

## Publications *InsituPro* product line

- Abdelkhalek, Hanaa Ben, et al. "The mouse homeobox gene Not is required for caudal notochord development and affected by the truncate mutation." *Genes Dev* 18 (7 2004): 1725-1736.
- Abe, Takanori, Miho Furue, Akiko Kondow, Koichi Matsuzaki, and Makoto Asashima. "Notch signaling modulates the nuclear localization of carboxy-terminal-phosphorylated smad2 and controls the competence of ectodermal cells for activin A." *Mech Dev* 122 (5 2005): 671-680.
- Abe, Takanori, Miho Furue, Yasufumi Myoishi, Tetsuji Okamoto, Akiko Kondow, and Makoto Asashima. "Activin-like signaling activates Notch signaling during mesodermal induction." *Int J Dev Biol* 48 (6 2004): 327-332.
- Abu-Safieh, Leen, et al. "Mutation of IGFBP7 causes upregulation of BRAF/MEK/ERK pathway and familial retinal arterial macroaneurysms." *Am J Hum Genet* 89 (8 2011): 313-319.
- Adamowski, Maciek, Madhumitha Narasimhan, Urszula Kania, Matouš Glanc, Geert De Jaeger, und Jiří Friml. „A Functional Study of AUXILIN-LIKE1 and 2, Two Putative Clathrin Uncoating Factors in Arabidopsis.“ *The Plant Cell (Am Soc Plant Biol)* 30 (2018): 700-716.
- Adell, Teresa, Emili Salò, Michael Boutros, and Kerstin Bartscherer. "Smed-Evi/Wntless is required for beta-catenin-dependent and -independent processes during planarian regeneration." *Development* 136 (3 2009): 905-910.
- Ahn, Sohyun, and Alexandra L. Joyner. "Dynamic changes in the response of cells to positive hedgehog signaling during mouse limb patterning." *Cell* 118 (8 2004): 505-516.
- Ajima, Rieko, Yuko Sakakibara, Noriko Sakurai-Yamatani, Masafumi Muraoka, and Yumiko Saga. „Formal proof of the requirement of MESP1 and MESP2 in mesoderm specification and their transcriptional control via specific enhancers in mice.“ *Development (Cambridge, England)* 148, Nr. 20 (10 2021).
- Alazami, Anas M., et al. "FREM1 mutations cause bifid nose, renal agenesis, and anorectal malformations syndrome." *Am J Hum Genet* 85 (9 2009): 414-418.
- Alazami, Anas M., et al. "Loss of function mutation in LARP7, chaperone of 7SK ncRNA, causes a syndrome of facial dysmorphism, intellectual disability, and primordial dwarfism." *Hum Mutat* 33 (10 2012): 1429-1434.
- Alazami, Anas M., et al. "Mutations in C2orf37, encoding a nucleolar protein, cause hypogonadism, alopecia, diabetes mellitus, mental retardation, and extrapyramidal syndrome." *Am J Hum Genet* 83 (12 2008): 684-691.

- Aldahmesh, Mohammed A., et al. "Identification of ADAMTS18 as a gene mutated in Knobloch syndrome." *J Med Genet* 48 (9 2011): 597-601.
- Almuedo-Castillo, María, et al. „Scale-invariant patterning by size-dependent inhibition of Nodal signalling.“ *Nature cell biology* (Nature Publishing Group), 2018: 1.
- Almuedo-Castillo, María, Xenia Crespo, Florian Seebeck, Kerstin Bartscherer, Emili Salò, and Teresa Adell. "JNK Controls the Onset of Mitosis in Planarian Stem Cells and Triggers Apoptotic Cell Death Required for Regeneration and Remodeling." *PLoS Genet* 10 (6 2014): e1004400.
- Alunni, Alessandro, Arnaud Menuet, Eva Candal, Jean-Baptiste Pénigault, William R. Jeffery, and Sylvie Rétaux. "Developmental mechanisms for retinal degeneration in the blind cavefish *Astyanax mexicanus*." *J Comp Neurol* 505 (11 2007): 221-233.
- Aman, Andrew J., Margaret Kim, Lauren M. Saunders, und David M. Parichy. „Thyroid hormone regulates abrupt skin morphogenesis during zebrafish postembryonic development.“ *Developmental biology* 477 (9 2021): 205-218.
- Anderson, Douglas M., et al. "Mohawk is a novel homeobox gene expressed in the developing mouse embryo." *Dev Dyn* 235 (3 2006): 792-801.
- Antin, Parker B., Mark A. Bales, Wenjun Zhang, Robert J. Garriock, Tatiana A. Yatskievych, and Mark A. Bates. "Precocious expression of cardiac troponin T in early chick embryos is independent of bone morphogenetic protein signaling." *Dev Dyn* 225 (10 2002): 135-141.
- Ariel, Federico, et al. "Two direct targets of cytokinin signaling regulate symbiotic nodulation in *Medicago truncatula*." *Plant Cell* 24 (9 2012): 3838-3852.
- Arulkandarajah, Kalaimakan Hervé, et al. „Neuroepithelial progenitors generate and propagate non-neuronal action potentials across the spinal cord.“ *Current biology : CB* 31, Nr. 20 (10 2021): 4584--4595.e4.
- Asadulina, Albina, Aurora Panzera, Csaba Verasztó, Christian Liebig, and Gáspár Jékely. "Whole-body gene expression pattern registration in *Platynereis* larvae." *Evodevo* 3 (2012): 27.
- Ashley, George R., O. Cathal Grace, Griet Vanpoucke, and Axel A. Thomson. "Identification of EphrinB1 expression in prostatic mesenchyme and a role for EphB-EphrinB signalling in prostate development." *Differentiation* 80 (2010): 89-98.
- Aubert, Jerome, et al. "Screening for mammalian neural genes via fluorescence-activated cell sorter purification of neural precursors from Sox1-gfp knock-in mice." *Proc Natl Acad Sci U S A* 100 Suppl 1 (9 2003): 11836-11841.
- Aubert, Jérôme, Hannah Dunstan, Ian Chambers, and Austin Smith. "Functional gene screening in embryonic stem cells implicates Wnt antagonism in neural differentiation." *Nat Biotechnol* 20 (12 2002): 1240-1245.
- Aubry-Hivet, D., et al. "Analysis of gene expression during parabolic flights reveals distinct early gravity responses in *Arabidopsis* roots." *Plant Biol (Stuttg)* 16 Suppl 1 (1 2014): 129-141.

- Auger, Hélène, Clément Lamy, Maximilian Haeussler, Pierre Khoueiry, Patrick Lemaire, and Jean-Stéphane Joly. "Similar regulatory logic in *Ciona intestinalis* for two Wnt pathway modulators, ROR and SFRP-1/5." *Dev Biol* 329 (5 2009): 364-373.
- Autissier, Roxane, et al. „Simultaneous proteoglycans and hypoxia mapping of chondrosarcoma environment by frequency selective CEST MRI.“ *Magnetic resonance in medicine* 86, Nr. 2 (8 2021): 1008-1018.
- Backofen, Bianca, Ralf Jacob, Katrin Serth, Achim Gossler, Hassan Y. Naim, and Tosso Leeb. "Cloning and characterization of the mammalian-specific nicolin 1 gene (NICN1) encoding a nuclear 24 kDa protein." *Eur J Biochem* 269 (11 2002): 5240-5245.
- Bailly, Aurélien, et al. „Expression of TWISTED DWARF1 lacking its in-plane membrane anchor leads to increased cell elongation and hypermorphic growth.“ *The Plant journal : for cell and molecular biology* 77, Nr. 1 (1 2014): 108-118.
- Bajanca, Fernanda, Nadege Gouignard, Charlotte Colle, Maddy Parsons, Roberto Mayor, und Eric Theveneau. „In vivo topology converts competition for cell-matrix adhesion into directional migration.“ *Nature communications* (Nature Publishing Group) 10 (2019): 1518.
- Barbez, Elke, et al. "A novel putative auxin carrier family regulates intracellular auxin homeostasis in plants." *Nature* 485 (5 2012): 119-122.
- Barbosa, Inês C. R., Melina Zourelidou, Björn C. Willige, Benjamin Weller, and Claus Schwechheimer. "D6 PROTEIN KINASE Activates Auxin Transport-Dependent Growth and PIN-FORMED Phosphorylation at the Plasma Membrane." *Dev Cell* 29 (6 2014): 674-685.
- Bärenz, Felix, et al. "The centriolar satellite protein SSX2IP promotes centrosome maturation." *J Cell Biol* 202 (7 2013): 81-95.
- Barnett, Austen A., Taro Nakamura, und Cassandra G. Extavour. „Hox genes limit germ cell formation in the short germ insect , javax.xml.bind.JAXBElement@30f7c98a, .“ *Proceedings of the National Academy of Sciences of the United States of America*, 7 2019.
- Barnett, Christopher P., et al. "Ectrodactyly and lethal Pulmonary acinar Dysplasia Associated with Homozygous FGFR2 Mutations Identified by Exome Sequencing." *Hum Mutat*, 6 2016.
- Behr, Matthias, Christian Wingen, Christian Wolf, Reinhard Schuh, and Michael Hoch. "Wurst is essential for airway clearance and respiratory-tube size control." *Nat Cell Biol* 9 (7 2007): 847-853.
- Behr, Matthias, Dietmar Riedel, and Reinhard Schuh. "The claudin-like megatrachea is essential in septate junctions for the epithelial barrier function in *Drosophila*." *Dev Cell* 5 (10 2003): 611-620.
- Bell, George W., Tatiana A. Yatskievych, and Parker B. Antin. "GEISHA, a whole-mount in situ hybridization gene expression screen in chicken embryos." *Dev Dyn* 229 (3 2004): 677-687.

