

4. Fluorescence Applications

Alldred MJ, Penikalapati SC, Lee SH, Heguy A, Roussos P, Ginsberg S:
Proling Basal Forebrain Cholinergic Neurons Reveals a Molecular Basis for Vulnerability Within the Ts65Dn Model of Down Syndrome and Alzheimer's Disease
Research Square, BMC Molecular Neurodegeneration, 9 Oct 2020
<https://www.researchsquare.com/article/rs-88218/v1>

Alonso C, Musat N, Adam B, Kuypers M, Amann R
HISH-SIMS analysis of bacterial uptake of algal-derived carbon in the Río de la Plata estuary
Syst Appl Microbiol. 2012 Sep 28. pii: S0723-2020(12)00109-9. doi: 10.1016/j.syapm.2012.08.004.
<http://www.sciencedirect.com/science/article/pii/S0723202012001099>

André EM, Daviaud N, Sindji L, Cayon J, Perrot R, Montero-Menei CN:
A novel ex vivo Huntington's disease model for studying GABAergic neurons and cell grafts by laser microdissection
PLoS One. 2018 Mar 5;13(3):e0193409. doi: 10.1371/journal.pone.0193409. eCollection 2018.
<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0193409>

Ayoub AE, Dominguez MH, Benoit J, Ortega JA, Radonjic N, Zecevic N, Rakic P:
Coordination of Neuron Production in Mouse and Human Cerebral Cortex by the Homolog of Drosophila Mastermind Protein
Brain Behav Evol. 2019 Aug 15;93(2-3):152-165. doi: 10.1159/000500494.
<https://www.karger.com/Article/PDF/500494>

Bandyopadhyay U, Cotney J, Nagy M, Oh S, Leng J, Mahajan M, Mane S, Fenton WA, Noonan JP, Horwich AL:
RNA-Seq Profiling of Spinal Cord Motor Neurons from a Presymptomatic SOD1 ALS Mouse
PLoS ONE 8(1): e53575. doi:10.1371/journal.pone.0053575
<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0053575>

Barwinska D, El-Achkar TM, Ferreira RM, Syed F, Cheng YH, Winfree S, Ferkowicz MJ, Hato T, Collins KS, Dunn KW, Kelly KJ, Sutton TA, Rovin BH, Parikh SV, Phillips CL, Dagher PC, Eadon MT; Kidney Precision Medicine Project:
Molecular characterization of the human kidney interstitium in health and disease.
Sci Adv. 2021 Feb 10;7(7):eabd3359. doi: 10.1126/sciadv.abd3359. P
<https://advances.sciencemag.org/content/advances/7/7/eabd3359.full.pdf>

Barwinska D, Ferkowicz MJ, Cheng YH, Winfree S, Dunn KW, Kelly KJ, Sutton TA, Rovin BH, Parikh SV, Phillips CL, Dagher PC, El-Achkar TM, Eadon MT; Kidney Precision Medicine Project:
Application of Laser Microdissection to Uncover Regional Transcriptomics in Human Kidney Tissue
J Vis Exp. 2020 Jun 9;(160). doi: 10.3791/61371.
<https://www.jove.com/t/61371/application-laser-microdissection-to-uncover-regional-transcriptomics>

Bender A, Desplats P, Spencer B, Rockenstein E, Adame A, Elstner M, Laub C, Mueller S, Koob AO, Mante M, Pham E, Klopstock T, Masliah E:
TOM40 mediates mitochondrial dysfunction induced by α -synuclein accumulation in Parkinson's disease
PLoS One. 2013 Apr 23;8(4):e62277.
<http://dx.plos.org/10.1371/journal.pone.0062277>

Benkert J, Hess S, Roy S, Beccano-Kelly D, Wiederspohn N, Duda J, Simons C, Patil K, Gaifullina A, Mannal N, Dragicevic E, Spaich D, Müller S, Nemeth J, Hollmann H, Deuter N, Mousba Y, Kubisch C, Poetschke C, Striessnig J, Pongs O, Schneider T, Wade-Martins R, Patel S, Parlato R, Frank T, Kloppenburg P & Liss B:

Cav2.3 channels contribute to dopaminergic neuron loss in a model of Parkinson's disease

Nat Commun 10, 5094 (8 Nov 2019) doi:10.1038/s41467-019-12834-x

<https://www.nature.com/articles/s41467-019-12834-x>

Bergsbaken T1, Bevan MJ2, Fink PJ:

Local Inflammatory Cues Regulate Differentiation and Persistence of CD8+ Tissue-Resident Memory T Cells

Cell Rep. 2017 Apr 4;19(1):114-124. doi: 10.1016/j.celrep.2017.03.031.

[https://linkinghub.elsevier.com/retrieve/pii/S2211-1247\(17\)30363-7](https://linkinghub.elsevier.com/retrieve/pii/S2211-1247(17)30363-7)

Blackmore MG, Wang Z, Lerch JK, Motti D, Zhang YP, Shields CB, Lee JK, Goldberg JL, Lemmon VP, Bixby JL:

Kruppel-like Factor 7 engineered for transcriptional activation promotes axon regeneration in the adult corticospinal tract

Proc Natl Acad Sci U S A. 2012 Apr 23. [Epub ahead of print]

<http://www.pnas.org/cgi/pmidlookup?view=long&pmid=22529377>

Bondoc A, Golbar HM, Pervin M, Katou-Ichikawa C, Tanaka M, Izawa T, Kuwamura M, Yamate J:

Participation of Tumor-Associated Myeloid Cells in Progression of Amelanotic Melanoma (RMM Tumor Line) in F344 Rats, with Particular Reference to MHC Class II- and CD163-Expressing Cells

Cancer Microenviron. 2017 Jun 16. doi: 10.1007/s12307-017-0193-x.

<https://dx.doi.org/10.1007/s12307-017-0193-x>

Brilli E, Reitano E, Conti L, Conforti P, Gulino R, Consalez GG, Cesana E, Smith A, Rossi F, Cattaneo E:

Neural stem cells engrafted in the adult brain fuse with endogenous neurons

Stem Cells Dev. 2013 Feb 15;22(4):538-47. doi: 10.1089/scd.2012.0530.

<http://dx.doi.org/10.1089/scd.2012.0530>

Burbach, G.J., Dehn, D., Del Turco, D., Staufenbiel, M., and Deller, T.:

Laser microdissection reveals regional and cellular differences in GFAP mRNA upregulation following brain injury, axonal denervation, and amyloid plaque deposition

Glia 48(1): 76-84 (2004)

<http://onlinelibrary.wiley.com/doi/10.1002/glia.20057/full>

Burbach, G.J., Dehn, D., Nagel, B., Del Turco, D., and Deller, T.:

Laser microdissection of immunolabeled astrocytes allows quantification of astrocytic gene expression

J Neurosci Methods 138(1-2): 141-148 (2004)

<http://dx.doi.org/10.1016/j.jneumeth.2004.03.022>

Cao J, Ni J, Ma W, Shiu V, Milla LA, Park S, Spletter ML, Tang S, Zhang J, Wei X, Kim SK, Scott MP:
Insight into Insulin Secretion from Transcriptome and Genetic Analysis of Insulin-Producing Cells of Drosophila

Genetics. 2014 Feb 20.

