to antagonize the cytotoxic effect of Clostridium difficile upon intestinal epithelial HT29 monolayer	Vald�s-Varela et al, 2016	Front Microbiol 7:1-12	Link
LS620	A quantitative cell modeling and wound-healing analysis based on the Electric Cell-substrate Impedance Sensing (ECIS) method	Yang et al, 2016	Comput Biol Med 69:134-143	Link
LS620	Depletion of the LINC complex disrupts cytoskeleton dynamics and meiotic resumption in mouse oocytes	Luo et al, 2016	Sci Rep (Feb 4), pp 1-11	Link
Lumascope	A systemized approach to investigate Ca ²⁺ synchronization in clusters of human induced pluripotent stem-cell derived cardiomyocytes	Jones et al, 2016	Front Cell Dev Biol 3:1-16	Link
LS400	Abasic pivot substitution harnesses target specificity of RNA interference	Lee et al, 2015	Nat Commun (Dec 18), pp 1-14	Link
LS500	Glucose-regulated protein 94 mediates metastasis by CCT8 and the JNK pathway in hepatocellular carcinoma	Wei et al, 2016	Tumor Biol 37:8219-8227	Link
LS600	Monitoring in real time the cytotoxic effect of Clostridium difficile upon the intestinal epithelial cell line HT29	Vald�s et al, 2015	J Microbiol Methods 119:66-73	Link
LS600	Comparative analysis of the in vitro cytotoxicity of the dietary biogenic amines tyramine and histamine	Linares et al, 2016	Food Chem 197:658-663	Link
LS500	A microfluidic device for rapid quantification of cell-free DNA in patients with severe sepsis	Yang et al, 2015	Lab Chip 15:3925-3933	Link
LS600	Cytokine-induced killer cells efficiently kill stem-like cancer cells of nasopharyngeal carcinoma via the NKG2D-ligands recognition	Wei et al, 2015	Oncotarget 6:35023-35039	Link
LS620	Open source and DIY hardware for DNA nanotechnology labs	Damase et al, 2015	J Biol Methods 2:1-16	Link
LS600	Evaluation of CdTe/CdS/ZnS core/shell/shell quantum dot toxicity on three-dimensional spheroid cultures	Ulusoy et al, 2016	Toxicol Res 5:126-135	Link
LS600	Recognition and killing of cancer stem-like cell population in hepatocellular carcinoma cells by cytokine-induced killer cells via NKG2d-ligands recognition	Rong et al, 2016	Oncoimmunology 5:1-14	Link
Lumascope	Potential and limitations of microscopy and Raman spectroscopy for live-cell analysis of 3D cell cultures	Charwat et al, 2015	J Biotechnol 205:70-81	Link
Lumascope	The design and discovery of water soluble 4-substituted-2,6-dimethylfuro[2,3-d]pyrimidines as multitargeted receptor tyrosine kinase inhibitors and microtubule targeting antitumor agents	Zhang et al, 2015	Bioorg Med Chem: 22:3753-3772	Link

Lumascope	Low-glucose enhances keratocyte-characteristic phenotype from corneal stromal cells in serum-free conditions	Foster et al, 2015	Sci Rep (Jun 3), pp 1-16	Link
Lumascope	New self-assembling multifunctional templates for the biofabrication and controlled self-release of cultured tissue	Gouveia et al, 2015	Tissue Eng, Pt 2, 21:1772-1784	Link
LS500	Microfluidic devices for imaging neurological response of Drosophila melanogaster larva to auditory stimulus	Ghaemi et al, 2015	Lab Chip 15:1116-1122	Link
LS500	Inception of vortical coherent structures from spinning magnetic nanoparticles in rotating magnetic fields – New nanofluid microscale mixing tool	Gravel et al, 2015	Chem Eng J 260:338-346	Link
LS500	An in vitro microfluidic gradient generator platform for antimicrobial testing	DiCicco & Neethirajan, 2015	BioChip J 8:282-288	Link
LS500	A library of mammalian effector modules for synthetic morphology	Cachat et al, 2014	J Biol Eng 8:1-11	Link
Lumascope	Hydrogels for 3D mammalian cell culture: a starting guide for laboratory practice	Ruedinger et al, 2015	Appl Microbiol Biotechnol 99:623-636	Link
LS500	Node retraction during patterning of the urinary collecting duct system	Lindström et al, 2015	J Anat 226:13-21	Link
LS400	Role of substrate flexibility on cardiac cell culture electrophysiological properties	L. Gómez-Cid et al, 2016	Comput Cardiol 43:749-752	Link
LS500	Live cell imaging and biophotonic methods reveal two types of mutant huntingtin inclusions	Caron et al, 2014	Hum Mol Genet 23:2324-2338	Link
Lumascope	Discovery of antitubulin agents with antiangiogenic activity as single entities with multitarget chemotherapy potential	Gangjee et al, 2014	ACS Med Chem Lett 5:480-484	Link
LS500	Magnetically induced agitation in liquid-liquid-magnetic nanoparticle emulsions: Potential for process intensification	Olivier et al, 2014	AIChE J 60:1176-1181	Link
Lumascope	Bioactive films produced from self-assembling peptide amphiphiles as versatile substrates for tuning cell adhesion and tissue architecture in serum-free conditions	Gouveia et al, 2013	J Mater Chem B 1:6157-6169	Link