- Bellaiche, Johanna, Jean-Jacques Lareyre, Chantal Cauty, Ayaka Yano, Isabelle Allemand, and Florence Le Gac. "Spermatogonial Stem Cell Quest: nanos2, Marker of a Subpopulation of Undifferentiated A Spermatogonia in Trout Testis." *Biol Reprod* 90 (2014): 79.
- Bertho, Sylvain, et al. „The unusual rainbow trout sex determination gene hijacked the canonical vertebrate gonadal differentiation pathway.“ *Proceedings of the National Academy of Sciences* (National Acad Sciences), 2018: 201803826.
- Berthon, Annabel, et al. "Constitutive beta-catenin activation induces adrenal hyperplasia and promotes adrenal cancer development." *Hum Mol Genet* 19 (4 2010): 1561-1576.
- Biggs, Leah C., et al. „Hair follicle dermal condensation forms via Fgf20 primed cell cycle exit, cell motility, and aggregation.“ *Elife* (eLife Sciences Publications Limited) 7 (2018): e36468.
- Bildsoe, Heidi, David A. F. Loebel, Vanessa J. Jones, You-Tzung Chen, Richard R. Behringer, and Patrick P. L. Tam. "Requirement for Twist1 in frontonasal and skull vault development in the mouse embryo." *Dev Biol* 331 (7 2009): 176-188.
- Bildsoe, Heidi, et al. "The mesenchymal architecture of the cranial mesoderm of mouse embryos is disrupted by the loss of Twist1 function." *Dev Biol* 374 (2 2013): 295-307.
- Bildsoe, Heidi, et al. "Transcriptional targets of TWIST1 in the cranial mesoderm regulate cell-matrix interactions and mesenchyme maintenance." *Dev Biol*, 8 2016.
- Blakeslee, Joshua J., et al. "Interactions among PIN-FORMED and P-glycoprotein auxin transporters in Arabidopsis." *Plant Cell* 19 (1 2007): 131-147.
- Bleckmann, Andrea, und Thomas Dresselhaus. „Whole Mount RNA-FISH on Ovules and Developing Seeds.“ *Methods in molecular biology* (Clifton, N.J.) 1669 (2017): 159-171.
- Bobe, Julien, et al. "A novel, functional, and highly divergent sex hormone-binding globulin that may participate in the local control of ovarian functions in salmonids." *Endocrinology* 149 (6 2008): 2980-2989.
- Bobe, Julien, Thaovi Nguyen, Sophie MahÃ©, and Philippe Monget. "In silico identification and molecular characterization of genes predominantly expressed in the fish oocyte." *BMC Genomics* 9 (2008): 499.
- Borchiellini, Carole, et al. „Staining and Tracking Methods for Studying Sponge Cell Dynamics.“ *Methods in molecular biology* (Clifton, N.J.) 2219 (2021): 81-97.
- Borg, Michael, et al. „Targeted reprogramming of H3K27me3 resets epigenetic memory in plant paternal chromatin.“ *Nature cell biology*, 5 2020.
- Borghi, Lorenzo, Marina Bureau, and RÃ©diger Simon. "Arabidopsis JAGGED LATERAL ORGANS is expressed in boundaries and coordinates KNOX and PIN activity." *Plant Cell* 19 (6 2007): 1795-1808.
- Böser, Alexander, et al. "SILAC proteomics of planarians identifies Ncoa5 as a conserved component of pluripotent stem cells." *Cell Rep* 5 (11 2013): 1142-1155.

- Bothe, Ingo, and Susanne Dietrich. "The molecular setup of the avian head mesoderm and its implication for craniofacial myogenesis." *Dev Dyn* 235 (10 2006): 2845-2860.
- Bouchard, Rodolphe, et al. "Immunophilin-like TWISTED DWARF1 modulates auxin efflux activities of Arabidopsis P-glycoproteins." *J Biol Chem* 281 (10 2006): 30603-30612.
- Bouleau, Aurélien, et al. "Maternally-Inherited npm2 mRNA Is Crucial for Egg Developmental Competence in Zebrafish." *Biol Reprod*, 7 2014.
- Bouzaffour, Mohamed, Pascale Dufourcq, Virginie Lecaudey, Petra Haas, and Sophie Vriz. "Fgf and Sdf-1 pathways interact during zebrafish fin regeneration." *PLoS One* 4 (2009): e5824.
- Braquart-Varnier, Christine, et al. "A subtractive approach to characterize genes with regionalized expression in the gliogenic ventral neuroepithelium: identification of chick sulfatase 1 as a new oligodendrocyte lineage gene." *Mol Cell Neurosci* 25 (4 2004): 612-628.
- Brend, Tim, Jonathan Gilthorpe, Dennis Summerbell, and Peter W. J. Rigby. "Multiple levels of transcriptional and post-transcriptional regulation are required to define the domain of Hoxb4 expression." *Development* 130 (6 2003): 2717-2728.
- Brumm, Sabine, et al. „ARF1 dimerization is essential for vesicle trafficking and dependent on activation by ARF-GEF dimers in Arabidopsis.“ *bioRxiv* (Cold Spring Harbor Laboratory), 2020.
- Brumm, Sabine, et al. „N-terminal domain of ARF-GEF GNOM prevents heterodimerisation with functionally divergent GNL1 in Arabidopsis.“ *The Plant journal : for cell and molecular biology*, 9 2022.
- Bryant, Sarah L., et al. "Sex specific retinoic acid signaling is required for the initiation of urogenital sinus bud development." *Dev Biol*, 9 2014.
- Buaas, Frank William, Pierre Val, and Amanda Swain. "The transcription co-factor CITED2 functions during sex determination and early gonad development." *Hum Mol Genet* 18 (8 2009): 2989-3001.
- Buchtová, Marcela, et al. "Whole genome microarray analysis of chicken embryo facial prominences." *Dev Dyn* 239 (2 2010): 574-591.
- Bureau, Marina, Madlen I. Rast, Jasmin Illmer, and Rüdiger Simon. "JAGGED LATERAL ORGAN (JLO) controls auxin dependent patterning during development of the Arabidopsis embryo and root." *Plant Mol Biol* 74 (11 2010): 479-491.
- Burow, Susann, et al. „Medaka follicle-stimulating hormone (Fsh) and luteinizing hormone (Lh): Developmental profiles of pituitary protein and gene expression levels.“ *General and comparative endocrinology* 272 (2 2019): 93-108.
- Buttitta, Laura, Tetsuya S. Tanaka, Alice E. Chen, Minoru S. H. Ko, and Chen-Ming Fan. "Microarray analysis of somitogenesis reveals novel targets of different WNT signaling pathways in the somitic mesoderm." *Dev Biol* 258 (6 2003): 91-104.