<http://www.genetics.org/content/early/2014/02/18/genetics.113.160663.full.pdf+html>

Carrillo MAL:

Endothelial Cell Heterogeneity: A Correlation With The Von Willebrand Factor Expression In Distinct Organs

Thesis, 2017

https://era.library.ualberta.ca/files/cbn9996983/LorenzanaCarrillo_Maria_A_201612_MSc.pdf

Castelli MP, Spiga S, Perra A, Madeddu C, Mulas G, Ennas MG, Gessa GL:

α 2A adrenergic receptors highly expressed in mesoprefrontal dopamine neurons

Neuroscience. 2016 Jun 27. pii: S0306-4522(16)30276-7. doi: 10.1016/j.neuroscience.2016.06.037.

[http://linkinghub.elsevier.com/retrieve/pii/S0306-4522\(16\)30276-7](http://linkinghub.elsevier.com/retrieve/pii/S0306-4522(16)30276-7)

Chapman JR, Liu A, Yi SS, Hernandez E, Ritorto MS, Jungbluth AA, Pulitzer M, Dogan A:

Proteomic analysis shows that the main constituent of subepidermal localised cutaneous amyloidosis is not galectin-7

Amyloid. 2020 Sep 1;1-7. doi:10.1080/13506129.2020.1811962

<https://www.tandfonline.com/doi/abs/10.1080/13506129.2020.1811962>

Chatzi C, Zhang G, Hendricks W, Chen Y, Schnell E, Goodman RH, Westbrook GL:

Exercise-induced enhancement of synaptic function triggered by the inverse BAR protein, Mtss1L

bioRxiv, Feb. 9, 2019, <http://dx.doi.org/10.1101/545582>doi:

<https://www.biorxiv.org/content/biorxiv/early/2019/02/09/545582.full.pdf>

Chen LL, Chu SS, Zhang L, Xie J, Dai M, Wu X, Peng HS:

Tissue-Specific Metabolite Profiling on the Different Parts of Bolting and Unbolting Peucedanum praeruptorum Dunn (Qianhu) by Laser Microdissection Combined with UPLC-Q/TOF-MS and HPLC-DAD

Molecules. 2019 Apr 11;24(7). pii: E1439. doi: 10.3390/molecules24071439.

<http://www.mdpi.com/resolver?pii=molecules24071439>

Chen QL, Chen YJ, Zhou SS, Yip KM, Xu J, Chen HB, Zhao ZZ:

Laser microdissection hyphenated with high performance gel permeation chromatography-charged aerosol detector and ultra performance liquid chromatography-triple quadrupole mass spectrometry for histochemical analysis of polysaccharides in herbal medicine: Ginseng, a case study

Int J Biol Macromol. 2017 Aug 31. pii: S0141-8130(17)32336-X. doi: 10.1016/j.ijbiomac.2017.08.162.

[https://linkinghub.elsevier.com/retrieve/pii/S0141-8130\(17\)32336-X](https://linkinghub.elsevier.com/retrieve/pii/S0141-8130(17)32336-X)

Chen L, Zhou T, Wu N, O'Brien A, Venter J, Ceci L, Kyritsi K, Onori P, Gaudio E, Sybenga A, Xie L, Wu C, Fabris L, Invernizzi P, Zawieja D, Liangpunsakul S, Meng F, Francis H, Glaser S :

Pinealectomy or light exposure exacerbates biliary damage and liver fibrosis in cholestatic rats through decreased melatonin synthesis

Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease, 16 Mar 2019,

<https://doi.org/10.1016/j.bbadis.2019.03.002>

<https://www.sciencedirect.com/science/article/abs/pii/S0925443919300766#!>

Chen Y, Xu L, Zhao Y, Zhao Z, Chen H, Yi T, Qin M, Liang Z:

Tissue-specific metabolite profiling and quantitative analysis of ginsenosides in Panax quinquefolium using laser microdissection and liquid chromatography-quadrupole/time of flight-mass spectrometry

Chem Cent J. 2015; 9: 66. 2015 Dec 9. doi: 10.1186/s13065-015-0141-0

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4673779/>

Colombat M, Barres B, Renaud C, Ribes D, Pericard S, Camus M, Anesia R, van Acker N, Chauveau D, Burlet-Schiltz O, Brousset P, Valleix S:

Mass spectrometry-based proteomic analysis of parathyroid adenomas reveals PTH as a new human hormone-derived amyloid fibril protein

Amyloid. 2021 Feb 13:1-5. doi: 10.1080/13506129.2021.1885023.

<https://www.tandfonline.com/doi/abs/10.1080/13506129.2021.1885023>

Dasari S, Theis JD, Vrana JA, Zenka RM, Zimmermann MT, Kocher JP, Highsmith Jr WE, Kurtin PJ, Dogan A:

Clinical proteome informatics workbench detects pathogenic mutations in hereditary amyloidoses
J Proteome Res. 2014 Mar 20.

<http://dx.doi.org/10.1021/pr4011475>

Di Niro R, Snir O, Kaukinen K, Yaari G, Lundin KE, Gupta NT, Kleinstein SH, Cols M, Cerutti A, Mäki M, Shlomchik MJ, Sollid LM:

Responsive population dynamics and wide seeding into the duodenal lamina propria of transglutaminase-2-specific plasma cells in celiac disease

Mucosal Immunol. 2015 Jul 8. doi: 10.1038/mi.2015.57.

<http://www.nature.com/mi/journal/vaop/ncurrent/pdf/mi201557a.pdf>

Drummond E, Nayak S, Faustin A, Pires G, Hickman RA, Askenazi M, Cohen M, Haldiman T, Kim C, Han X, Shao Y, Safar JG, Ueberheide B, Wisniewski T:

Proteomic differences in amyloid plaques in rapidly progressive and sporadic Alzheimer's disease
Acta Neuropathol. 2017 Mar 4. doi: 10.1007/s00401-017-1691-0.

<https://dx.doi.org/10.1007/s00401-017-1691-0>

Dzhamukova M, Brunner TM, Miotla-Zarebska J, Heinrich F, Brylka L, Mashreghi M-F, Anjali Kusumbe, Kühn R, Schinke T, Vincent TL, and Löhning M:

Mechanical forces switch blood vessel subtypes to arrest adolescent bone growth

Research Square, V1, 12 Jan 2021, DOI: 10.21203/rs.3.rs-120475/v1

<https://www.researchsquare.com/article/rs-120475/v1>

Eadon M, Barwinska D, Cheng Y-H, Ferkowicz MJ, Parikh SV, Rovin BH, Shapiro JP, Dagher PC, El-Achkar TM:

Laser microdissection for regional transcriptomics and proteomics V.2

Protocols.io, 10 Apr 2020, dx.doi.org/10.17504/protocols.io.bew6jfh

<https://www.protocols.io/view/laser-microdissection-for-regional-transcriptomics-bew6jfh>

Elser BA, Kayali K, Dhakal R, O'Hare B, Wang K, Lehmler HJ, Stevens HE:

Combined maternal exposure to cypermethrin and stress affect embryonic brain and placental outcomes in mice

Toxicol Sci. 2020 Mar 19. pii: kfaa040. doi: 10.1093/toxsci/kfaa040.

<https://academic.oup.com/toxsci/article-lookup/doi/10.1093/toxsci/kfaa040>

Fink KL, López-Giráldez F, Kim IJ, Strittmatter SM, Cafferty WB :

Identification of Intrinsic Axon Growth Modulators for Intact CNS Neurons after Injury

Cell Rep. 2017 Mar 14;18(11):2687-2701. doi: 10.1016/j.celrep.2017.02.058.

