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Publications 2019

Spatially Restricted Stromal Wnt Signaling Restrains Prostate Epithelial Progenitor Growth through Direct and Indirect Mechanisms

Wei X, Zhang L, Zhou Z, Kwon O, Zhang Y, et. al.

Cell Stem Cell

2019 vol: 24 (5) pp: 753-768.e6

Fabrication of microfluidic channels with various cross-sectional shapes using anisotropic etching of Si and self-alignment

Lee D, Kwon J, Cho Y

Applied Physics A

2019 vol: 125 (5) pp: 291

Repurposing of the Nootropic Drug Vinpocetine as an Analgesic and Anti-Inflammatory Agent: Evidence in a Mouse Model of Superoxide Anion-Triggered Inflammation

Lourenco-Gonzalez Y, Fattori V, Domiciano T, Rossaneis A, Borghi S, et. al.

Mediators of Inflammation

2019 vol: 2019 pp: 1-14

Verification of Non-thermal Effects of 0.3–0.6 THz-Waves on Human Cultured Cells

Yaekashiwa N, Yoshida H, Otsuki S, Hayashi S, Kawase K, et. al.

Photonics

2019 vol: 6 (1) pp: 33

An Increase in Membrane Cholesterol by Graphene Oxide Disrupts Calcium Homeostasis in Primary Astrocytes

Bramini M, Chiacchiaretta M, Armirotti A, Rocchi A, Kale D, et. al.

Small

2019 vol: 15 (15) pp: 1900147

Diagenesis of mollusc aragonite and the role of fluid reservoirs

Pederson C, Mavromatis V, Dietzel M, Rollion-Bard C, Nehrke G, et. al.

Earth and Planetary Science Letters

2019 vol: 514 pp: 130-142

Treatment with maresin 1, a docosahexaenoic acid-derived pro-resolution lipid, protects skin from inflammation and oxidative stress caused by UVB irradiation

Cezar T, Martinez R, Rocha C, Melo C, Vale D, et. al.

Scientific Reports

2019 vol: 9 (1) pp: 3062

Differential expression of a prophage-encoded glycocin and its immunity protein suggests a mutualistic strategy of a phage and its host

Denham E, Piersma S, Rinket M, Reilman E, de Goffau M, et. al.

Scientific Reports

2019 vol: 9 (1) pp: 2845

A PKA/cdc42 Signaling Axis Restricts Angiogenic Sprouting by Regulating Podosome Rosette Biogenesis and Matrix Remodeling

MacKeil J, Brzezinska P, Burke-Kleinman J, Craig A, Nicol C, et. al.

Scientific Reports

2019 vol: 9 (1) pp: 2385

Taxifolin protects neurons against ischemic injury in vitro via the activation of antioxidant systems and signal transduction pathways of GABAergic neurons

Turovskaya M, Gaidin S, Mal'tseva V, Zinchenko V, Turovsky E

Molecular and Cellular Neuroscience

2019 vol: 96 pp: 10-24

Plasmids for independently tunable, low-noise expression of two genes

Silva J, Lopes S, Grilo D, Hensel Z

bioRxiv

2019 pp: 515940

Link between the unfolded protein response and dysregulation of mitochondrial bioenergetics in Alzheimer's disease

Poirier Y, Grimm A, Schmitt K, Eckert A

Cellular and Molecular Life Sciences

2019 vol: 76 (7) pp: 1419-1431

Patient-Derived Phenotypic High-Throughput Assay to Identify Small Molecules Restoring Lysosomal Function in Tay–Sachs Disease

Colussi D, Jacobson M

SLAS DISCOVERY: Advancing Life Sciences R&D

2019 vol: 24 (3) pp: 295-303

Development of A New Delivery System Based on Drug-Loadable Electrospun Nanofibers for Psoriasis Treatment

Martínez-Ortega L, Mira A, Fernandez-Carvajal A, Mateo C, Mallavia R, et. al.

Pharmaceutics

2019 vol: 11 (1) pp: 14

A novel multiproxy approach to reconstruct the paleoecology of extinct cephalopods

Hoffmann R, Riechelmann S, Ritterbush K, Koelen J, Lübke N, et. al.

Gondwana Research

2019 vol: 67 pp: 64-81

Microwell array integrating nanoelectrodes for coupled opto-electrochemical monitorings of single mitochondria

Vajrala V, Sekli Belaidi F, Lemercier G, Zigah D, Rigoulet M, et. al.

Biosensors and Bioelectronics

2019 vol: 126 pp: 672-678

Considerations for Measurement of Embryonic Organ Growth

Prakash S, de Boer B, Hagoort J, Gunst Q, Ruijter J, et. al.

The Anatomical Record

2019 vol: 302 (1) pp: 49-57

Pleistocene sea-floor fibrous crusts and spherulites in the Danakil Depression (Afar, Ethiopia)

Jaramillo-Vogel D, Foubert A, Braga J, Schaegis J, Atnafu B, et. al.

Sedimentology

2019 vol: 66 (2) pp: 480-512

Publications 2018

A genetically engineered microRNA-34a prodrug demonstrates anti-tumor activity in a canine model of osteosarcoma

Alegre F, Ormonde A, Snider K, Woolard K, Yu A, et. al.

2018 vol: 13 (12) pp: e0209941

Trace element characterization of bitumen constraints on the hydrocarbon source of the giant gas field in Sichuan Basin, South China

Ni Z, Chen Z, Li M, Yang C, Wen L, et. al.

Geological Journal

2018

Negative feedback increases information transmission, enabling bacteria to discriminate sublethal antibiotic concentrations

Ruiz R, de la Cruz F, Fernandez-Lopez R

Science Advances

2018 vol: 4 (11) pp: eaat5771

Meso-Scale Particle Image Velocimetry Studies of Neurovascular Flows *In Vitro*

Peck R, Bahena E, Jahan R, Aguilar G, Tsutsui H, et. al.

Journal of Visualized Experiments

2018 (142) pp: e58902

Protoplast isolation and regeneration from *Hecatonema terminale* (Ectocarpales, Phaeophyceae) using a simple mixture of commercial enzymes

Avila-Peltroche J, Won B, Cho T

Journal of Applied Phycology

2018 pp: 1-9

Subdiffusion of loci and cytoplasmic particles are different in compressed *Escherichia coli* cells

Yu S, Sheats J, Cicuta P, Sclavi B, Cosentino Lagomarsino M, et. al.