- Caltharp, Shelley A., et al. "NOGO-A induction and localization during chick brain development indicate a role disparate from neurite outgrowth inhibition." *BMC Dev Biol* 7 (2007): 32.
- Calve, Sarah, Shannon J. Odelberg, and Hans-Georg Simon. "A transitional extracellular matrix instructs cell behavior during muscle regeneration." *Dev Biol* 344 (8 2010): 259-271.
- Camarata, Troy, Diana Snyder, Tyler Schwend, Julian Klosowiak, Brandon Holtrup, and Hans-Georg Simon. "Pdlim7 is required for maintenance of the mesenchymal/epidermal Fgf signaling feedback loop during zebrafish pectoral fin development." *BMC Dev Biol* 10 (2010): 104.
- Camarata, Troy, Jennifer Krcmery, Diana Snyder, Susan Park, Jacek Topczewski, and Hans-Georg Simon. "Pdlim7 (LMP4) regulation of Tbx5 specifies zebrafish heart atrio-ventricular boundary and valve formation." *Dev Biol* 337 (1 2010): 233-245.
- Cammas, Laura, Raymond Romand, Valérie Fraulob, Carole Mura, and Pascal Dollé. "Expression of the murine retinol dehydrogenase 10 (Rdh10) gene correlates with many sites of retinoid signalling during embryogenesis and organ differentiation." *Dev Dyn* 236 (10 2007): 2899-2908.
- Candal, Eva, Vân Nguyen, Jean-Stéphane Joly, and Franck Bourrat. "Expression domains suggest cell-cycle independent roles of growth-arrest molecules in the adult brain of the medaka, *Oryzias latipes*." *Brain Res Bull* 66 (9 2005): 426-430.
- Candal, Eva, Violette Thermes, Jean-Stéphane Joly, and Franck Bourrat. "Medaka as a model system for the characterisation of cell cycle regulators: a functional analysis of Ol-Gadd45gamma during early embryogenesis." *Mech Dev* 121 (7 2004): 945-958.
- Candelma, Michela, Romain Fontaine, Sabrina Colella, Alberto Santojanni, Finn-Arne Weltzien, und Oliana Carnevali. „Gonadotropin characterization, localization and expression in the European hake (*Merluccius merluccius*).“ *Reproduction (Cambridge, England)* 153, Nr. 2 (2 2017): 123-132.
- Cao, Jingli, et al. "Single epicardial cell transcriptome sequencing identifies Caveolin-1 as an essential factor in zebrafish heart regeneration." *Development*, 12 2015.
- Carramolino, Laura, Joana Fuentes, Clara García-Andrés, Valeria Azcoitia, Dieter Riethmacher, and Miguel Torres. "Platelets play an essential role in separating the blood and lymphatic vasculatures during embryonic angiogenesis." *Circ Res* 106 (4 2010): 1197-1201.
- Carraro, Nicola, and Wendy Ann Peer. "Immunolocalization of PIN and ABCB Transporters in Plants." *Methods Mol Biol* 1398 (2016): 55-67.
- Cau, Elise, Aurelie Quillien, and Patrick Blader. "Notch resolves mixed neural identities in the zebrafish epiphysis." *Development* 135 (8 2008): 2391-2401.
- Caulier, Morgane, et al. "Localization of steroidogenic enzymes and Foxl2a in the gonads of mature zebrafish (*Danio rerio*)." *Comp Biochem Physiol A Mol Integr Physiol*, 6 2015.

- Cebrià , Francesc, and Phillip A. Newmark. "Planarian homologs of netrin and netrin receptor are required for proper regeneration of the central nervous system and the maintenance of nervous system architecture." *Development* 132 (8 2005): 3691-3703.
- Cebrià , Francesc, Tingxia Guo, Jessica Jopek, and Phillip A. Newmark. "Regeneration and maintenance of the planarian midline is regulated by a slit orthologue." *Dev Biol* 307 (7 2007): 394-406.
- Cebrià, Francesc, and Phillip A. Newmark. "Morphogenesis defects are associated with abnormal nervous system regeneration following roboA RNAi in planarians." *Development* 134 (3 2007): 833-837.
- Celá, Petra, et al. „BMP signaling regulates the fate of chondro-osteoprogenitor cells in facial mesenchyme in a stage-specific manner.“ *Developmental Dynamics* (Wiley Online Library), 2016.
- Chari, Tara, et al. „Whole-animal multiplexed single-cell RNA-seq reveals transcriptional shifts across , javax.xml.bind.JAXBElement@316b39, medusa cell types.“ *Science advances* 7, Nr. 48 (11 2021): eabh1683.
- Chera, Simona, et al. "Silencing of the hydra serine protease inhibitor Kazal1 gene mimics the human SPINK1 pancreatic phenotype." *J Cell Sci* 119 (3 2006): 846-857.
- Chiga, Masahiko, Tomoko Ohmori, Takashi Ohba, Hidetaka Katabuchi, und Ryuichi Nishinakamura. „Preformed Wolffian duct regulates Müllerian duct elongation independently of canonical Wnt signaling or Lhx1 expression.“ *Int. J. Dev. Biol* 58 (2014): 663-668.
- Choi, Wen-Yee, et al. "In vivo monitoring of cardiomyocyte proliferation to identify chemical modifiers of heart regeneration." *Development* 140 (2 2013): 660-666.
- Chong, Tracy, Joel M. Stary, Yuying Wang, and Phillip A. Newmark. "Molecular markers to characterize the hermaphroditic reproductive system of the planarian *Schmidtea mediterranea*." *BMC Dev Biol* 11 (2011): 69.
- Choorapoikayil, Suma, Bernd Willems, Peter Ströhle, and Martin Gajewski. "Analysis of her1 and her7 mutants reveals a spatio temporal separation of the somite clock module." *PLoS One* 7 (2012): e39073.
- Christiaen, Lionel, Franck Bourrat, and Jean-Stéphane Joly. "A modular cis-regulatory system controls isoform-specific pitx expression in ascidian stomodaeum." *Dev Biol* 277 (1 2005): 557-566.
- Christiansen, J. H., E. G. Coles, V. Robinson, A. Pasini, and D. G. Wilkinson. "Screening from a subtracted embryonic chick hindbrain cDNA library: identification of genes expressed during hindbrain, midbrain and cranial neural crest development." *Mech Dev* 102 (4 2001): 119-133.
- Cnops, Gerda, et al. "The TORNADO1 and TORNADO2 genes function in several patterning processes during early leaf development in *Arabidopsis thaliana*." *Plant Cell* 18 (4 2006): 852-866.
- Collins, James J., et al. "Genome-wide analyses reveal a role for peptide hormones in planarian germline development." *PLoS Biol* 8 (2010): e1000509.