[https://linkinghub.elsevier.com/retrieve/pii/S2211-1247\(17\)30256-5](https://linkinghub.elsevier.com/retrieve/pii/S2211-1247(17)30256-5)

Fish RJ, Freire C, Di Sanza C, Neerman-Arbez M:

Venous Thrombosis and Thrombocyte Activity in Zebrafish Models of Quantitative and Qualitative Fibrinogen Disorders

Int J Mol Sci. 2021 Jan 11;22(2):E655. doi: 10.3390/ijms22020655.

<https://www.mdpi.com/1422-0067/22/2/655/htm#app1-ijms-22-00655>

Freire C, Fish RJ, Vilar R, Di Sanza C, Grzegorski SJ, Richter CE, Shavit JA, Neerman-Arbez M.

A genetic modifier of venous thrombosis in zebrafish reveals a functional role for fibrinogen A α E in early hemostasis

Blood Adv. 2020 Nov 10;4(21):5480-5491. doi: 10.1182/bloodadvances.2020001472.

<https://ashpublications.org/bloodadvances/article/4/21/5480/474105>

Fu Z, Löfqvist CA, Liegl R, Wang Z, Sun Y, Gong Y, Liu CH, Meng SS, Burnim SB, Arellano I, Chouinard MT, Duran R, Poblete A, Cho SS, Akula JD, Kinter M, Ley D, Pupp IH, Talukdar S, Hellström A, Smith LE:
Photoreceptor glucose metabolism determines normal retinal vascular growth
EMBO Mol Med. 2017 Nov 27. pii: e201707966. doi: 10.15252/emmm.201707966.
<http://embomolmed.embopress.org/cgi/pmidlookup?view=long&pmid=29180355>

García-Berrocoso T, Giralt D, Llombart V, Bustamante A, Penalba A, Flores A, Ribó M, Molina CA, Rosell A, Montaner J:
Chemokines after human ischemic stroke: from neurovascular unit to blood using protein arrays
Translational Proteomics, 2014 12 Mar, <http://dx.doi.org/10.1016/j.trprot.2014.03.001>
<http://www.sciencedirect.com/science/article/pii/S2212963414000035>

García-Berrocoso T, Llombart V, Colàs-Campàs L, Hainard A, Licker V, Penalba A, Ramiro L, Simats A, Bustamante A, Martínez-Saez E, Canals F, Sanchez JC, Montaner J:
Single Cell Immuno-laser Microdissection Coupled to Label-free Proteomics to Reveal the Proteotypes of Human Brain Cells After Ischemia
Mol Cell Proteomics. 2017 Nov 13. pii: mcp.RA117.000419. doi: 10.1074/mcp.RA117.000419.
<http://www.mcponline.org/cgi/pmidlookup?view=long&pmid=29133510>

Grycz K, Głowacka A, Ji B, Czarkowska-Bauch J, Gajewska-Woźniak O, Skup M
Early pre- and postsynaptic decrease in glutamatergic and cholinergic signaling after spinalization is not modified when stimulating proprioceptive input to the ankle extensor α -motoneurons: Anatomical and neurochemical study
PLoS One. 2019 Sep 26;14(9):e0222849. doi: 10.1371/journal.pone.0222849. eCollection 2019.
<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0222849>

Gwee SSL, Radford RAW, Chow S, Syal MD, Morsch M, Formella I, Lee A, Don EK, Badrock AP, Cole NJ, West AK, Cheung SNS, Chung RS:
Aurora kinase B regulates axonal outgrowth and regeneration in the spinal motor neurons of developing zebrafish
Cell Mol Life Sci. 2018 Feb 21. doi: 10.1007/s00018-018-2780-5.
<https://link.springer.com/article/10.1007/s00018-018-2780-5>

Handschick K, Beuerlein K, Jurida L, Bartkuhn M, Müller H, Soelch J, Weber A, Dittrich-Breiholz O, Schneider H, Scharfe M, Jarek M, Stellzig J, Schmitz ML, Kracht M:
Cyclin-Dependent Kinase 6 Is a Chromatin-Bound Cofactor for NF- κ B-Dependent Gene Expression
Mol Cell. 2013 Dec 31. pii: S1097-2765(13)00870-8. doi: 10.1016/j.molcel.2013.12.002.
<https://www.cell.com/molecular-cell/abstract/S1097-2765%2813%2900870-8>

Hoffmann H:
Identifying Regulators of Tumor Vascular Morphology
Thesis, 2016
https://opus.bibliothek.uni-wuerzburg.de/opus4-wuerzburg/frontdoor/deliver/index/docId/14234/file/Hoffmann_Helene_Morphology.pdf

Hou S, Zhao L, Shen Q, Yu J, Ng C, Kong X, Wu D, Song M, Shi X, Xu X, OuYang WH, He R, Zhao XZ, Lee T, Brunnicardi FC, Garcia MA, Ribas A, Lo RS, Tseng HR:
Polymer nanofiber-embedded microchips for detection, isolation, and molecular analysis of single circulating melanoma cells
Angew Chem Int Ed Engl. 2013 Mar 18;52(12):3379-83. doi: 10.1002/anie.201208452. Epub 2013 Feb 21.
<http://dx.doi.org/10.1002/anie.201208452>

Huang J, Liu Y, Oltean A, Beebe DC:
Bmp4 from the optic vesicle specifies murine retina formation

Dev Biol. 2015 Mar 16. pii: S0012-1606(15)00114-1. doi: 10.1016/j.ydbio.2015.03.006.
[http://linkinghub.elsevier.com/retrieve/pii/S0012-1606\(15\)00114-1](http://linkinghub.elsevier.com/retrieve/pii/S0012-1606(15)00114-1)

Hurley JH, Kunkler PE, Zhang L, Knopp KL, Oxford GS:
Role of Intraganglionic Transmission in the Trigeminovascular Pathway
Mol Pain. 2019 Feb 20:1744806919836570. doi: 10.1177/1744806919836570.
http://journals.sagepub.com/doi/full/10.1177/1744806919836570?url_ver=Z39.88-2003&rfr_id=ori:rid:crossref.org&rfr_dat=cr_pub%3dpubmed

Jaiswal YS, Liang Z, Guo P, Ho HM, Chen HB, Zhao Z:
Tissue-specific Metabolite Profiling of *Cyperus rotundus* L. Rhizomes and (+)-Nootkatone Quantitation by Using Laser Micro Dissection, UHPLC-QTOF MS and GC-MS Techniques
J Agric Food Chem. 2014 Jun 17.
<http://pubs.acs.org/doi/abs/10.1021/jf502494z?journalCode=jafcau>

Jaiswal Y, Liang Z, Ho A, Chen H, Williams L, Zhao Z:
Tissue based metabolite profiling and qualitative comparison of two species of *Achyranthes* roots by use of UHPLC-QTOF MS and laser micro dissection
Journal of Pharmaceutical Analysis, 16 June 2017
<http://www.sciencedirect.com/science/article/pii/S2095177917300709>

Jaiswal Y, Liang Z, Ho A, Chen H, Zhao Z:
A Comparative Tissue-specific Metabolite Analysis and Determination of Protodioscin Content in *Asparagus* Species used in Traditional Chinese Medicine and Ayurveda by use of Laser Microdissection, UHPLC-QTOF/MS and LC-MS/MS
Phytochem Anal. 2014 Apr 16. doi: 10.1002/pca.2522.
<http://dx.doi.org/10.1002/pca.2522>