Communications Biology

2018 vol: 1 (1) pp: 176

Functional analysis of a triplet deletion in the gene encoding the sodium glucose transporter 3, a potential risk factor for ADHD

Schäfer N, Friedrich M, Jørgensen M, Kollert S, Koepsell H, et. al.

2018 vol: 13 (10) pp: e0205109

Fast changes of NMDA and AMPA receptor activity under acute hyperammonemia *in vitro*

Kosenkov A, Gaidin S, Sergeev A, Teplov I, Zinchenko V

Neuroscience Letters

2018 vol: 686 pp: 80-86

Synthesis and Characterization of a Novel Green Cationic Polyfluorene and Its Potential Use as a Fluorescent Membrane Probe

Vázquez-Guilló R, Martínez-Tomé M, Kahveci Z, Torres I, Falco A, et. al.

Polymers

2018 vol: 10 (9) pp: 938

Distributed rhythm generators underlie *Caenorhabditis elegans* forward locomotion

Fouad A, Teng S, Mark J, Liu A, Alvarez-Illera P, et. al.

eLife

2018 vol: 7

Feasibility, accuracy and safety of a percutaneous fine-needle biopsy technique to obtain qualitative muscle samples of the lumbar multifidus and erector spinae muscle in persons with low back pain

Agten A, Verbrugghe J, Stevens S, Boomgaert L, O. Eijnde B, et. al.

Journal of Anatomy

2018 vol: 233 (4) pp: 542-551

Spatial Fold Change of FGF Signaling Encodes Positional Information for Segmental Determination in Zebrafish

Simsek M, Özbudak E

Cell Reports

2018 vol: 24 (1) pp: 66-78.e8

ReAsH/tetracycline-based correlative light-electron microscopy for HIV-1 imaging during the early stages of infection

Lysova I, Spiegelhalter C, Réal E, Zgheib S, Anton H, et. al.

Methods and Applications in Fluorescence

2018 vol: 6 (4) pp: 045001

Triglyceride Structure Modulates Gastrointestinal Digestion Fates of Lipids: A Comparative Study between Typical Edible Oils and Triglycerides Using Fully Designed in Vitro Digestion Model

Ye Z, Cao C, Liu Y, Cao P, Li Q

Journal of Agricultural and Food Chemistry

2018 vol: 66 (24) pp: 6227-6238

Digestion fates of different edible oils vary with their composition specificities and interactions with bile salts

Ye Z, Cao C, Liu Y, Cao P, Li Q

Food Research International

2018 vol: 111 pp: 281-290

An Optogenetic Platform for Real-Time, Single-Cell Interrogation of Stochastic Transcriptional Regulation

Rullan M, Benzinger D, Schmidt G, Miliadis-Argeitis A, Khammash M

Molecular Cell

2018 vol: 70 (4) pp: 745-756.e6

TiN Nanoporous Electrode Covered by Single Cell as Bio-Electronic Sensor of Radiation Hazard

Stupin D

Semiconductors

2018 vol: 52 (5) pp: 600-601

Electrotaxis: Cell Directional Movement in Electric Fields

Sroka J, Zimolag E, Lasota S, Korohoda W, Madeja Z

Cell Migration

2018 pp: 325-340

ATP-mediated Events in Peritubular Cells Contribute to Sterile Testicular Inflammation

Walenta L, Fleck D, Fröhlich T, von Eysmondt H, Arnold G, et. al.

Scientific Reports

2018 vol: 8 (1) pp: 1431

Elastic particle deformation in rectangular channel flow as a measure of particle stiffness

Hwang M, Kim S, Lee H, Muller S

Soft Matter

2018 vol: 14 (2) pp: 216-227

Publications 2017

The importance of filamentous cyanobacteria in the development of oxygenic photogranules

Milferstedt K, Kuo-Dahab W, Butler C, Hamelin J, Abouhend A, et. al.

Scientific Reports

2017 vol: 7 (1) pp: 17944

Poly(methyl vinyl ether-alt-maleic acid) and ethyl monoester as building polymers for drug-loadable electrospun nanofibers

Mira A, Mateo C, Mallavia R, Falco A

Scientific Reports

2017 vol: 7 (1) pp: 17205

Cochlear Pericytes Are Capable of Reversibly Decreasing Capillary Diameter In Vivo After Tumor Necrosis Factor Exposure

Bertlich M, Ihler F, Weiss B, Freytag S, Strupp M, et. al.

Otology & Neurotology

2017 vol: 38 (10) pp: e545-e550

Ultrasensitive optical imaging with lanthanide lumiphores

Cho U, Riordan D, Ciepla P, Kocherlakota K, Chen J, et. al.

Nature Chemical Biology

2017 vol: 14 (1) pp: 15-21

Impaired caudal fin-fold regeneration in zebrafish deficient for the tumour suppressor Pten

Hale A, Kiai A, Sikkens J, den Hertog J

Regeneration

2017

Phenotypes of dnaX_{E145A} mutant cells indicate that the Escherichia coli clamp loader has a role in the restart of stalled replication forks

Flåtten I Helgesen E Pedersen I Waldminghaus T Rothe C et. al.

Journal of bacteriology

2017 pp: JB.00412-17

Comparative Study of Interfacial and Biological Properties in d-Glycerate-Derived Surfactants

Sato S, Nagata S, Kitamoto D, Takahashi Y, Kondo Y, et. al.