- Collins, Julie N. R., and James J. Collins. "Methods for Studying the Germline of the Human Parasite *Schistosoma mansoni*." *Methods Mol Biol* 1463 (2017): 35-47.
- Cordes, Ralf, Karin Schuster-Gossler, Katrin Serth, and Achim Gossler. "Specification of vertebral identity is coupled to Notch signalling and the segmentation clock." *Development* 131 (3 2004): 1221-1233.
- Coverdale, Louise E., Lindsay E. Burton, and C. Cristofre Martin. "High-throughput whole mount in situ hybridization of zebrafish embryos for analysis of tissue-specific gene expression changes after environmental perturbation." *Methods Mol Biol* 410 (2008): 3-14.
- Crocetta, Fabio, et al. "Mutation studies in ascidians: a review." *Genesis* 53 (1 2015): 160-169.
- Cui, Yan-Zhen, Yi-Feng Peng, and Qi Tian. "Expression of man, a formin homology domain-containing gene in the mouse limb." *Acta Physiologica Sinica* 57 (8 2005): 433-438.
- Dai, Mingqiu, et al. "A PP6-type phosphatase holoenzyme directly regulates PIN phosphorylation and auxin efflux in Arabidopsis." *Plant Cell* 24 (6 2012): 2497-2514.
- Daubas, Philippe, et al. "Fine-tuning the onset of myogenesis by homeobox proteins that interact with the Myf5 limb enhancer." *Biol Open*, 11 2015.
- Debiais-Thibaud, M., I. Germon, P. Laurenti, D. Casane, and V. Borday-Birraux. "Low divergence in Dlx gene expression between dentitions of the medaka (*Oryzias latipes*) versus high level of expression shuffling in osteichthyans." *Evol Dev* 10 (2008): 464-476.
- Debiais-Thibaud, Mélanie, et al. "Development of oral and pharyngeal teeth in the medaka (*Oryzias latipes*): comparison of morphology and expression of eve1 gene." *J Exp Zool B Mol Dev Evol* 308 (12 2007): 693-708.
- Delalande, Christelle, Anne-Sophie Goupil, Jean-Jacques Lareyre, and Florence Le Gac. "Differential expression patterns of 3 aromatase genes and of 4 estrogen receptors genes in trout testes (*Oncorhynchus mykiss*)." *Mol Reprod Dev*, 5 2015.
- Desvignes, T., C. Fauvel, and J. Bobe. "The NME gene family in zebrafish oogenesis and early development." *Arch Pharmacol* 384 (10 2011): 439-449.
- Desvignes, Thomas, Thaovi Nguyen, Franck Chesnel, Aurélien Bouleau, Christian Fauvel, and Julien Bobe. "X-linked Retinitis Pigmentosa 2 Is a Novel Maternal-Effect Gene Required for Left-Right Asymmetry in Zebrafish." *Biol Reprod*, 7 2015.
- Deyts, Carole, Didier Casane, Philippe Vernier, Franck Bourrat, and Jean-Stéphane Joly. "Morphological and gene expression similarities suggest that the ascidian neural gland may be osmoregulatory and homologous to vertebrate peri-ventricular organs." *Eur J Neurosci* 24 (10 2006): 2299-2308.
- Dhonukshe, Pankaj, et al. "Plasma membrane-bound AGC3 kinases phosphorylate PIN auxin carriers at TPRXS(N/S) motifs to direct apical PIN recycling." *Development* 137 (10 2010): 3245-3255.



- Di Giacomo, Elisabetta, Carole Laffont, Francesca Sciarra, Maria Adelaide Iannelli, Florian Frugier, and Giovanna Frugis. „KNAT3/4/5-like class 2 KNOX transcription factors are involved in *Medicago truncatula* symbiotic nodule organ development.“ *The New phytologist* 213, Nr. 2 (1 2017): 822-837.
- Dickmeis, Thomas, et al. "Expression profiling and comparative genomics identify a conserved regulatory region controlling midline expression in the zebrafish embryo." *Genome Res* 14 (2 2004): 228-238.
- Diez del Corral, Ruth, Dorette N. Breitzkreuz, and Kate G. Storey. "Onset of neuronal differentiation is regulated by paraxial mesoderm and requires attenuation of FGF signalling." *Development* 129 (4 2002): 1681-1691.
- Diez del Corral, Ruth, Isabel Olivera-Martinez, Anne Goriely, Emily Gale, Malcolm Maden, and Kate Storey. "Opposing FGF and retinoid pathways control ventral neural pattern, neuronal differentiation, and segmentation during body axis extension." *Neuron* 40 (9 2003): 65-79.
- Ding, Zhaojun, et al. "ER-localized auxin transporter PIN8 regulates auxin homeostasis and male gametophyte development in *Arabidopsis*." *Nat Commun* 3 (2012): 941.
- Doñate, Carmen, Joan Carles Balasch, Agnes Callol, Julien Bobe, Lluís Tort, and Simon MacKenzie. "The effects of immunostimulation through dietary manipulation in the rainbow trout; evaluation of mucosal immunity." *Mar Biotechnol (NY)* 12 (2 2010): 88-99.
- Doyle, Siamsa M., et al. „A role for the auxin precursor anthranilic acid in root gravitropism via regulation of PIN-FORMED protein polarity and relocalization in *Arabidopsis*.“ *New Phytologist* (Wiley Online Library), 2019.
- Doyle, Siamsa M., et al. "An early secretory pathway mediated by GNOM-LIKE 1 and GNOM is essential for basal polarity establishment in *Arabidopsis thaliana*." *Proc Natl Acad Sci U S A* 112 (2 2015): E806--E815.
- Drdová, Edita Janková, et al. "The exocyst complex contributes to PIN auxin efflux carrier recycling and polar auxin transport in *Arabidopsis*." *Plant J* 73 (3 2013): 709-719.
- Drea, Sinéad, Paul Derbyshire, Rachil Koumproglou, Liam Dolan, John H. Doonan, and Peter Shaw. "In situ analysis of gene expression in plants." *Methods Mol Biol* 513 (2009): 229-242.
- Drelon, Coralie, et al. "Analysis of the role of Igf2 in adrenal tumour development in transgenic mouse models." *PLoS One* 7 (2012): e44171.
- Drelon, Coralie, et al. „PKA inhibits WNT signalling in adrenal cortex zonation and prevents malignant tumour development.“ *Nature communications* 7 (9 2016): 12751.
- Dreyer, Sandra D., et al. "Lmx1b expression during joint and tendon formation: localization and evaluation of potential downstream targets." *Gene Expr Patterns* 4 (7 2004): 397-405.
- Dufourcq, Pascale, and Sophie Vríz. "The chemokine SDF-1 regulates blastema formation during zebrafish fin regeneration." *Dev Genes Evol* 216 (10 2006): 635-639.

- Dufourcq, Pascale, Myriam Roussigné, Patrick Blader, Frédéric Rosa, Nadine Peyrieras, and Sophie Vriz. "Mechano-sensory organ regeneration in adults: the zebrafish lateral line as a model." *Mol Cell Neurosci* 33 (10 2006): 180-187.
- Dufourcq, Pascale, Sepand Rastegar, Uwe Strähle, and Patrick Blader. "Parapineal specific expression of *gf1* in the zebrafish epithalamus." *Gene Expr Patterns* 4 (1 2004): 53-57.
- Elipot, Yannick, Hélène Hinaux, Jacques Callebert, Jean-Marie Launay, Maryline Blin, and Sylvie Rétaux. "A mutation in the enzyme monoamine oxidase explains part of the *Astyanax* cavefish behavioural syndrome." *Nat Commun* 5 (2014): 3647.
- Elo, Teresa, et al. „Ectodysplasin target gene *Fgf20* regulates mammary bud growth and ductal invasion and branching during puberty.“ *Scientific reports* 7, Nr. 1 (7 2017): 5049.
- English, Milton A., et al. "Incomplete splicing, cell division defects, and hematopoietic blockage in *dhx8* mutant zebrafish." *Dev Dyn* 241 (5 2012): 879-889.
- Farreny, Marie-Amélie, et al. „FGF signaling controls *Shh*-dependent oligodendroglial fate specification in the ventral spinal cord.“ *Neural development* (BioMed Central) 13 (2018): 3.
- Feraru, Elena, et al. "BEX5/RabA1b regulates trans-Golgi network-to-plasma membrane protein trafficking in *Arabidopsis*." *Plant Cell* 24 (7 2012): 3074-3086.
- Ferjentsik, Zoltan, et al. "Notch is a critical component of the mouse somitogenesis oscillator and is essential for the formation of the somites." *PLoS Genet* 5 (9 2009): e1000662.
- Fierro-Constaín, Laura, et al. „In Situ Hybridization Techniques in the Homoscleromorph Sponge *Oscarella lobularis*.“ *Methods in molecular biology* (Clifton, N.J.) 2219 (2021): 181-194.
- Fierro-Constaín, Laura, et al. „The Conservation of the Germline Multipotency Program, from Sponges to Vertebrates: A Stepping Stone to Understanding the Somatic and Germline Origins.“ *Genome biology and evolution*, 1 2017.
- Fleming, Mitchell S., et al. „Functional divergence of thyrotropin beta-subunit paralogs gives new insights into salmon smoltification metamorphosis.“ *Scientific reports* 9, Nr. 1 (3 2019): 4561.
- Fliniaux, Ingrid, Marja L. Mikkola, Sylvie Lefebvre, and Irma Thesleff. "Identification of *dkk4* as a target of *Eda-A1/Edar* pathway reveals an unexpected role of ectodysplasin as inhibitor of Wnt signalling in ectodermal placodes." *Dev Biol* 320 (8 2008): 60-71.
- Fonouni-Farde, Camille, et al. "DELLA-mediated gibberellin signalling regulates Nod factor signalling and rhizobial infection." *Nat Commun* 7 (2016): 12636.
- Fontaine, Romain, Eirill Ager-Wick, Kjetil Hodne, und Finn-Arne Weltzien. „Plasticity of Lh cells caused by cell proliferation and recruitment of existing cells.“ *The Journal of endocrinology* 240, Nr. 2 (2 2019): 361-377.
- Fraguas, Susanna, Sara Barberán, and Francesc Cebriá. "EGFR signaling regulates cell proliferation, differentiation and morphogenesis during planarian regeneration and homeostasis." *Dev Biol* 354 (6 2011): 87-101.