Jensen E:
Laser-Capture Microdissection
The Anatomical Record (Anat. Rec.), 2013, 1932-8494, 10.1002/ar.22791
<http://dx.doi.org/10.1002/ar.22791>

Kadkhodaei B, Alvarsson A, Schintu N, Ramsköld D, Volakakis N, Joodmardi E, Yoshitake T, Kehr J, Decressac M, Björklund A, Sandberg R, Svenningsson P, Perlmann T :
Transcription factor *Nurr1* maintains fiber integrity and nuclear-encoded mitochondrial gene expression in dopamine neurons
Proc Natl Acad Sci U S A. 2013 Jan 22.
<http://www.pnas.org/cgi/pmidlookup?view=long&pmid=23341612>

Kassis H, Shehadah A, Li C, Zhang Y, Cui Y, Roberts C, Sadry N, Liu X, Chopp M, Zhang ZG :
Class IIa histone deacetylases affect neuronal remodeling and functional outcome after stroke
Neurochem Int. 2016 Apr 18. pii: S0197-0186(16)30056-0. doi: 10.1016/j.neuint.2016.04.006.
[http://linkinghub.elsevier.com/retrieve/pii/S0197-0186\(16\)30056-0](http://linkinghub.elsevier.com/retrieve/pii/S0197-0186(16)30056-0)

Kempfer R:
Chromatin folding in health and disease: exploring allele-specific topologies and the reorganization due to the 16p11.2 deletion in autism-spectrum disorder
Thesis, 2020 Oct 7
<https://edoc.hu-berlin.de/handle/18452/22777>

Khodosevich, K., Inta, D., Seeburg, P.H., and Monyer, H.:
Gene expression analysis of in vivo fluorescent cells
PLoS ONE 2(11): e1151 (2007)
<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0001151>

Khodosevich K, Alfonso J, Monyer H:

Dynamic changes in the transcriptional profile of subventricular zone-derived postnatally born neuroblasts

Mech Dev. 2012 Dec 4. pii: S0925-4773(12)00114-1. doi: 10.1016/j.mod.2012.11.003.

<http://www.sciencedirect.com/science/article/pii/S0925477312001141>

Kley RA, Maerkens A, Leber Y, Theiss V, Schreiner A, van der Ven PF, Uszkoreit J, Stephan C, Eulitz S, Euler N, Kirschner J, Mueller K, Meyer HE, Tegenthoff M, Fuerst DO, Vorgerd M, Mueller T, Marcus K:

A combined laser microdissection and mass spectrometry approach reveals new disease relevant proteins accumulating in aggregates of filaminopathy patients

Mol Cell Proteomics. 2012 Oct 31.

<http://www.mcponline.org/content/early/2012/10/31/mcp.M112.023176.abstract>

Körber C, Dondzillo A, Eisenhardt G, Herrmannsdörfer F, Wafzig O, Kuner T:

Gene expression profile during functional maturation of a central mammalian synapse

Eur J Neurosci. 2014 Jul 3. doi: 10.1111/ejn.12661.

<http://dx.doi.org/10.1111/ejn.12661>

Kohama Y, Higo S, Masumura Y, Shiba M, Kondo T, Ishizu T, Higo T, Nakamura S, Kameda S, Tabata T, Inoue H, Motooka D, Okuzaki D, Takashima S, Miyagawa S, Sawa Y, Hikoso S, Sakata Y

Adeno-associated virus-mediated gene delivery promotes S-phase entry-independent precise targeted integration in cardiomyocytes

Sci Rep. 2020 Sep 18;10(1):15348. doi: 10.1038/s41598-020-72216-y.

<https://www.nature.com/articles/s41598-020-72216-y>

Kosloski LM, Kosmacek EA, Olson KE, Mosley RL, and Gendelman HE:

GM-CSF induces neuroprotective and anti-inflammatory responses in 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine intoxicated mice

Journal of Neuroimmunology, 29 Oct 2013, ISSN 0165-5728

<http://dx.doi.org/10.1016/j.jneuroim.2013.10.009>

Krabbe S, Duda J, Schiemann J, Poetschke C, Schneider G, Kandel ER, Liss B, Roeper J, Simpson EH:
Increased dopamine D2 receptor activity in the striatum alters the firing pattern of dopamine neurons in the ventral tegmental area

Proc Natl Acad Sci U S A. 2015 Feb 9. pii: 201500450.

<http://www.pnas.org/cgi/lookup?view=long&pmid=25675529>

Kruse LC, Walter NA, Buck KJ:

Mpdz Expression In The Caudolateral Substantia Nigra Pars Reticulata Is Crucially Involved In Alcohol Withdrawal

Genes Brain Behav. 2014 Aug 11. doi: 10.1111/gbb.12171.

<http://dx.doi.org/10.1111/gbb.12171>

Latchoumane CV, Betancur MI, Simchick GA, Sun MK, Forghani R, Lenear CE, Ahmed A, Mohankumar R, Balaji N, Mason HD, Archer-Hartmann SA, Azadi P, Holmes PV, Zhao Q, Bellamkonda RV, Karumbaiah L:

Engineered glycomaterial implants orchestrate large-scale functional repair of brain tissue chronically after severe traumatic brain injury

Sci Adv. 2021 Mar 5;7(10):eabe0207. doi: 10.1126/sciadv.abe0207. Print 2021 Mar.

<https://doi.org/10.1126/sciadv.abe0207>

Lavarenne J, Gonin M, Champion A, Javelle M, Adam H, Rouster J, Conejero G, Lartaud M, Verdeil JL, Laplaze L, Sallaud C, Lucas M, Gantet P:

Transcriptome profiling of laser-captured crown root primordia reveals new pathways activated during early stages of crown root formation in rice.

PLoS One. 2020 Nov 19;15(11):e0238736. doi: 10.1371/journal.pone.0238736. eCollection 2020.

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0238736>

LaFavers KA, Macedo E, Garimella PS, Lima C, Khan S, Myslinski J, McClintick J, Witzmann FA, Winfree S, Phillips CL, Hato T, Dagher PC, Wu XR, El-Achkar TM, Micanovic R:

Circulating uromodulin inhibits systemic oxidative stress by inactivating the TRPM2 channel

Sci Transl Med. 2019 Oct 2;11(512). pii: eaaw3639. doi: 10.1126/scitranslmed.aaw3639.

<http://stm.sciencemag.org/cgi/pmidlookup?view=short&pmid=31578243>

Lammel, S., Hetzel, A., Hackel, O., Jones, I., Liss, B., and Roeper, J.:

Unique properties of mesoprefrontal neurons within a dual mesocorticolimbic dopamine system

Neuron 57(5): 760-773 (2008)

<http://www.cell.com/neuron/retrieve/pii/S0896627308001074>

Li D, Liu J, Yang C, Tian Y, Yin C, Hu L, Chen Z, Zhao F, Zhang R, Lu A, Zhang G, Qian A:

Targeting long noncoding RNA PMIF facilitates osteoprogenitor cells migrating to bone formation surface to promote bone formation during aging

Theranostics. 2021 Mar 20;11(11):5585-5604. doi: 10.7150/thno.54477.