Journal of the American Oil Chemists' Society

2017 vol: 94 (11) pp: 1393-1401

Role of capillary pericytes and precapillary arterioles in the vascular mechanism of betahistine in a guinea pig inner ear model

Bertlich M, Ihler F, Weiss B, Freytag S, Strupp M, Jakob M, Canis M

Life Sciences

2017 vol: 187 pp: 17-21

A Hydrogel/Carbon-Nanotube Needle-Free Device for Electrostimulated Skin Drug Delivery

Guillet J, Flahaut E, Golzio M

ChemPhysChem

2017 vol: 18 (19) pp: 2715-2723

Treatment of Cancer In Vitro Using Radiation and High Frequency Bursts of Sub-Microsecond Electrical Pulses

Sano M, Volotskova O, Xing L

IEEE Transactions on Biomedical Engineering

2017 pp: 1-1

Generation and characterization of monodisperse deformable alginate and pNIPAM microparticles with a wide range of shear moduli

Hwang M, Kim S, Lee H, Muller S

Soft Matter

2017 vol: 13 (34) pp: 5785-5794

DNA origami nanorobot fiber optic genosensor to TMV

Torelli E, Manzano M, Srivastava S, Marks R

Biosensors and Bioelectronics
2018 vol: 99 pp: 209-215

Can calcein and alizarin complexone be used for double immersion marking of juvenile qingbo *Spinibarbus sinensis*?

Lü H, Chapelsky A, Zhang Z, Li R, Rao W, et. al.
Fisheries Science
2017 vol: 83 (5) pp: 767-776

Differential Expression of VEGF-A_{xxx} Isoforms Is Critical for Development of Pulmonary Fibrosis

Barratt S, Blythe T, Jarrett C, Ourradi K, Shelley-Fraser G, et. al.
American Journal of Respiratory and Critical Care Medicine
2017 vol: 196 (4) pp: 479-493

Recovery of glomerular morphology in the olfactory bulb of young mice after disruption caused by continuous odorant exposure

Monjaraz-Fuentes F, Millán-Adalco D, Palomero-Rivero M, Hudson R, Drucker-Colín R
Brain Research
2017 vol: 1670 pp: 6-13

Evaluation and comparison of two microfluidic size separation strategies for vesicle suspensions

Storslett K, Muller S
Biomicrofluidics
2017 vol: 11 (3) pp: 034112

Probucol attenuates lipopolysaccharide-induced leukocyte recruitment and inflammatory hyperalgesia: effect on NF- κ B activation and cytokine production

Zucoloto A, Manchope M, Staurengo-Ferrari L, et. al.
European Journal of Pharmacology
2017 vol: 809 pp: 52-63

Flow of viscoelastic fluids around a sharp microfluidic bend: Role of wormlike micellar structure

Hwang M, Mohammadigoushki H, Muller S
Physical Review Fluids
2017 vol: 2 (4) pp: 043303

Cellular Decision Making by Non-Integrative Processing of TLR Inputs

Kellogg R, Tian C, Etzrodt M, Tay S

Cell Reports

2017 vol: 19 (1) pp: 125-135

Rational designed benzochalcone-based fluorescent probe for molecular imaging of hydrogen peroxide in live cells and tissues

Huang J, Li T, Liu R, Zhang R, Wang Q, Li N, Gu Y, Wang P

Sensors and Actuators B: Chemical

2017 vol: 248 pp: 257-264

Transport of fungal RAB11 secretory vesicles involves myosin-5, dynein/dynactin/p25 and kinesin-1 and is independent of kinesin-3

Peñalva M, Zhang J, Xiang X, Pantazopoulou A

Molecular biology of the cell

2017 pp: mbc.E16-08-0566

Characterization and *in vivo* regulon determination of an ECF sigma factor and its cognate anti-sigma factor in *Nostoc punctiforme*

Bell N, Lee J, Summers M

Molecular Microbiology

2017

IL-17 is a neuromodulator of *Caenorhabditis elegans* sensory responses

Chen C, Itakura E, Nelson G, Sheng M, Laurent P, et. al.

Nature

2017 vol: 542 (7639) pp: 43-48

Exploring the impact of diagenesis on (isotope) geochemical and microstructural alteration features in biogenic aragonite

Ritter A, Mavromatis V, Dietzel M, Kwiecien O, Wiethoff F, et. al.

Sedimentology

2017

Two differentially structured collagen scaffolds for potential urinary bladder augmentation: proof of concept study in a Göttingen minipig model

Leonhäuser D, Stollenwerk K, Seifarth V, Zraik I, Vogt M, et. al.

Journal of Translational Medicine

2017 vol: 15 (1) pp: 3

Warm ischemia time-dependent variation in liver damage, inflammation, and function in hepatic ischemia/reperfusion injury

Olthof P, van Golen R, Meijer B, van Beek A, Bennink R, et. al.

Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease
2017 vol: 1863 (2) pp: 375-385

Live Cell Imaging and Profiling of Cysteine Cathepsin Activity Using a Quenched Activity-Based Probe

Edgington-Mitchell L, Bogyo M, Verdoes M
Activity-Based Proteomics
2017 pp: 145-159

Publications 2016

Noise Induces Hopping between NF- κ B Entrainment Modes

Heltberg M, Kellogg R, Krishna S, Tay S, Jensen M
Cell Systems
2016 vol: 3 (6) pp: 532-539.e3

Measurement of relaxation times in extensional flow of weakly viscoelastic polymer solutions

Sousa P, Vega E, Sousa R, Montanero J, Alves M
Rheologica Acta
2016 pp: 1-10

Increased GABAB receptor signaling in a rat model for schizophrenia

Selten M, Meyer F, Ba W, Vallès A, Maas D, et. al.
Scientific Reports
2016 vol: 6 pp: 34240

Investigating Alternative Transport of Integral Plasma Membrane Proteins from the ER to the Golgi: Lessons from the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR)

Amaral M, Farinha C, Matos P, Botelho H
Unconventional Protein Secretion
2016 pp: 105-126

Selective recognition and imaging of bacterial model membranes over mammalian ones by using cationic conjugated polyelectrolytes

Kahveci Z, Vázquez-Guilló R, Mira A, Martinez L, Falcó A, et. al.
The Analyst
2016 vol: 141 (22) pp: 6287-6296

Alternative *in vitro* assays to assess the potency of sensory irritants—Is one TRP channel enough?