- Fraguas, Susanna, Sara Barberán, Begoña Ibarra, Linda Stöger, and Francesc Cebriá. "Regeneration of neuronal cell types in *Schmidtea mediterranea*: an immunohistochemical and expression study." *Int J Dev Biol* 56 (2012): 143-153.
- Francis, Jeffrey C., Martin K. Thomsen, Makoto M. Taketo, and Amanda Swain. " $\beta$ -catenin is required for prostate development and cooperates with Pten loss to drive invasive carcinoma." *PLoS Genet* 9 (2013): e1003180.
- Frazzetto, Giovanni, Pamela Klingbeil, and Tewis Bouwmeester. "Xenopus marginal coil (Xmc), a novel FGF inducible cytosolic coiled-coil protein regulating gastrulation movements." *Mech Dev* 113 (4 2002): 3-14.
- Frei dit Frey, Nicolas, et al. "The RNA binding protein Tudor-SN is essential for stress tolerance and stabilizes levels of stress-responsive mRNAs encoding secreted proteins in *Arabidopsis*." *Plant Cell* 22 (5 2010): 1575-1591.
- Freter, Sabine, Yuko Muta, Siu-Shan Mak, Silke Rinkwitz, and Raj K. Ladher. "Progressive restriction of otic fate: the role of FGF and Wnt in resolving inner ear potential." *Development* 135 (10 2008): 3415-3424.
- Freytag, Csongor, et al. „Microcystin-LR, a cyanobacterial toxin affects root development by changing levels of PIN proteins and auxin response in *Arabidopsis* roots.“ *Chemosphere* (Elsevier), 2021: 130183.
- Friml, Jiří, et al. „A PINOID-dependent binary switch in apical-basal PIN polar targeting directs auxin efflux.“ *Science* (American Association for the Advancement of Science) 306 (2004): 862-865.
- Friml, Jiří, et al. "AtPIN4 mediates sink-driven auxin gradients and root patterning in *Arabidopsis*." *Cell* 108 (3 2002): 661-673.
- Friml, Jiří, Eva Benková, Ulrike Mayer, Klaus Palme, and Gerhard Muster. "Automated whole mount localisation techniques for plant seedlings." *Plant J* 34 (4 2003): 115-124.
- Gaamouche, Tarik, et al. "Cyclin-dependent kinase activity maintains the shoot apical meristem cells in an undifferentiated state." *Plant J* 64 (10 2010): 26-37.
- Gadeyne, Astrid, et al. "The TPLATE adaptor complex drives clathrin-mediated endocytosis in plants." *Cell* 156 (2 2014): 691-704.
- Gaiti, Federico, William L. Hatleberg, Miloš Tanurđžić, und Bernard M. Degnan. „Sponge Long Non-Coding RNAs Are Expressed in Specific Cell Types and Conserved Networks.“ *Non-coding RNA* 4, Nr. 1 (3 2018).
- Gajewski, Martin, et al. "Anterior and posterior waves of cyclic *her1* gene expression are differentially regulated in the presomitic mesoderm of zebrafish." *Development* 130 (9 2003): 4269-4278.
- Gajewski, Martin, Harun Elmasri, Manuel Girschick, Dirk Sieger, and Christoph Winkler. "Comparative analysis of *her* genes during fish somitogenesis suggests a mouse/chick-like mode of oscillation in medaka." *Dev Genes Evol* 216 (6 2006): 315-332.

- Gauchat, Dominique, et al. "The orphan COUP-TF nuclear receptors are markers for neurogenesis from cnidarians to vertebrates." *Dev Biol* 275 (11 2004): 104-123.
- Gautier, Aude, Anne-Sophie Goupil, Florence Le Gac, and Jean-Jacques Lareyre. "A promoter fragment of the *sycp1* gene is sufficient to drive transgene expression in male and female meiotic germ cells in zebrafish." *Biol Reprod* 89 (10 2013): 89.
- Gautier, Aude, Florence Le Gac, and Jean-Jacques Lareyre. "The *gsdf* gene locus harbors evolutionary conserved and clustered genes preferentially expressed in fish previtellogenic oocytes." *Gene* 472 (2 2011): 7-17.
- Gautier, Aude, Frédéric Sohm, Jean-Stéphane Joly, Florence Le Gac, and Jean-Jacques Lareyre. "The proximal promoter region of the zebrafish *gsdf* gene is sufficient to mimic the spatio-temporal expression pattern of the endogenous gene in Sertoli and granulosa cells." *Biol Reprod* 85 (12 2011): 1240-1251.
- Geetha-Loganathan, Poongodi, et al. "Expression of WNT signalling pathway genes during chicken craniofacial development." *Dev Dyn* 238 (5 2009): 1150-1165.
- Geetha-Loganathan, Poongodi, Suresh Nimmagadda, Ismail Hafez, Katherine Fu, Pieter R. Cullis, and Joy M. Richman. "Development of high-concentration lipoplexes for in vivo gene function studies in vertebrate embryos." *Dev Dyn* 240 (9 2011): 2108-2119.
- Geldner, N., J. Friml, Y. D. Stierhof, G. Jürgens, and K. Palme. "Auxin transport inhibitors block PIN1 cycling and vesicle trafficking." *Nature* 413 (9 2001): 425-428.
- Gemberling, Matthew, Ravi Karra, Amy L. Dickson, and Kenneth D. Poss. "Nrg1 is an injury-induced cardiomyocyte mitogen for the endogenous heart regeneration program in zebrafish." *Elife* 4 (2015).
- Gibb, Sarah, et al. "Interfering with Wnt signalling alters the periodicity of the segmentation clock." *Dev Biol* 330 (6 2009): 21-31.
- Glassford, William J., et al. "Co-option of an Ancestral Hox-Regulated Network Underlies a Recently Evolved Morphological Novelty." *Dev Cell*, 9 2015.
- Glauber, Kristine M., et al. "A small molecule screen identifies a novel compound that induces a homeotic transformation in Hydra." *Development* 140 (12 2013): 4788-4796.
- Gohin, M., P. Bodinier, A. Fostier, J. Bobe, and F. Chesnel. "Aromatase expression in *Xenopus* oocytes: a three cell-type model for the ovarian estradiol synthesis." *J Mol Endocrinol* 47 (10 2011): 241-250.
- Gohin, Maella, Pascal Bodinier, Alexis Fostier, Franck Chesnel, and Julien Bobe. "Aromatase is expressed and active in the rainbow trout oocyte during final oocyte maturation." *Mol Reprod Dev* 78 (7 2011): 510-518.
- Goldsmith, Matthew I., M. Kathryn Iovine, Thomas O'Reilly-Pol, and Stephen L. Johnson. "A developmental transition in growth control during zebrafish caudal fin development." *Dev Biol* 296 (8 2006): 450-457.