<https://www.thno.org/v11p5585.htm>

Li Y, Guo X, Xue Q, Zhu M, Gao L, and Wang Y:

Single Cell Gene Profiling Revealed Heterogeneity of Paracrine Effects of Bone Marrow Cells in Mouse Infarcted Hearts

PLoS ONE 8(7): e68270. doi:10.1371/journal.pone.0068270

<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0068270>

Liang L, Xu J, Liang ZT, Dong XP, Chen HB, Zhao ZZ:

Tissue-Specific Analysis of Secondary Metabolites Creates a Reliable Morphological Criterion for Quality Grading of Polygoni Multiflori Radix

Molecules. 2018 May 8;23(5). pii: E1115. doi: 10.3390/molecules23051115.

<https://europepmc.org/abstract/med/29738485>

Liang Z, Sham T, Yang G, Yi L, Chen H, Zhao Z:

Profiling of secondary metabolites in tissues from Rheum palmatum L. using laser microdissection and liquid chromatography mass spectrometry

Anal Bioanal Chem. 2013 May;405(12):4199-212. doi: 10.1007/s00216-013-6819-z.

<http://dx.doi.org/10.1007/s00216-013-6819-z>

Liddel SA, Temple S, Møllgård K, Gehwolf R, Wagner A, Bauer H, Bauer HC, Phoenix TN, Dziegielewska KM, Saunders NR:

Molecular Characterisation of Transport Mechanisms at the Developing Mouse Blood-CSF Interface: A Transcriptome Approach

PLoS One. 2012;7(3):e33554. Epub 2012 Mar 21.

<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0033554>

Liu T, Ma Q, Zhang Y, Wang X, Xu K, Yan K, Dong W, Fan Q, Zhang Y, Qiu X:

Self-seeding circulating tumor cells promote the proliferation and metastasis of human osteosarcoma by upregulating interleukin-8

Cell Death Dis. 2019 Jul 31;10(8):575. doi: 10.1038/s41419-019-1795-7.

<http://dx.doi.org/10.1038/s41419-019-1795-7>

Lynch L, Gamblin A, Vintiner S, Simons JL:

STR profiling of epithelial cells identified by X/Y-FISH labelling and laser microdissection using standard and elevated PCR conditions

Forensic Sci Int Genet. 2014 Oct 25;16C:1-7. doi: 10.1016/j.fsigen.2014.10.017.

[http://linkinghub.elsevier.com/retrieve/pii/S1872-4973\(14\)00233-6](http://linkinghub.elsevier.com/retrieve/pii/S1872-4973(14)00233-6)

MacFarlane EG, Parker SJ, Shin JY, Ziegler SG, Creamer TJ, Bagirzadeh R, Bedja D, Chen Y, Calderon JF, Weissler K, Frischmeyer-Guerrero PA, Lindsay ME, Habashi JP, Dietz HC

Lineage-specific events underlie aortic root aneurysm pathogenesis in Loeys-Dietz syndrome

J Clin Invest. 2019 Feb 1;129(2):659-675. doi: 10.1172/JCI123547. Epub 2019 Jan 7.

<https://doi.org/10.1172/JCI123547>

Maerkens A, Olivé M, Schreiner A, Feldkirchner S, Schessl J, Uszkoreit J, Barkovits K, Güttsches AK, Theis V, Eisenacher M, Tegenthoff M, Goldfarb LG, Schröder R, Schoser B, van der Ven PF, Fürst DO, Vorgerd M, Marcus K, Kley RA:

New insights into the protein aggregation pathology in myotilinopathy by combined proteomic and immunolocalization analyses

Acta Neuropathol Commun. 2016 Feb 3;4(1):8. doi: 10.1186/s40478-016-0280-0.

<http://actaneurocomms.biomedcentral.com/articles/10.1186/s40478-016-0280-0>

Mayer C, Jaglin XH, Cobbs LV, Bandler RC, Streicher C, Cepko CL, Hippenmeyer S, Fishell G:

Clonally Related Forebrain Interneurons Disperse Broadly across Both Functional Areas and Structural Boundaries

Neuron. 2015 Sep 2;87(5):989-98. doi: 10.1016/j.neuron.2015.07.011.

[http://linkinghub.elsevier.com/retrieve/pii/S0896-6273\(15\)00633-9](http://linkinghub.elsevier.com/retrieve/pii/S0896-6273(15)00633-9)

McDaniel K, Huang L, Sato K, Wu N, Annable T, Zhou T, Ramos-Lorenzo S, Wan Y, Huang Q, Francis H, Glaser S, Tsukamoto H, Alpini G, Meng F:

The let-7/lin28 axis regulates activation of hepatic stellate cells in alcoholic liver injury

J Biol Chem. 2017 May 23. pii: jbc.M116.773291. doi: 10.1074/jbc.M116.773291.

<http://www.jbc.org/content/early/2017/05/23/jbc.M116.773291.short>

Micanovic R, Khan S, El-Achkar TM:

Immunofluorescence laser micro-dissection of specific nephron segments in the mouse kidney allows targeted downstream proteomic analysis

Physiol Rep. 2015 Feb 12;3(2). pii: e12306. doi: 10.14814/phy2.12306.

<http://physreports.physiology.org/cgi/pmidlookup?view=long&pmid=25677553>

Mishra PK, Teale JM:

Transcriptome analysis of the ependymal barrier during murine neurocysticercosis

J Neuroinflammation. 2012 Jun 25;9(1):141

<http://www.jneuroinflammation.com/content/9/1/141/abstract>

Mohan RA, Bosada FM, van Weerd JH, van Duijvenboden K, Wang J, Mommersteeg MTM, Hooijkaas IB, Wakker V, de Gier-de Vries C, Coronel R, Boink GJJ, Bakkers J, Barnett P, Boukens BJ, Christoffels VM:

T-box transcription factor 3 governs a transcriptional program for the function of the mouse atrioventricular conduction system

Proc Natl Acad Sci U S A. 2020 Jul 16;201919379. doi: 10.1073/pnas.1919379117.

<https://www.pnas.org/content/early/2020/07/15/1919379117.short>

Mund A, Coscia F, Hollandi R, Kovacs F, Kriston A, Brunner A-D, Bzorek M, Naimy S, Rahbeck Gjerdum LM, Dyring-Andersen B, Bulkescher JM, Lukas C, Gnann C, Lundberg E, Horvath P, Mann M:

AI-driven Deep Visual Proteomics defines cell identity and heterogeneity

bioRxiv, 27 Jan 2021, doi: doi: <https://doi.org/10.1101/2021.01.25.427969>

<https://www.biorxiv.org/content/10.1101/2021.01.25.427969v1>

Nagai-Okatani C, Nagai M, Sato T, Kuno A:

An Improved Method for Cell Type-Selective Glycomic Analysis of Tissue Sections Assisted by Fluorescence Laser Microdissection

Int J Mol Sci. 2019 Feb 6;20(3). pii: E700. doi: 10.3390/ijms20030700.

<http://www.mdpi.com/resolver?pii=ijms20030700>

Nakashima Y, Egami Y, Kimura M, Wakimoto T, Abe I:

Metagenomic Analysis of the Sponge Discodermia Reveals the Production of the Cyanobacterial Natural Product Kasumigamide by 'Entotheonella'

PLoS One. 2016 Oct 12;11(10):e0164468. doi: 10.1371/journal.pone.0164468. eCollection 2016.