Lehmann R, Hatt H, van Thriel C

NeuroToxicology
2016

***Desulfovibrio vulgaris* CbiK^P cobaltochelatase: evolution of a haem binding protein orchestrated by the incorporation of two histidine residues**

Lobo S, Videira M, Pacheco I, Wass M, Warren M, et. al.
Environmental Microbiology
2016

Electrical muscle stimulation elevates intramuscular BDNF and GDNF mRNA following peripheral nerve injury and repair in rats

Willand M, Rosa E, Michalski B, Zhang J, Gordon T, et. al.
Neuroscience
2016 vol: 334 pp: 93-104

Shape-shifting colloids via stimulated dewetting

Youssef M, Hueckel T, Yi G, Sacanna S
Nature Communications
2016 vol: 7 pp: 12216

Immunolocalization of cyclotides in plant cells, tissues and organ supports their role in host defense

Slazak B, Kapusta M, Malik S, Bohdanowicz J, Kuta E et. al.
Planta
2016 pp: 1-12

DNA fragmentation in blue mussel (*Mytilus edulis*) sperm: aquaculture and fisheries implications

Kjelland M, López-Fernández C, Perez-García C, Gosálvez J
Aquaculture Research
2016

Different binarization processes validated against manual counts of fluorescent bacterial cells

Tamminga G, Paulitsch-Fuchs A, Jansen G, Euverink G
Journal of Microbiological Methods
2016 vol: 128 pp: 118-124

Jagged1 upregulation in prostate epithelial cells promotes formation of reactive stroma in the Pten null mouse model for prostate cancer

Su Q, Zhang B, Zhang L, Dang T, Rowley D et. al.
Oncogene
2016

Atypical mechanoreceptors in larvae of biting midges *Forcipomyia nigra* (Diptera: Ceratopogonidae)

Urbanek A, Kapusta M

Micron

2016 vol: 88 pp: 68-76

Notch promotes tumor metastasis in a prostate-specific Pten-null mouse model

Kwon O, Zhang L, Wang J, Su Q, Feng Q et. al.

Journal of Clinical Investigation

2016 vol: 126 (7) pp: 2626-2641

Evidence for a composite organic–inorganic fabric of belemnite rostra: Implications for palaeoceanography and palaeoecology

Hoffmann R, Richter D, Neuser R, Jöns N, Linzmeier B et. al.

Sedimentary Geology

2016 vol: 341 pp: 203-215

Altered excitatory-inhibitory balance within somatosensory cortex is associated with enhanced plasticity and pain sensitivity in a mouse model of multiple sclerosis

Potter L, Paylor J, Suh J, Tenorio G, Caliaperumal J et. al.

Journal of Neuroinflammation

2016 vol: 13 (1) pp: 142

B cells are required for sunlight protection of mice from a CNS-targeted autoimmune attack

Kok L, Marsh-Wakefield F, Marshall J, Gillis C, Halliday G et. al.

Journal of Autoimmunity

2016

High fat diet promotes prostatic basal-to-luminal differentiation and accelerates initiation of prostate epithelial hyperplasia originated from basal cells

Kwon O, Zhang B, Zhang L, Xin L

Stem Cell Research

2016 vol: 16 (3) pp: 682-691

Invention of a novel photodynamic therapy for tumors using a photosensitizing PI3K inhibitor

Hayashida Y, Ikeda Y, Sawada K, Kawai K, Kato T et. al.

International Journal of Cancer

2016 vol: 139 (3) pp: 700-711

CD133 does not enrich for the stem cell activity *in vivo* in adult mouse prostates

Wei, Xing; Orjalo, Arturo V.; Xin, Li (2016)

Stem Cell Research

Experimental observation of the asymmetric instability of intermediate-reduced-volume vesicles in extensional flow

Dahl, Joanna B.; Narsimhan, Vivek; Gouveia, Bernardo; Kumar, Sanjay; Shaqfeh, Eric S. G. et al. (2016)
Soft Matter

The consistent difference in red fluorescence in fishes across a 15 m depth gradient is triggered by ambient brightness, not by ambient spectrum

Harant, Ulrike Katharina; Michiels, Nicolaas Karel; Anthes, Nils; Meadows, Melissa Grace (2016)
BMC research notes vol. 9 (1) p. 107

Lamellipodia and Membrane Blebs Drive Efficient Electrotactic Migration of Rat Walker Carcinosarcoma Cells WC 256

Sroka, Jolanta; Krecioch, Izabela; Zimolag, Eliza; Lasota, Slawomir; Rak, Monika et al. (2016)
PLOS ONE vol. 11 (2) p. e0149133

Lack of the H-NS protein results in extended and aberrantly positioned DNA during chromosome replication and segregation in *Escherichia coli*

Helgesen, Emily; Fossum-Raunehaug, Solveig; Skarstad, Kirsten (2016)
J. Bacteriol. p. JB.00919-15-

Taxonomic revision of *Chlamydomonas* subg. *Amphichloris* (Volvocales, Chlorophyceae), with resurrection of the genus *Dangeardinia* and descriptions of *Ixipapillifera* gen. nov. and *Rhysamphichloris* gen. nov.

Nakada, Takashi; Wu, Jiunn-Tzong; Nozaki, Hisayoshi; Tomita, Masaru (2016)
Journal of Phycology

Changes in microbial community during hydrogen and methane production in two-stage thermophilic anaerobic co-digestion process from biowaste

Zahedi, S.; Solera, R.; Micolucci, F.; Cavinato, C.; Bolzonella, D. (2016)
Waste Management vol. 49 p. 40-46

Diagenesis of the palaeo-oil-water transition zone in a Lower Pennsylvanian carbonate reservoir: Constraints from cathodoluminescence microscopy, microthermometry, and isotope geochemistry

Kolchugin, A.N.; Immenhauser, A.; Walter, B.F.; Morozov, V.P. (2016)
Marine and Petroleum Geology vol. 72 p. 45-61

Echinometra sea urchins acclimatised to elevated $p\text{CO}_2$ at volcanic vents outperform those under present-day $p\text{CO}_2$ conditions

Uthicke, S; Ebert, T; Liddy, M; Johansson, C; Fabricius, K E et al. (2016)
Global change biology

Neuroinflammatory $\text{TNF}\alpha$ Impairs Memory via Astrocyte Signaling

Habbas, Samia; Santello, Mirko; Becker, Denise; Stubbe, Hiltrud; Zappia, Giovanna et al. (2015)
Cell vol. 163 (7) p. 1730-1741

Experimental evaluation of calcein and alizarin red S for immersion marking of silver carp *Hypophthalmichthys molitrix* (Valenciennes, 1844)