- Goldsmith, Matthew I., Shannon Fisher, Rick Waterman, and Stephen L. Johnson. "Saltatory control of isometric growth in the zebrafish caudal fin is disrupted in long fin and rapunzel mutants." *Dev Biol* 259 (7 2003): 303-317.
- Gómez-Marín, Carlos, et al. "Evolutionary comparison reveals that diverging CTCF sites are signatures of ancestral topological associating domains borders." *Proc Natl Acad Sci U S A*, 6 2015.
- Gonzalez-Gobartt, Elena, José Blanco-Ameijeiras, Susana Usieto, Guillaume Allio, Bertrand Benazeraf, und Elisa Martí. „Cell intercalation driven by SMAD3 underlies secondary neural tube formation.“ *Developmental cell* 56, Nr. 8 (4 2021): 1147--1163.e6.
- González-Sastre, Alejandro, Ma Dolores Molina, and Emili Saló. "Inhibitory Smads and bone morphogenetic protein (BMP) modulate anterior photoreceptor cell number during planarian eye regeneration." *Int J Dev Biol* 56 (2012): 155-163.
- González-Sastre, Alejandro, Nídia De Sousa, Teresa Adell, und Emili Saló. „The pioneer factor Smed-gata456-1 is required for gut cell differentiation and maintenance in planarians.“ *The International journal of developmental biology* 61, Nr. 1-2 (2017): 53-63.
- Gougnard, Nadège, et al. „Paracrine regulation of neural crest EMT by placodal MMP28.“ *bioRxiv* (Cold Spring Harbor Laboratory), 2021: 2020-11.
- Greer, Stephanie U., et al. „Genetic risk of cholangiocarcinoma is linked to the autophagy gene ATG7.“ *BioRxiv* (Cold Spring Harbor Laboratory), 2019: 836767.
- Grgic, Ivica, et al. "Translational Profiles of Medullary Myofibroblasts during Kidney Fibrosis." *J Am Soc Nephrol*, 4 2014.
- Grisendi, Silvia, et al. "Role of nucleophosmin in embryonic development and tumorigenesis." *Nature* 437 (9 2005): 147-153.
- Grones, Peter, et al. „Auxin-binding pocket of ABP1 is crucial for its gain-of-function cellular and developmental roles.“ *Journal of experimental botany* 66, Nr. 16 (8 2015): 5055-5065.
- Guérin, Adèle, et al. "Neurodevelopment genes in lampreys reveal trends for forebrain evolution in craniates." *PLoS One* 4 (2009): e5374.
- Guillomot, Michel, Annick Turbe, Isabelle Hue, and Jean-Paul Renard. "Staging of ovine embryos and expression of the T-box genes Brachyury and Eomesodermin around gastrulation." *Reproduction* 127 (4 2004): 491-501.
- Guo, Tingxia, Antoine H. F. M. Peters, und Phillip A. Newmark. „A Bruno-like gene is required for stem cell maintenance in planarians.“ *Developmental cell* 11, Nr. 2 (8 2006): 159-169.
- Gutiérrez-Gutiérrez, Óscar, et al. „Regeneration in starved planarians depends on TRiC/CCT subunits modulating the unfolded protein response.“ *EMBO reports* 22, Nr. 8 (8 2021): e52905.
- Häärä, Otso, et al. "Ectodysplasin regulates activator-inhibitor balance in murine tooth development through Fgf20 signaling." *Development* 139 (9 2012): 3189-3199.

- Häärä, Otso, Sayumi Fujimori, Ruth Schmidt-Ullrich, Christine Hartmann, Irma Thesleff, and Marja L. Mikkola. "Ectodysplasin and Wnt pathways are required for salivary gland branching morphogenesis." *Development* 138 (7 2011): 2681-2691.
- Hahn, K. L., et al. "A deficiency of lunatic fringe is associated with cystic dilation of the rete testis." *Reproduction* 137 (1 2009): 79-93.
- Haigh, J. J., H. P. Gerber, N. Ferrara, and E. F. Wagner. "Conditional inactivation of VEGF-A in areas of collagen2a1 expression results in embryonic lethality in the heterozygous state." *Development* 127 (4 2000): 1445-1453.
- Haines, Bryan P., and Peter W. J. Rigby. "Developmentally regulated expression of the LRRTM gene family during mid-gestation mouse embryogenesis." *Gene Expr Patterns* 7 (1 2007): 23-29.
- Haines, Bryan P., and Peter W. J. Rigby. "Expression of the Lingo/LERN gene family during mouse embryogenesis." *Gene Expr Patterns* 8 (1 2008): 79-86.
- Haines, Bryan P., Lee M. Wheldon, Dennis Summerbell, John K. Heath, and Peter W. J. Rigby. "Regulated expression of FLRT genes implies a functional role in the regulation of FGF signalling during mouse development." *Dev Biol* 297 (9 2006): 14-25.
- Haines, Bryan P., Rajeev Gupta, C. Michael Jones, Dennis Summerbell, and Peter W. J. Rigby. "The NLRR gene family and mouse development: Modified differential display PCR identifies NLRR-1 as a gene expressed in early somitic myoblasts." *Dev Biol* 281 (5 2005): 145-159.
- Halilagic, Aida, Vanessa Ribes, Norbert B. Ghyselinck, Maija H. Zile, Pascal Dollé, and Michèle Studer. "Retinoids control anterior and dorsal properties in the developing forebrain." *Dev Biol* 303 (3 2007): 362-375.
- Hall, Christopher J., et al. „Blocking fatty acid–fueled mROS production within macrophages alleviates acute gouty inflammation.“ *The Journal of clinical investigation (Am Soc Clin Investig)* 128 (2018).
- Hama, J., H. Xu, M. Goldfarb, and D. C. Weinstein. "SNT-1/FRS2alpha physically interacts with Laloo and mediates mesoderm induction by fibroblast growth factor." *Mech Dev* 109 (12 2001): 195-204.
- Hardy, Katharine M., Robert J. Garriock, Tatiana A. Yatskievych, Susan L. D'Agostino, Parker B. Antin, and Paul A. Krieg. "Non-canonical Wnt signaling through Wnt5a/b and a novel Wnt11 gene, Wnt11b, regulates cell migration during avian gastrulation." *Dev Biol* 320 (8 2008): 391-401.
- Hayes, Julie M., et al. "Identification of novel ciliogenesis factors using a new in vivo model for mucociliary epithelial development." *Dev Biol* 312 (12 2007): 115-130.
- Heg Lind, Mikael, Anna Cederberg, Jorge Aquino, Guilherme Lucas, Patrik Ernfors, and Sven Enerbäck. "Lack of the central nervous system- and neural crest-expressed forkhead gene Foxs1 affects motor function and body weight." *Mol Cell Biol* 25 (7 2005): 5616-5625.

- Hejátko, Jan, Ikram Blilou, Philip B. Brewer, Jiří Friml, Ben Scheres, and Eva Benková. "In situ hybridization technique for mRNA detection in whole mount Arabidopsis samples." *Nat Protoc* 1 (2006): 1939-1946.
- Henderson, Jordana M., Sean V. Nisperos, Joi Weeks, Mahjoobah Ghulam, Ignacio Marín, and Ricardo M. Zayas. "Identification of HECT E3 ubiquitin ligase family genes involved in stem cell regulation and regeneration in planarians." *Dev Biol*, 5 2015.
- Henke, Alexander, et al. "Stromal expression of decorin, Semaphorin6D, SPARC, Sprouty1 and Tsukushi in developing prostate and decreased levels of decorin in prostate cancer." *PLoS One* 7 (2012): e42516.
- Henrich, T., and J. Wittbrodt. "An in situ hybridization screen for the rapid isolation of differentially expressed genes." *Dev Genes Evol* 210 (1 2000): 28-33.
- Henrich, Thorsten, et al. "MEPD: a Medaka gene expression pattern database." *Nucleic Acids Res* 31 (1 2003): 72-74.
- Hensley, Monica R., et al. "Cellular expression of Smarca4 (Brg1)-regulated genes in zebrafish retinas." *BMC Dev Biol* 11 (2011): 45.
- Herlitze, Ines, Benjamin Marie, Frédéric Marin, und Daniel J. Jackson. „Molecular modularity and asymmetry of the molluscan mantle revealed by a gene expression atlas.“ *GigaScience* (Oxford University Press) 7 (2018): giy056.
- Higashihori, Norihisa, Marcela Buchtová, and Joy M. Richman. "The function and regulation of TBX22 in avian frontonasal morphogenesis." *Dev Dyn* 239 (2 2010): 458-473.
- Hinaux, Héléne, et al. "Lens defects in *Astyanax mexicanus* Cavefish: Evolution of crystallins and a role for alphaA-crystallin." *Dev Neurobiol*, 10 2014.
- Hinaux, Héléne, et al. „Sensory evolution in blind cavefish is driven by early embryonic events during gastrulation and neurulation.“ *Development (Cambridge, England)* 143, Nr. 23 (12 2016): 4521-4532.
- Hinaux, Héléne, Gaëlle Recher, Alexandre Alié, Laurent Legendre, Maryline Blin, und Sylvie Rétaux. „Lens apoptosis in the *Astyanax* blind cavefish is not triggered by its small size or defects in morphogenesis.“ *PloS one* 12, Nr. 2 (2017): e0172302.
- Hinfray, Nathalie, et al. „Dynamic and differential expression of the gonadal aromatase during the process of sexual differentiation in a novel transgenic cyp19a1a-eGFP zebrafish line.“ *General and Comparative Endocrinology* (Elsevier), 2017.
- Hirata, Hirokazu, et al. "ALCAM (CD166) is a surface marker for early murine cardiomyocytes." *Cells Tissues Organs* 184 (2006): 172-180.
- Hirata, Hirokazu, et al. "Coexpression of platelet-derived growth factor receptor alpha and fetal liver kinase 1 enhances cardiogenic potential in embryonic stem cell differentiation in vitro." *J Biosci Bioeng* 103 (5 2007): 412-419.