<http://dx.plos.org/10.1371/journal.pone.0164468>

Öhlund M, Franzen P, Andersson G, Holst BS, Lau J:

Laser Microdissection of Pancreatic Islets Allows for Quantitative Real-Time PCR Detection of Islet-Specific Gene Expression in Healthy and Diabetic Cats

Journal of Gastroenterology, Pancreatology & Liver Disorders

http://www.researchgate.net/publication/270816898_Laser_Microdissection_of_Pancreatic_Islets_Allows_for_Quantitative_Real-Time_PCR_Detection_of_Islet-Specific_Gene_Expression_in_Healthy_and_Diabetic_Cats_Amyloid

Ong W, Marival N, Lin J, Nai MH, Chong YS, Pinese C, Sajikumar S, Lim CT, Ffrench-Constant C, Bechler ME, Chew SY

Biomimicking Fiber Platform with Tunable Stiffness to Study Mechanotransduction Reveals Stiffness Enhances Oligodendrocyte Differentiation but Impedes Myelination through YAP-Dependent Regulation

Small. 2020 Aug 12:e2003656. doi: 10.1002/smll.202003656.

<https://onlinelibrary.wiley.com/doi/abs/10.1002/smll.202003656>

Pereira M, Birtele M, Shrigley S, Benitez JA, Hedlund E, Parmar M, Ottosson DR:

Direct Reprogramming of Resident NG2 Glia into Neurons with Properties of Fast-Spiking Parvalbumin-Containing Interneurons

Stem Cell Reports. 2017 Aug 22. pii: S2213-6711(17)30333-8. doi: 10.1016/j.stemcr.2017.07.023.

<http://www.sciencedirect.com/science/article/pii/S2213671117303338>

Petrescu AD, Grant S, Williams E, Frampton G, Reinhart EH, Nguyen A, An S, McMillin M, DeMorrow S:

Ghrelin reverses ductular reaction and hepatic fibrosis in a rodent model of cholestasis

Sci Rep. 2020 Sep 29;10(1):16024. doi: 10.1038/s41598-020-72681-5.

<https://www.nature.com/articles/s41598-020-72681-5>

Ping YS, Shun Chang XL, Goh SK, Choong Syn CK:

Optimization of Spermatozoa Detection using Immunofluorescent Staining and Laser Micro-Dissection

Forensic Science International, 13 Jul 2015

<http://www.fsijournal.org/article/S0379-0738%2815%2900278-9/abstract>

Poppe M, Wittig S, Jurida L, Bartkuhn M, Wilhelm J, Müller H, Beuerlein K, Karl N, Bhuju S, Ziebuhr J, Schmitz ML, Kracht M:

The NF- κ B-dependent and -independent transcriptome and chromatin landscapes of human coronavirus 229E-infected cells

PLoS Pathog. 2017 Mar 29;13(3):e1006286. doi: 10.1371/journal.ppat.1006286.

<http://journals.plos.org/plospathogens/article?id=10.1371/journal.ppat.1006286>

Raasch J, Zeller N, van Loo G, Merkler D, Mildner A, Erny D, Knobloch KP, Bethea JR, Waisman A, Knust M, Del Turco D, Deller T, Blank T, Priller J, Brück W, Pasparakis M, Prinz M:

κ B kinase 2 determines oligodendrocyte loss by non-cell-autonomous activation of NF- κ B in the central nervous system

Brain 134(Pt 4): 1184-98 (Epub 2011)

<http://brain.oxfordjournals.org/content/134/4/1184.long>

Rezk:

Novel techniques in the diagnosis, monitoring and outcome of renal and cardiac amyloidosis

Thesis, 2019

<http://discovery.ucl.ac.uk/10078174/1/Novel%20techniques%20in%20the%20diagnosis%2C%20monitoring%20and%20outcomes%20of%20renal%20and%20cardiac%20amyloidosis%20PhD%20thesis%20Post%20Viva%20Corrections.pdf>

Root DH, Mejias-Aponte CA, Qi J, Morales M:

Role of glutamatergic projections from ventral tegmental area to lateral habenula in aversive conditioning

J Neurosci. 2014 Oct 15;34(42):13906-10. doi: 10.1523/JNEUROSCI.2029-14.2014.

<http://www.jneurosci.org/cgi/pmidlookup?view=long&pmid=25319687>

Roy E, Wong HY, Villani R, Rouille T, Salik B, Sim SL, Murigneux V, Stark MS, Fink JL, Soyer HP, Walker G, Lyons JG, Saunders N, Khosrotehrani K:

Regional Variation in Epidermal Susceptibility to UV-Induced Carcinogenesis Reflects Proliferative Activity of Epidermal Progenitors

Cell Rep. 2020 Jun 2;31(9):107702. doi: 10.1016/j.celrep.2020.107702.

<https://www.sciencedirect.com/science/article/pii/S2211124720306720>

Rydén M, Uzunel M, Hård JL, Borgström E, Mold JE, Arner E, Mejhert N, Andersson DP, Widlund Y, Hassan M, Jones CV, Spalding KL, Svahn BM, Ahmadian A, Frisén J, Bernard S, Mattsson J, Arner P:

Transplanted Bone Marrow-Derived Cells Contribute to Human Adipogenesis

Cell Metab. 2015 Jul 14. pii: S1550-4131(15)00278-8. doi: 10.1016/j.cmet.2015.06.011.

[http://linkinghub.elsevier.com/retrieve/pii/S1550-4131\(15\)00278-8](http://linkinghub.elsevier.com/retrieve/pii/S1550-4131(15)00278-8)

Sada N, Fujita Y, Mizuta N, Ueno M, Furukawa T, Yamashita T:

Inhibition of HDAC increases BDNF expression and promotes neuronal rewiring and functional recovery after brain injury

Cell Death Dis. 2020 Aug 18;11(8):655. doi: 10.1038/s41419-020-02897-w.

<https://www.nature.com/articles/s41419-020-02897-w.pdf>

Sadeghi Z, Kenyon JD, Richardson B, Khalifa AO, Cartwright M, Conroy B, Caplan A, Cameron MJ, Hijaz A:

Transcriptomic Analysis of Human Mesenchymal Stem Cell Therapy in Incontinent Rat Injured Urethra

Tissue Eng Part A. 2020 Jul 2. doi: 10.1089/ten.tea.2020.0033.

<https://www.liebertpub.com/doi/10.1089/ten.tea.2020.0033>

Schnorbusch K, Lembrechts R, Pintelon I, Timmermans JP, Brouns I, Adriaensen D:

GABAergic signaling in the pulmonary neuroepithelial body microenvironment: functional imaging in GAD67-GFP mice

Histochem Cell Biol. 2013 Apr 9.

<http://dx.doi.org/10.1007/s00418-013-1093-x>

Sethi S, Vrana JA, Theis JD, Leung N, Sethi A, Nasr SH, Fervenza FC, Cornell LD, Fidler ME, Dogan A:

Laser microdissection and mass spectrometry-based proteomics aids the diagnosis and typing of renal amyloidosis

Kidney Int. 2012 Apr 11. doi: 10.1038/ki.2012.108.