Lü, H.-J.; Fu, M.; Dai, S.; Xi, D.; Zhang, Z.-X. (2016)
Journal of Applied Ichthyology vol. 32 (1) p. 83-91

Stem Cell Antigen-1 Identifies a Distinct Androgen-Independent Murine Prostatic Luminal Cell Lineage with Bipotent Potential

Kwon, Oh-Joon; Zhang, Li; Xin, Li (2016)
Stem cells vol. 34 (1) p. 191-202

Publications 2015

Frequency-selective control of cortical and subcortical networks by central thalamus

Liu, Jia; Lee, Hyun Joo; Weitz, Andrew J; Fang, Zhongnan; Lin, Peter et al. (2015)
eLife vol. 4 p. e09215

Digital signaling decouples activation probability and population heterogeneity

Kellogg, Ryan A; Tian, Chengzhe; Lipniacki, Tomasz; Quake, Stephen R; Tay, Savaş (2015)
eLife vol. 4 p. e08931

Potential in two types of collagen scaffolds for urological tissue engineering applications - Are there differences in growth behaviour of juvenile and adult vesical cells?

Leonhauser, D; Vogt, M; Tolba, RH; Grosse, JO (2015)
J Biomater Appl p. 0885328215610824-

Feedback Control of Variability in the Cycle Period of a Central Pattern Generator

Hooper, Ryan M.; Tikidji-Hamburyan, Ruben A.; Canavier, Carmen C.; Prinz, Astrid A (2015)
J Neurophysiol p. jn.00365.2015-

MRI compatible optrodes for simultaneous LFP and optogenetic fMRI investigation of seizure-like afterdischarges

Duffy, Ben A.; Choy, ManKin; Chuapoco, Miguel R.; Madsen, Michael; Lee, Jin Hyung (2015)
NeuroImage

Effects of antitumor derivatives of ineffective transplatin on bacterial cells: Is DNA a pharmacological target?

Kasparkova, Jana; Brabec, Viktor (2015)
Journal of Inorganic Biochemistry

Histaminergic H3-Heteroreceptors as a Potential Mediator of Betahistine-Induced Increase in Cochlear Blood Flow

Bertlich, M.; Ihler, F.; Freytag, S.; Weiss, B.G.; Strupp, M. et al. (2015)
Audiology and Neurotology vol. 20 (5) p. 283-293

Comparative analysis of goitrogenic effects of phenylthiourea and methimazole in zebrafish embryos

Fetter, Eva; Baldauf, Lisa; Da Fonte, Dillon F.; Ortmann, Julia; Scholz, Stefan (2015)
Reproductive Toxicology vol. 57 p. 10-20

Growth Cone Localization of the mRNA Encoding the Chromatin Regulator HMGN5 Modulates Neurite Outgrowth

Moretti, Francesca; Rolando, Chiara; Winker, Moritz; Ivanek, Robert; Rodriguez, Javier et al. (2015)
Mol. Cell. Biol. p. MCB.00133-15-

Experimental evaluation of using calcein and alizarin red S for immersion marking of bighead carp *Aristichthys nobilis* (Richardson, 1845) to assess growth and identification of marks in otoliths, scales and fin rays

Lü, H.-J.; Fu, M.; Xi, D.; Yao, W.-Z.; Su, S.-Q. et al. (2015)
Journal of Applied Ichthyology vol. 31 (4) p. 665-674

Decoding a neural circuit controlling global animal state in *C. elegans*

Laurent, Patrick; Soltesz, Zoltan; Nelson, Geoff; Chen, Changchun; Arellano-Carbajal, Fausto et al. (2015)
eLife p. e04241

Successful Combination of Sunitinib and Girentuximab in Two Renal Cell Carcinoma Animal Models: A Rationale for Combination Treatment of Patients with Advanced RCC

Oosterwijk-Wakka, Jeannette C.; de Weijert, Mirjam C.A.; Franssen, Gerben M.; Leenders, William P.J.; van der Laak, Jeroen A.W.M. et al. (2015)
Neoplasia vol. 17 (2) p. 215-224

Characterization of connective tissue progenitors through phase contrast and multicolor fluorescence time-lapse microscopy

Kwee, Edward; Powell, Kimerly; Muschler, George (2015)
SPIE BiOS p. 932800-932800-6

Dynamic *Escherichia coli* SeqA complexes organize the newly replicated DNA at a considerable distance from the replisome

Helgesen, Emily; Fossum-Raunehaug, Solveig; Saetre, Frank; Schink, Kay Oliver; Skarstad, Kirsten (2015)
Nucleic Acids Res. p. gkv146-

Surface modification of polydopamine coated particles via glycopolymer brush synthesis for protein binding and FLIM testing

Le-Masurier, Solomon Pradhan; Duong, Hien Thi Thu; Boyer, Cyrille; Granville, Anthony Michael (2015)
Polym. Chem. vol. 6 (13) p. 2504-2511

***Lhx4* Deficiency: Increased Cyclin-Dependent Kinase Inhibitor Expression and Pituitary Hypoplasia**

Gergics, Peter; Brinkmeier, Michelle L.; Camper, Sally A. (2015)
Molecular Endocrinology

Melanin-concentrating hormone inputs to the nucleus accumbens originate from distinct hypothalamic sources and are apposed to GABAergic and cholinergic cells in the Long-Evans rat brain

Haemmerle, C.A.S.; Campos, A.M.P.; Bittencourt, J.C. (2015)
Neuroscience vol. 289 p. 392-405

Cellular Asymmetric Catalysis by UDP-glucuronosyltransferase 1A8 Shows Functional Localization to the Basolateral Plasma Membrane

Ziegler, Kerstin; Tumova, Sarka; Kerimi, Asimina; Williamson, Gary (2015)
J. Biol. Chem. p. M114.634428-

Hemodynamic flow visualization of early embryonic great vessels using μ PIV

Selda Goktas, Chia-Yuan Chen, William J Kowalski, Kerem Pekkan (2015)
Methods in molecular biology 1189 p. 17-30

Publications 2014

Identification of a Proximal Progenitor Population from Murine Fetal Lungs with Clonogenic and Multilineage Differentiation Potential

Bilodeau M Shojaie S Ackerley C Post M Rossant J (2014)
Stem Cell Reports vol: 3 (4) pp: 634-64