- Hodne, Kjetil, Romain Fontaine, Eirill Ager-Wick, und Finn-Arne Weltzien. „Gnrh1-induced responses are indirect in female medaka Fsh cells, generated through cellular networks.“ *Endocrinology*, 10 2019.
- Hoesel, Bastian, et al. "Combination of in silico and in situ hybridisation approaches to identify potential Dll1 associated miRNAs during mouse embryogenesis." *Gene Expr Patterns* 10 (9 2010): 265-273.
- Hofer, Katherine A., Raili Ruonala, and Victor A. Albert. "The double-corolla phenotype in the Hawaiian lobelioid genus *Clermontia* involves ectopic expression of PISTILLATA B-function MADS box gene homologs." *Evodevo* 3 (2012): 26.
- Hohagen, Jennifer, Ines Herlitze, und Daniel J. Jackson. „An optimised whole mount in situ hybridisation protocol for the mollusc *Lymnaea stagnalis*.“ *BMC Developmental Biology* (BioMed Central Ltd) 15 (2015): 19.
- Horn, Stefanie, Natalia Pabón-Mora, Vanessa Stefanie Theuß, Andrea Busch, and Sabine Zachgo. "Analysis of the CYC/TB1 class of TCP transcription factors in basal angiosperms and magnoliids." *Plant J*, 12 2014.
- Huang, Cheng-chen, Chin-Wei Huang, Yih-Shyun E. Cheng, and John Yu. "Histamine metabolism influences blood vessel branching in zebrafish reg6 mutants." *BMC Dev Biol* 8 (2008): 31.
- Huang, Cheng-Chen, Peng-Chi Chen, Chin-Wei Huang, and John Yu. "Aristolochic Acid induces heart failure in zebrafish embryos that is mediated by inflammation." *Toxicol Sci* 100 (12 2007): 486-494.
- Huang, Cheng-chen, Tai-Chuan Wang, Bo-Hung Lin, Yi-Wen Wang, Stephen L. Johnson, and John Yu. "Collagen IX is required for the integrity of collagen II fibrils and the regulation of vascular plexus formation in zebrafish caudal fins." *Dev Biol* 332 (8 2009): 360-370.
- Huang, H., S. S. Vogel, N. Liu, D. A. Melton, and S. Lin. "Analysis of pancreatic development in living transgenic zebrafish embryos." *Mol Cell Endocrinol* 177 (5 2001): 117-124.
- Hubert, Amy, et al. "A functional genomics screen identifies an Importin-alpha homolog as a regulator of stem cell function and tissue patterning during planarian regeneration." *BMC Genomics* 16 (2015): 769.
- Hubert, Amy, Jordana M. Henderson, Kelly G. Ross, Martis W. Cowles, Jessica Torres, and Ricardo M. Zayas. "Epigenetic regulation of planarian stem cells by the SET1/MLL family of histone methyltransferases." *Epigenetics* 8 (1 2013): 79-91.
- Hughes, Daniel S. T., Roger J. Keynes, and David Tannahill. "Extensive molecular differences between anterior- and posterior-half-sclerotomes underlie somite polarity and spinal nerve segmentation." *BMC Dev Biol* 9 (2009): 30.
- Huh, Sung-Ho, et al. "Fgf20 governs formation of primary and secondary dermal condensations in developing hair follicles." *Genes Dev* 27 (2 2013): 450-458.

- Hultman, Keith A., Nathan Bahary, Leonard I. Zon, and Stephen L. Johnson. "Gene Duplication of the zebrafish kit ligand and partitioning of melanocyte development functions to kit ligand a." *PLoS Genet* 3 (1 2007): e17.
- Hurný, Andrej, et al. „SYNERGISTIC ON AUXIN AND CYTOKININ 1 positively regulates growth and attenuates soil pathogen resistance.“ *Nature communications* 11, Nr. 1 (5 2020): 2170.
- Hyvärinen, Jaana, et al. "Deficiency of a transmembrane prolyl 4-hydroxylase in the zebrafish leads to basement membrane defects and compromised kidney function." *J Biol Chem* 285 (12 2010): 42023-42032.
- Iglesias, Marta, Maria Almuedo-Castillo, A. Aziz Aboobaker, and Emili Saló. "Early planarian brain regeneration is independent of blastema polarity mediated by the Wnt-beta-catenin pathway." *Dev Biol* 358 (10 2011): 68-78.
- Ihermann-Hella, Anneliis, et al. "Mitogen-activated protein kinase (MAPK) pathway regulates branching by remodeling epithelial cell adhesion." *PLoS Genet* 10 (3 2014): e1004193.
- Iimura, Akira, Fuhito Yamazaki, Toshiyasu Suzuki, Tatsuya Endo, Eisuke Nishida, und Morioh Kusakabe. „The E3 ubiquitin ligase Hace1 is required for early embryonic development in *Xenopus laevis*.“ *BMC developmental biology* 16, Nr. 1 (9 2016): 31.
- Inagaki, Sachi, et al. "Identification and expression analysis of putative mRNA-like non-coding RNA in *Drosophila*." *Genes Cells* 10 (12 2005): 1163-1173.
- Inoue, Shuji, Miki Inoue, Sayoko Fujimura, and Ryuichi Nishinakamura. "A mouse line expressing Sall1-driven inducible Cre recombinase in the kidney mesenchyme." *Genesis* 48 (3 2010): 207-212.
- Ishikawa, Aki, et al. "Mouse Nkd1, a Wnt antagonist, exhibits oscillatory gene expression in the PSM under the control of Notch signaling." *Mech Dev* 121 (12 2004): 1443-1453.
- Jackson, Daniel J. „Mantle Modularity Underlies the Plasticity of the Molluscan Shell: Supporting Data From , javax.xml.bind.JAXBElement@129d3c0, .“ *Frontiers in genetics* 12 (2021): 622400.
- Jackson, Daniel J., Ines Herlitze, and Jennifer Hohagen. "A Whole Mount In Situ Hybridization Method for the Gastropod Mollusc *Lymnaea stagnalis*." *J Vis Exp*, 2016.
- Jakobsen, Janus S., et al. "Temporal CHIP-on-chip reveals Biniou as a universal regulator of the visceral muscle transcriptional network." *Genes Dev* 21 (10 2007): 2448-2460.
- James, Martyn J., Elina Järvinen, Xiu-Ping Wang, and Irma Thesleff. "Different roles of Runx2 during early neural crest-derived bone and tooth development." *J Bone Miner Res* 21 (7 2006): 1034-1044.
- Ji, Hongtao, Shuangfeng Wang, Kexue Li, Dóra Szakonyi, Csaba Koncz, and Xia Li. "PRL1 modulates root stem cell niche activity and meristem size through WOX5 and PLTs in *Arabidopsis*." *Plant J* 81 (2 2015): 399-412.