<http://dx.doi.org/10.1038/ki.2012.108>

Shimizu N, Wada N, Shimizu T, Suzuki T, Takaoka EI, Kanai AJ, de Groat WC, Hirayama A, Hashimoto M, Uemura H, Yoshimura N :

Effects of nerve growth factor neutralization on TRP channel expression in laser-captured bladder afferent neurons in mice with spinal cord injury

Neurosci Lett. 2018 Jun 27. pii: S0304-3940(18)30452-X. doi: 10.1016/j.neulet.2018.06.049.
[https://linkinghub.elsevier.com/retrieve/pii/S0304-3940\(18\)30452-X](https://linkinghub.elsevier.com/retrieve/pii/S0304-3940(18)30452-X)

Skalicky S, Zwiers PJ, Kuiper T, Schraml E, Hackl M, Molema G:

Combining laser microdissection and microRNA expression profiling to unmask microRNA signatures in complex tissues

Biotechniques. 2019 Oct 17. doi: 10.2144/btn-2019-0032.
<https://www.future-science.com/doi/pdf/10.2144/btn-2019-0032>

Spagnuolo V, Figlioli F, De Nicola F, Capozzi F, Giordano S:

Tracking the route of phenanthrene uptake in mosses: An experimental trial

Sci Total Environ. 2016 Sep 29. pii: S0048-9697(16)32104-0. doi: 10.1016/j.scitotenv.2016.09.174.
<http://www.sciencedirect.com/science/article/pii/S0048969716321040>

Splinter J, Jakob B, Lang M, Yano K, Engelhardt J, Hell SW, Chen DJ, Durante M, Taucher-Scholz G:
Biological dose estimation of UVA laser microirradiation utilizing charged particle-induced protein foci

Mutagenesis. 2010 May;25(3):289-97. doi: 10.1093/mutage/geq005.
<https://academic.oup.com/mutage/article-lookup/doi/10.1093/mutage/geq005>

Steinecke A, Kurabayashi N, Hayano Y, Ishino Y, Taniguchi H:

In Vivo Single-Cell Genotyping of Mouse Cortical Neurons Transfected with CRISPR/Cas9

Cell Rep. 2019 Jul 9;28(2):325-331.e4. doi: 10.1016/j.celrep.2019.06.038.
[https://linkinghub.elsevier.com/retrieve/pii/S2211-1247\(19\)30804-6](https://linkinghub.elsevier.com/retrieve/pii/S2211-1247(19)30804-6)

Suárez-Calvet X, Gallardo E, Nogales-Gadea G, Querol L, Navas M, Diaz-Manera J, Rojas-Garcia R, Illa I:

Altered RIG-I/DDX58-mediated innate immunity in dermatomyositis

J Pathol. 2014 Mar 6. doi: 10.1002/path.4346.
<http://onlinelibrary.wiley.com/doi/10.1002/path.4346/abstract>

Sundaresan S, Meininger CA, Kang AJ, Photenhauer AL, Hayes MM, Sahoo N, Grembecka J, Cierpicki T, Ding L, Giordano TJ, Else T, Madrigal DJ, Low MJ, Campbell F, Baker A-M, Xu H, Wright NA, Merchant JL:

Gastrin Induces Nuclear Export and Proteasome Degradation of Menin in Enteric Glial Cells

Gastroenterology (2017), doi: 10.1053/j.gastro.2017.08.038.
[https://linkinghub.elsevier.com/retrieve/pii/S0016-5085\(17\)36071-7](https://linkinghub.elsevier.com/retrieve/pii/S0016-5085(17)36071-7)

Swieck K, Conta-Steencken A, Middleton FA, Siebert JR, Osterhout DJ, Stelzner DJ:

Effect of lesion proximity on the regenerative response of long descending propriospinal neurons after spinal transection injury

BMC Neurosci. 2019 Mar 18;20(1):10. doi: 10.1186/s12868-019-0491-y.
<https://bmcneurosci.biomedcentral.com/articles/10.1186/s12868-019-0491-y>

Tachikawa M, Sumiyoshiya Y, Saigusa D, Sasaki K, Watanabe M, Uchida Y, Terasaki T :

Liver zonation index of drug transporter and metabolizing enzyme protein expressions in mouse liver acinus

Drug Metab Dispos. 2018 Mar 5. pii: dmd.117.079244. doi: 10.1124/dmd.117.079244.
<http://dmd.aspetjournals.org/content/dmd/early/2018/03/05/dmd.117.079244.full.pdf?with-ds=yes>

Takahashi N, Hirata Y, Aihara K, Mas P:

A Hierarchical Multi-oscillator Network Orchestrates the Arabidopsis Circadian System

Cell. 2015 Sep 24;163(1):148-59. doi: 10.1016/j.cell.2015.08.062.

[http://linkinghub.elsevier.com/retrieve/pii/S0092-8674\(15\)01114-9](http://linkinghub.elsevier.com/retrieve/pii/S0092-8674(15)01114-9)

Valleix S, Verona G, Jourde-Chiche N, Nédelec B, Mangione PP, Bridoux F, Mangé A, Dogan A, Goujon JM, Lhomme M, Dauteuille C, Chabert M, Porcari R, Waudby CA, Relini A, Talmud PJ, Kovrov O, Olivecrona G, Stoppini M, Christodoulou J, Hawkins PN, Grateau G, Delpech M, Kontush A, Gillmore JD, Kalopissis AD, Bellotti V:

D25V apolipoprotein C-III variant causes dominant hereditary systemic amyloidosis and confers cardiovascular protective lipoprotein profile

Nat Commun. 2016 Jan 21;7:10353. doi: 10.1038/ncomms10353.

<http://dx.doi.org/10.1038/ncomms10353>

van Hooren L, Vaccaro A, Ramachandran M, Vazaios K, Libard S, van de Walle T, Georganaki M, Huang H, Pietilä I, Lau J, Ulvmar MH, Karlsson MCI, Zetterling M, Mangsbo SM, Jakola AS, Olsson Bontell T, Smits A, Essand M, Dimberg A:

Agonistic CD40 antibody therapy induces tertiary lymphoid structures but impairs the response to immune checkpoint blockade in glioma

bioRxiv, 06 Jan 2021, doi: <https://doi.org/10.1101/2021.01.05.425377>

<https://www.biorxiv.org/content/10.1101/2021.01.05.425377v1.full>

Verckist L, Lembrechts R, Thys S, Pintelon I, Timmermans JP, Brouns I, Adriaensen D:

Selective gene expression analysis of the neuroepithelial body microenvironment in postnatal lungs with special interest for potential stem cell characteristics

Respir Res. 2017 May 8;18(1):87. doi: 10.1186/s12931-017-0571-4.

<https://respiratory-research.biomedcentral.com/articles/10.1186/s12931-017-0571-4>

Wang Z, Liu CH, Huang S, Fu Z, Tomita Y, Britton WR, Cho SS, Chen CT, Sun Y, Ma JX, and Chen J:
Wnt signaling activates MFSD2A to suppress vascular endothelial transcytosis and maintain blood-retinal barrier

Science Advances 28 Aug 2020: Vol. 6, no. 35, eaba7457; DOI: 10.1126/sciadv.aba7457

<https://advances.sciencemag.org/content/advances/6/35/eaba7457.full.pdf>

Wei Y, Gong J, Thimmulappa RK, Kosmider B, Biswal S, Duh EJ:

Nrf2 acts cell-autonomously in endothelium to regulate tip cell formation and vascular branching

Proc Natl Acad Sci U S A. 2013 Oct 8;110(41):E3910-E3918.

<http://www.pnas.org/cgi/pmidlookup?view=long&pmid=24062466>

Wei Y, Gong J, Xu Z, Thimmulappa RK, Mitchell KL, Welsbie DS, Biswal S, Duh EJ:

Nrf2 in ischemic neurons promotes retinal vascular regeneration through regulation of semaphorin 6A

Proc Natl Acad Sci U S A. 2015 Nov 30. pii: 201512683.