Fabricating Shaped Microfibers with Inertial Microfluidics

Nunes J Wu C Amini H Owsley K Di Carlo D Stone H (2014)
Advanced Materials vol: 26 (22) pp: 3712-3717

Migration of finite sized particles in a laminar square channel flow from low to high Reynolds numbers

Abbas, M.; Magaud, P.; Gao, Y.; Geoffroy, S. (2014)
Physics of Fluids (1994-present) vol. 26 (12) p. 123301

UV-induced Spectral Shift and Protonation of DNA Fluorescent Dye Hoechst 33258

Dominika Zurek-Biesiada, Piotr Waligórski, Jurek W Dobrucki (2014)
Journal of fluorescence 24 (6) p. 1791-801

Measuring bacterial adaptation dynamics at the single-cell level using a microfluidic chemostat and time-lapse fluorescence microscopy

Zhicheng Long, Anne Olliver, Elisa Brambilla, Bianca Sclavi, Marco Cosentino Lagomarsino, Kevin D Dorfman (2014)
The Analyst 139 (20) p. 5254-62

Optogenetic fMRI reveals distinct, frequency-dependent networks recruited by dorsal and intermediate hippocampus stimulations

Andrew J. Weitz, Zhongnan Fang, Hyun Joo Lee, Robert S. Fisher, Wesley C. Smith, ManKin Choy, Jia Liu, Peter Lin, Matthew Rosenberg, Jin Hyung Lee (2014) NeuroImage

Analysis of Operating Conditions Influencing the Morphology and In vitro Behaviour of Chitosan Coated Liposomes

Marco Venturini (2014)
Journal of Nanomedicine & Nanotechnology 05 (04)

Validation of a field based chromatin dispersion assay to assess sperm DNA fragmentation in the bottlenose dolphin (*Tursiops truncatus*)

M-J Sánchez-Calabuig, C López-Fernández, E Martínez-Nevado, J F Pérez-Gutiérrez, J de la Fuente, S D Johnston, D Blyde, K Harrison, J Gosálvez (2014)
Reproduction in domestic animals = Zuchthygiene 49 (5) p. 761-8

Unclonable security features for additive manufacturing

O. Ivanova, A. Elliott, T. Campbell, C.B. Williams (2014)
Additive Manufacturing

Tea4-phosphatase I landmark promotes local growth by dual Cdc42 GEF recruitment and GAP exclusion

Kyriakos Kokkoris, Daniela Gallo Castro, Sophie G Martin (2014)
Journal of cell science p. jcs.142174-

***Mycobacterium abscessus* cording prevents phagocytosis and promotes abscess formation**

Audrey Bernut, Jean-Louis Herrmann, Karima Kissa, Jean-François Dubremetz, Jean-Louis Gaillard, Georges Lutfalla, Laurent Kremer (2014)
PNAS p. 1321390111-

Development of an automated fluorescence microscopy system for photomanipulation of genetically encoded photoactivatable proteins (optogenetics) in live cells

Nobukazu Araki, Yuka Ikeda, Takuma Kato, Katsuhisa Kawai, Youhei Egami, Katsuya Miyake, Nobuhide Tsurumaki, Mitsunari Yamaguchi (2014)
Microscopy p. dfu003-

1 α ,25-Dihydroxyvitamin D₃ inhibits the human H295R cell proliferation by cell cycle arrest: A model for a protective role of vitamin D receptor against adrenocortical cancer

Catia Pilon, Riccardo Urbanet, Tracy A. Williams, Takashi Maekawa, Silvia Vettore, Rosa Sirianni, Vincenzo Pezzi, Paolo Mulatero, Ambrogio Fassina, Hironobu Sasano, Francesco Fallo (2014)
The Journal of Steroid Biochemistry and Molecular Biology 140 p. 26-33

Saliva and light as templates for the green synthesis of silver nanoparticles

Ricardo Almeida de Matos, Lilia Coronato Courrol (2014)
Colloids and Surfaces A: Physicochemical and Engineering Aspects 441 p. 539-543

Publications 2013

Nrf2 regulates the expression of the peptide transporter PEPT1 in the human colon carcinoma cell line Caco-2

Kerstin E. Geillinger, Anna P. Kipp, Kristin Schink, Pia V. Röder, Britta Spanier, Hannelore Daniel (2013)
Biochimica et Biophysica Acta (BBA) - General Subjects

Quantification of platelet-surface interactions in real-time using intracellular calcium signalin.

H M van Zijp, A D Barendrecht, J Riegman, J M H Goudsmits, A M de Jong, H Kress, M W J Prins (2013)
Biomedical microdevices

Prostatic inflammation enhances basal-to-luminal differentiation and accelerates initiation of prostate cancer with a basal cell origin

Oh-Joon Kwon, Li Zhang, Michael M Ittmann, Li Xin (2013)

Proceedings of the National Academy of Sciences of the United States of America p. 1318157111-

Photoinduced Demulsification of Emulsions Using a Photoresponsive Gemini Surfactant

Yutaka Takahashi, Kengo Fukuyasu, Tatsuya Horiuchi, Yukishige Kondo, Pieter Stroeve (2013)
Langmuir : the ACS journal of surfaces and colloids

Left atrial ligation alters intracardiac flow patterns and the biomechanical landscape in the chick embryo

William J. Kowalski, Nikola C. Teslovich, Prahlad G. Menon, Joseph P. Tinney, Bradley B. Keller, Kerem Pekkan (2013)
Developmental Dynamics

Can DNA fragmentation of neat or swim-up spermatozoa be used to predict pregnancy following ICSI of fertile oocyte donors?