<http://www.pnas.org/cgi/pmidlookup?view=long&pmid=26621751>

Welsh IC, Thomsen M, Gludish DW, Alfonso-Parra C, Bai Y, Martin JF, Kurpios NA:

Integration of Left-Right Pitx2 Transcription and Wnt Signaling Drives Asymmetric Gut Morphogenesis via Daam2

Dev Cell. 2013 Sep 30;26(6):629-44. doi: 10.1016/j.devcel.2013.07.019.

[http://linkinghub.elsevier.com/retrieve/pii/S1534-5807\(13\)00449-8](http://linkinghub.elsevier.com/retrieve/pii/S1534-5807(13)00449-8)

Winter L, Wittig I, Peeva V, Eggers B, Heidler J, Chevessier F, Kley RA, Barkovits K, Strecker V, Berwanger C, Herrmann H, Marcus K, Kornblum C, Kunz WS, Schröder R, Clemen CS:

Mutant desmin substantially perturbs mitochondrial morphology, function and maintenance in skeletal muscle tissue

Acta Neuropathol. 2016 Jul 8.

<http://dx.doi.org/10.1007/s00401-016-1592-7>

Xie W, Zhang H, Zeng J, Chen H, Zhao Z, Liang Z:

Tissues-based chemical profiling and semi-quantitative analysis of bioactive components in the root of *Salvia miltiorrhiza* Bunge by using laser microdissection system combined with UPLC-q-TOF-MS

Chem Cent J. 2016 Jul 13;10:42. doi: 10.1186/s13065-016-0187-7. eCollection 2016.

<http://www.journal.chemistrycentral.com/content/10/42>

Xiong H, Zhou Y, Zhou Q, He D, Deng X, Sun Q, Zhang J:

Nanocapsule assemblies as effective enzyme delivery systems against hyperuricemia

Nanomedicine. 2016 Mar 21. pii: S1549-9634(16)30001-6. doi: 10.1016/j.nano.2016.02.010.

[http://linkinghub.elsevier.com/retrieve/pii/S1549-9634\(16\)30001-6](http://linkinghub.elsevier.com/retrieve/pii/S1549-9634(16)30001-6)

Xydia M, Rahbari R, Ruggiero E, Macaulay I, Tarabichi M, Lohmayer R, Wilkening S, Michels T, Brown D, Vanuytven S, Mastitskaya S, Laidlaw S, Grabe N, Pritsch M, Fronza R, Hexel K, Schmitt S, Müller-Steinhardt M, Halama N, Domschke C, Schmidt M, von Kalle C, Schütz F, Voet T, Beckhove P.

Common clonal origin of conventional T cells and induced regulatory T cells in breast cancer patients

Nat Commun. 2021 Feb 18;12(1):1119. doi: 10.1038/s41467-021-21297-y.

<https://www.nature.com/articles/s41467-021-21297-y>

Yamaguchi T, Wei D, Song SC, Lim B, Tritsch NX, Lin D:

Posterior amygdala regulates sexual and aggressive behaviors in male mice.

Nat Neurosci. 2020 Jul 27. doi: 10.1038/s41593-020-0675-x.

<https://www.nature.com/articles/s41593-020-0675-x>

Yi L, Liang ZT, Peng Y, Yao X, Chen HB, Zhao ZZ:

Tissue-specific metabolite profiling of alkaloids in *Sinomenii* Caulis using laser microdissection and liquid chromatography-quadrupole/time of flight-mass spectrometry

J Chromatogr A. 2012 May 24. [Epub ahead of print]

<http://www.sciencedirect.com/science/article/pii/S002196731200787X>

Yokota K, Kobayakawa K, Kubota K, Miyawaki A, Okano H, Ohkawa Y, Iwamoto Y, Okada S:

Engrafted Neural Stem/Progenitor Cells Promote Functional Recovery through Synapse Reorganization with Spared Host Neurons after Spinal Cord Injury

Stem Cell Reports. 2015 Jul 14. pii: S2213-6711(15)00185-X. doi: 10.1016/j.stemcr.2015.06.004.

[http://linkinghub.elsevier.com/retrieve/pii/S2213-6711\(15\)00185-X](http://linkinghub.elsevier.com/retrieve/pii/S2213-6711(15)00185-X)

Yoshioka W, Endo N, Kurashige A, Haijima A, Endo T, Shibata T, Nishiyama R, Kakeyama M, Tohyama C:

Fluorescence laser microdissection reveals a distinct pattern of gene activation in the mouse hippocampal region

Sci Rep. 2012;2:783. doi: 10.1038/srep00783.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC23136640/>

Yoshizaki S, Tamaru T, Hara M, Kijima K, Tanaka M, Konno DJ, Matsumoto Y, Nakashima Y, Okada S:
Microglial inflammation after chronic spinal cord injury is enhanced by reactive astrocytes via the fibronectin/ β 1 integrin pathway

J Neuroinflammation. 2021 Jan 6;18(1):12. doi: 10.1186/s12974-020-02059-x.

<https://jneuroinflammation.biomedcentral.com/articles/10.1186/s12974-020-02059-x>

Zhao J, Li x, Luo Q, Chen L, Chai L, Huang Y, and Fang L:

Screening of surface markers on rat intestinal mucosa microfold cells by using laser capture microdissection combined with protein chip technology

Int J Clin Exp Med 2014;7(4):932-939; www.ijcem.com, /ISSN:1940-5901/IJCEM1401061

<http://www.ijcem.com/files/ijcem1401061.pdf>

Zhao S, DeFinis JH, and Hou S:

Alterations of Dopamine-Related Transcripts in A11 Diencephalospinal Pathways after Spinal Cord Injury

Neural Plasticity, 15 Jan 2021, Volume 2021, Article ID 8838932, 12 pages

<https://doi.org/10.1155/2021/8838932>

Zhao Y, Chu S, Gui S, Qin Y, Xu R, Shan T, Peng H:

Tissue-specific metabolite profiling of Fallopi multiflora (Heshouwu) and Fallopi multiflora var. angulata by mass spectrometry imaging and laser microdissection combined with UPLC-Q/TOF-MS

Journal of Pharmaceutical and Biomedical Analysis, Volume 200, 5 June 2021, 114070

<https://www.sciencedirect.com/science/article/abs/pii/S0731708521001813#!>

Zhu Y, Piehowski PD, Zhao R, Chen J, Shen Y, Moore RJ, Shukla AK, Petyuk VA, Campbell-Thompson M, Mathews CE, Smith RD, Qian WJ, Kelly RT

Nanodroplet processing platform for deep and quantitative proteome profiling of 10-100 mammalian cells

Nat Commun. 2018 Feb 28;9(1):882. doi: 10.1038/s41467-018-03367-w.

<https://www.nature.com/articles/s41467-018-03367-w.pdf>

Zhu Y, Zou C, Zhang J, Jiang W, Guan F, Tang K, Li S, Li G, Wang J, Ke Z:

Dynamically Monitoring the Clonal Evolution of Lung Cancer Based on the Molecular Characterization of Circulating Tumor Cells using Aptamer Cocktail-Modified Nanosubstrates

ACS Appl Mater Interfaces. 2020 Jan 15. doi: 10.1021/acsami.9b22234.

<https://dx.doi.org/10.1021/acsami.9b22234>