Jaime Gosálvez, Pedro Caballero, Carmen López-Fernández, Leonor Ortega, José Andrés Guijarro, José Luís Fernández, Stephen D Johnston, Rocío Nuñez-Calonge (2013)
Asian journal of andrology

MECHANISMS CONTRIBUTING TO CLUSTER FORMATION IN THE INFERIOR OLIVARY NUCLEUS IN BRAINSTEM SLICES FROM POSTNATAL MICE

Mathias Kølvrå, Felix C Müller, Henrik Jahnsen, Jens C Reikling (2013)
The Journal of physiology p. jphysiol.2013.260067-

Application of imaging technique for characterization of ionotropic glutamate receptor ligands in cultured neurons

A. V. Berezhnov, A. V. Kononov, E. I. Fedotova, V. P. Zinchenko (2013)
Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology 7 (3) p. 213-221

γ -H2AX detection in peripheral blood lymphocytes, splenocytes, bone marrow, xenografts, and skin

Christophe E Redon, Asako J Nakamura, Olivier Sordet, Jennifer S Dickey, Ksenia Gouliaeva, Brian Tabb, Scott Lawrence, Robert J Kinders, William M Bonner, Olga A Sedelnikova (2011)
Methods in molecular biology 682 p. 249-70

Transformation of *Aspergillus niger* var *niger* and *Aspergillus carbonarius* using yellow (eYFP) and red (mRFP1) fluorescent proteins.

Edwin Rene Palencia, Anthony Elbie Glenn, Dorothy Mae Hinton, Charles Wilson Bacon (2013)
Journal of microbiological methods

Study of cellular dynamics on polarized CoCrMo alloy using time-lapse live-cell imaging

Morteza Haeri, Jeremy L Gilbert (2013)

Acta biomaterialia

The *Aspergillus nidulans* Peripheral ER: Disorganization by ER Stress and Persistence during Mitosis

Ane Markina-Iñarrairaegui, Areti Pantazopoulou, Eduardo A. Espeso, Miguel A. Peñalva (2013)

PLoS ONE 8 (6) p. e67154

Characterisation of a subpopulation of sperm with massive nuclear damage, as recognised with the sperm chromatin dispersion test

J Gosálvez, M Rodríguez-Predreira, A Mosquera, C López-Fernández, S C Esteves, A Agarwal, J L Fernández (2013)

Andrologia

Inkjet Printing of Quantum Dots in Photopolymer for Use in Additive Manufacturing of Nanocomposites

Amelia M. Elliott, Olga S. Ivanova, Christopher B. Williams, Thomas A. Campbell (2013)

Advanced Engineering Materials

Decoupling $\delta^{13}\text{C}$ response to palaeoflora cycles and climatic variation in coal; a case study from the Late Permian Bowen Basin, Queensland, Australia

Nikola Van de Wetering, Joan Esterle, Kim Baublys (2013)

Palaeogeography, Palaeoclimatology, Palaeoecology

Transgenic (*cyp19a1b*-GFP) zebrafish embryos as a tool for assessing combined effects of oestrogenic chemicals

Karina Petersen, Eva Fetter, Olivier Kah, François Brion, Stefan Scholz, Knut Erik Tollefsen (2013)

Aquatic Toxicology

Live-cell imaging of *Aspergillus nidulans* autophagy: RAB1 dependence, Golgi independence and ER involvement

Mario Pinar, Areti Pantazopoulou, Miguel A. Peñalva (2013)

Autophagy 9 (7) p. 23-22

Design and implementation of injector/distributor structures for microfabricated non-porous pillar columns for capillary electrochromatography

Sertan Sukas, Gert Desmet, Han J.G.E. Gardeniers (2013)

Journal of Chromatography A

PINCH in the Cellular Stress Response to Tau-Hyperphosphorylation

Ahmet Yunus Ozdemir, Inna Rom, Jane Kovalevich, William Yen, Radhika Adiga, Rajnish S. Dave,

Dianne Langford (2013)
PLoS ONE 8 (3) p. e58232

Phasic-like stimulation of the medial forebrain bundle augments striatal gene expression despite methamphetamine-induced partial dopamine denervation

Christopher D Howard, Elissa D Pastuzyn, Melissa L Barker-Haliski, Paul A Garriss, Kristen A Keefe (2013)
Journal of neurochemistry

UV-activated conversion of Hoechst 33258, DAPI, and Vybrant DyeCycle fluorescent dyes into blue-excited, green-emitting protonated forms

Dominika Zurek-Biesiada, Sylwia Kedracka-Krok, Jurek W Dobrucki (2013)
Cytometry

Publications 2012

Microfluidic chemostat for measuring single cell dynamics in bacteria

Zhicheng Long, Eileen Nugent, Avelino Javier, Pietro Cicuta, Bianca Sclavi, Marco Cosentino Lagomarsino, Kevin Dorfman (2012)
Lab on a Chip

Self-organising Neuroepithelium from Human Pluripotent Stem Cells Facilitates Derivation of Photoreceptors

Cédric Boucherie, Sayandip Mukherjee, Els Henckaerts, Adrian J Thrasher, Jane C Sowden, Robin R Ali (2012)
Stem cells (Dayton, Ohio)

Notch and TGF β Form a Reciprocal Positive Regulatory Loop that Suppresses Murine Prostate Basal Stem/Progenitor Cell Activity

Joseph M. Valdez, Li Zhang, Qingtai Su, Olga Dakhova, Yiqun Zhang, Payam Shahi, David M. Spencer, Chad J. Creighton, Michael M. Ittmann, Li Xin (2012)
Cell Stem Cell 11 (5) p. 676-688

Performance Evaluation of Different Design Alternatives for Microfabricated Nonporous Fused Silica Pillar Columns for Capillary Electrochromatography

Sertan Sukas, Wim De Malsche, Gert Desmet, Han J G E Gardeniers (2012)
Analytical chemistry

Alveolocapillary model system to study alveolar re-epithelialization

Coen H.M.P. Willems, Luc J.I. Zimmermann, Patricia J.L.T. Sanders, Margot Wagendorp, Nico Kloosterboer, Jan Willem Cohen Tervaert, Hans J.Q. Duimel, Fons K.C.P. Verheyen, J.Freek van

Iwaarden (2012)
Experimental Cell Research

A Substrate Binding Hinge Domain is Critical for Transport-Related Structural Changes of Organic Cation Transporter 1

Brigitte Egenberger, Valentin Gorboulev, Thorsten Keller, Dmitry Gorbunov, Neha Gottlieb, Dietmar Geiger, Thomas D Mueller, Hermann Koepsell (2012)
The Journal of biological chemistry p. M112.388793-

Targeting of ICAM-1 on vascular endothelium under static and shear stress conditions using a liposomal Gd-based MRI contrast agent.

Leonie E Paulis, Igor Jacobs, Nynke van de Akker, Tessa Geelen, Daniel Molin, Lucas W Starmans, Klaas Nicolay, Gustav J Strijkers (2012)
Journal of nanobiotechnology 10 (1) p. 25

Comparison of sensing strategies in SPR biosensor for rapid and sensitive enumeration of bacteria

Ozlem Torun, Ismail Hakki Boyaci, Erhan Temür, Ugur Tamer (2012)
Biosensors & bioelectronics

Mechanism of inhibition of the prothrombinase complex by a covalent antithrombin-heparin complex

Ivan Stevic, Leslie R Berry, Anthony K C Chan (2012)
Journal of biochemistry p. mvs039-

Adult Murine Prostate Basal and Luminal Cells Are Self-Sustained Lineages that Can Both Serve as Targets for Prostate Cancer Initiation

Nahyun Choi, Boyu Zhang, Li Zhang, Michael Ittmann, Li Xin (2012)
Cancer cell 21(2) p. 253-65

Publications 2011

Dynamics of CENP-N kinetochore binding during the cell cycle.

Daniela Hellwig, Stephan Emmerth, Tobias Ulbricht, Volker Döring, Christian Hoischen, Ronny Martin, Catarina P Samora, Andrew D McAinsh, Christopher W Carroll, Aaron F Straight, Patrick Meraldi, Stephan Diekmann (2011)
Journal of cell science p. jcs.088625-

New application of the comet assay: chromosome--comet assay.

Elva I Cortés-Gutiérrez, Martha I Dávila-Rodríguez, José Luís Fernández, Carmen López-Fernández, Altea Gosálbez, Jaime Gosálvez (2011)

The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society
59 (7) p. 655-60

Dynamics of sperm DNA damage in fresh versus frozen-thawed and gradient processed ejaculates in human donors.

J Gosálvez, R Núñez, J L Fernández, C López-Fernández, P Caballero (2011)
Andrologia 43 (6) p. 373-7

Fabrication of a gel particle array in a microfluidic device for bioassays of protein and glucose in human urine samples

Ling Lin, Zhaoxin Gao, Huibin Wei, Haifang Li, Feng Wang, Jin-Ming Lin (2011)
Biomicrofluidics 5 (3) p. 034112

δ -Aminolevulinic acid and its methyl ester induce the formation of Protoporphyrin IX in cultured sensory neurones.

B Novak, R Schulten, H Lübbert (2011)
Naunyn-Schmiedeberg's archives of pharmacology p. 1-20

Mechanisms of apoptosis on human lens epithelium after ultraviolet light exposure.

Seong-Taeck Kim, Jae-Woong Koh (2011)
Korean journal of ophthalmology : KJO 25 (3) p. 196-201

Separation of mixtures of particles in a multipart microdevice employing insulator-based dielectrophoresis.

Roberto C Gallo-Villanueva, Victor H Pérez-González, Rafael V Davalos, Blanca H Lapizco-Encinas (2011)
Electrophoresis 32 (18) p. 2456-65

Population calcium imaging of spontaneous respiratory and novel motor activity in the facial nucleus and ventral brainstem in newborn mice.

Karin Persson, Jens C Reklung (2011)
The Journal of physiology 589 (Pt 10) p. 2543-58

The ability of sperm selection techniques to remove single- or double-strand DNA damage.

María Enciso, Miriam Iglesias, Isabel Galán, Jonás Sarasa, Antonio Gosálvez, Jaime Gosálvez (2011)
Asian journal of andrology 13 (5) p. 764-768

Bacteria in bovine semen can increase sperm DNA fragmentation rates: a kinetic experimental approach.

C González-Marín, R Roy, C López-Fernández, B Díez, M J Carabaño, J L Fernández, M E Kjelland,

J F Moreno, J Gosálvez (2011)
Animal reproduction science 123 (3-4) p. 139-48

β 1 Integrin mediates an alternative survival pathway in breast cancer cells resistant to lapatinib.

Catherine Huang, Catherine C Park, Susan G Hilsenbeck, Robin Ward, Mothaffar Rimawi, Yen-Chao Wang, Jiang Shou, Mina J Bissell, C Kent Osborne, Rachel Schiff (2011)
Breast cancer research : BCR 13 (4) p. R84

Multiple Phenotypes Resulting from a Mutagenesis Screen for Pharynx Muscle Mutations in *Caenorhabditis elegans*

Andrew Ferrier, Alexandra Charron, Yama Sadozai, Lynn Switaj, Anneliese Szutenbach, Pliny A. Smith (2011)
PLoS ONE 6 (11) p. e26594

Calpain-mediated cleavage of Beclin-1 and autophagy deregulation following retinal ischemic injury *in vivo*.

R Russo, L Berliocchi, A Adornetto, G P Varano, F Cavaliere, C Nucci, D Rotiroti, L A Morrone, G Bagetta, M T Corasaniti (2011)
Cell death & disease 2 p. e144

Publications 2010

Amyloid-beta-derived diffusible ligands cause impaired axonal transport of mitochondria in neurons.

Xinglong Wang, George Perry, Mark A Smith, Xiongwei Zhu (2010)
Neuro-degenerative diseases 7 (1-3) p. 56-9

Phylogenetic position of a rare loricated green alga, *Cephalomonas granulata* N. L. Higinb. (Volvocales, Chlorophyceae)

Takashi Nakada, Tomoyoshi Soga, Masaru Tomita (2010)
Phycological Research 58 (1) p. 62-68

DevT (Alr4674), resembling a Ser/Thr protein phosphatase, is essential for heterocyst function in the cyanobacterium *Anabaena* sp. PCC 7120.

Javier Espinosa, Thomas Brunner, Nicole Fiedler, Karl Forchhammer, Alicia M Muro-Pastor, Iris Maldener (2010)
Microbiology (Reading, England) 156 (Pt 12) p. 3544-55

<link jeb.biologists.org/cgi/content/abstract/213/21/3723>Putative pacemakers of cray



Leica Microsystems GmbH | Ernst-Leitz-Strasse 17–37 | D-35578 Wetzlar (Germany)
Tel. +49 (0) 6441 29-40 00 | F +49 (0) 6441 29-41 55

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