- Jindrich, Katia, Kathrein E. Roper, Sussan Lemon, Bernard M. Degnan, Adam M. Reitzel, und Sandie M. Degnan. „Origin of the animal circadian clock: diurnal and light-entrained gene expression in the sponge *Amphimedon queenslandica*.“ *Frontiers in Marine Science* (Frontiers) 4 (2017): 327.
- Johnson, Winslow C., Alison J. Ordway, Masayoshi Watada, Jonathan N. Pruitt, Thomas M. Williams, and Mark Rebeiz. "Genetic Changes to a Transcriptional Silencer Element Confers Phenotypic Diversity within and between *Drosophila* Species." *PLoS Genet* 11 (6 2015): e1005279.
- Jokela, Heli, et al. "Hydroxysteroid (17beta) dehydrogenase 7 activity is essential for fetal de novo cholesterol synthesis and for neuroectodermal survival and cardiovascular differentiation in early mouse embryos." *Endocrinology* 151 (4 2010): 1884-1892.
- Juntheikki-Palovaara, Inka, et al. "Functional diversification of duplicated CYC2 clade genes in regulation of inflorescence development in *Gerbera hybrida* (Asteraceae)." *Plant J*, 6 2014.
- Jussila, Maria, Xenia Crespo Yanez, and Irma Thesleff. "Initiation of teeth from the dental lamina in the ferret." *Differentiation* 87 (2014): 32-43.
- Juuri, Emma, et al. "Sox2 marks epithelial competence to generate teeth in mammals and reptiles." *Development* 140 (4 2013): 1424-1432.
- Kaku, Yusuke, et al. "Islet1 deletion causes kidney agenesis and hydroureter resembling CAKUT." *J Am Soc Nephrol* 24 (7 2013): 1242-1249.
- Kamaid, Andrés, Joana Neves, and Fernando Giráldez. "Id gene regulation and function in the prosensory domains of the chicken inner ear: a link between Bmp signaling and Atoh1." *J Neurosci* 30 (8 2010): 11426-11434.
- Kangas, Aapo T., Alistair R. Evans, Irma Thesleff, and Jukka Jernvall. "Nonindependence of mammalian dental characters." *Nature* 432 (11 2004): 211-214.
- Kania, Urszula, et al. „The Inhibitor Endosidin 4 Targets SEC7 Domain-Type ARF GTPase Exchange Factors and Interferes with Subcellular Trafficking in Eukaryotes.“ *The Plant Cell* (Am Soc Plant Biol) 30 (2018): 2553-2572.
- Karampelias, Michael, et al. "ROTUNDA3 function in plant development by phosphatase 2A-mediated regulation of auxin transporter recycling." *Proc Natl Acad Sci U S A*, 2 2016.
- Karnahl, Matthias, Misoon Park, Ulrike Mayer, Ulrike Hiller, und Gerd Jürgens. „ER assembly of SNARE complexes mediating formation of partitioning membrane in *Arabidopsis* cytokinesis.“ *eLife* 6 (5 2017).
- Karra, Ravi, Anne K. Knecht, Kazu Kikuchi, and Kenneth D. Poss. "Myocardial NF-κB activation is essential for zebrafish heart regeneration." *Proc Natl Acad Sci U S A*, 10 2015.
- Kerosuo, Laura, et al. "CIP2A increases self-renewal and is linked to Myc in neural progenitor cells." *Differentiation* 80 (7 2010): 68-77.

- Kimura, T., et al. "Large-scale isolation of ESTs from medaka embryos and its application to medaka developmental genetics." *Mech Dev* 121 (7 2004): 915-932.
- King, Ryan S., und Phillip A. Newmark. „In situ hybridization protocol for enhanced detection of gene expression in the planarian *Schmidtea mediterranea*." *BMC developmental biology* (BioMed Central) 13 (2013): 8.
- Kizil, Caghan, et al. "Regenerative neurogenesis from neural progenitor cells requires injury-induced expression of Gata3." *Dev Cell* 23 (12 2012): 1230-1237.
- Kizil, Caghan, et al. "Simplex/Fam53b is required for Wnt signal transduction by regulating beta-catenin nuclear localization." *Development* 141 (9 2014): 3529-3539.
- Kleine-Vehn, Jürgen, et al. "Recycling, clustering, and endocytosis jointly maintain PIN auxin carrier polarity at the plasma membrane." *Mol Syst Biol* 7 (2011): 540.
- Koivuniemi, Raili, et al. "Hepatocyte growth factor activator inhibitor-1 is induced by bone morphogenetic proteins and regulates proliferation and cell fate of neural progenitor cells." *PLoS One* 8 (2013): e56117.
- Kokubo, Hiroki, Sachiko Miyagawa-Tomita, Makoto Nakazawa, Yumiko Saga, and Randy L. Johnson. "Mouse *hesr1* and *hesr2* genes are redundantly required to mediate Notch signaling in the developing cardiovascular system." *Dev Biol* 278 (2 2005): 301-309.
- Kokubo, Hiroki, Sachiko Tomita-Miyagawa, Yoshio Hamada, and Yumiko Saga. "Hesr1 and Hesr2 regulate atrioventricular boundary formation in the developing heart through the repression of *Tbx2*." *Development* 134 (2 2007): 747-755.
- Koudijs, Marco J., et al. "The zebrafish mutants *dre*, *uki*, and *lep* encode negative regulators of the hedgehog signaling pathway." *PLoS Genet* 1 (8 2005): e19.
- Kratochwil, Klaus, Juan Galceran, Sabine Tontsch, Wera Roth, and Rudolf Grosschedl. "FGF4, a direct target of LEF1 and Wnt signaling, can rescue the arrest of tooth organogenesis in *Lef1(-/-)* mice." *Genes Dev* 16 (12 2002): 3173-3185.
- Krause, Ange, et al. "Tbx5 and Tbx4 transcription factors interact with a new chicken PDZ-LIM protein in limb and heart development." *Dev Biol* 273 (9 2004): 106-120.
- Kuhn, Benjamin M., et al. „Flavonol-induced changes in PIN2 polarity and auxin transport in the *Arabidopsis thaliana* *rol1-2* mutant require phosphatase activity." *Scientific reports* 7 (2 2017): 41906.
- Kuijter, Hendrik N. J., et al. „Transcript Profiling of MIKCC MADS-Box Genes Reveals Conserved and Novel Roles in Barley Inflorescence Development." *Frontiers in plant science* 12 (2021): 705286.
- Kulkarni, Arpita, und Cassandra G. Extavour. „The Cricket *Gryllus bimaculatus*: Techniques for Quantitative and Functional Genetic Analyses of Cricket Biology." *Results and problems in cell differentiation* 68 (2019): 183-216.

- Kuo, Ming-Wei, et al. "A novel puf-A gene predicted from evolutionary analysis is involved in the development of eyes and primordial germ-cells." *PLoS One* 4 (2009): e4980.
- Kuure, Satu, Anna Popsueva, Madis Jakobson, Kirsi Sainio, and Hannu Sariola. "Glycogen synthase kinase-3 inactivation and stabilization of beta-catenin induce nephron differentiation in isolated mouse and rat kidney mesenchymes." *J Am Soc Nephrol* 18 (4 2007): 1130-1139.
- Kuure, Satu, et al. "Crosstalk between Jagged1 and GDNF/Ret/GFRalpha1 signalling regulates ureteric budding and branching." *Mech Dev* 122 (6 2005): 765-780.
- Ladher, Raj K., Paul O'Neill, and Jo Begbie. "From shared lineage to distinct functions: the development of the inner ear and epibranchial placodes." *Development* 137 (6 2010): 1777-1785.
- Lagman, David, Ilkin E. Franzén, Joel Eggert, Dan Larhammar, and Xesús M. Abalo. "Evolution and expression of the phosphodiesterase 6 genes unveils vertebrate novelty to control photosensitivity." *BMC Evol Biol* 16 (2016): 124.
- Lambert-Langlais, Sarah, et al. "A transgenic mouse line with specific Cre recombinase expression in the adrenal cortex." *Mol Cell Endocrinol* 300 (3 2009): 197-204.
- Lan, Tianying, and Victor A. Albert. "Dynamic distribution patterns of ribosomal DNA and chromosomal evolution in Paphiopedilum, a lady's slipper orchid." *BMC Plant Biol* 11 (2011): 126.
- Landemaine, Aurélie, et al. „Trout myomaker contains 14 minisatellites and two sequence extensions, but retains fusogenic function.“ *Journal of Biological Chemistry (ASBMB)*, 2019: jbc--RA118.
- Landemaine, Aurélie, Pierre-Yves Rescan, and Jean-Charles Gabillard. "Myomaker mediates fusion of fast myocytes in zebrafish embryos." *Biochem Biophys Res Commun* 451 (9 2014): 480-484.
- Landgren, Henrik, and Peter Carlsson. "FoxJ3, a novel mammalian forkhead gene expressed in neuroectoderm, neural crest, and myotome." *Dev Dyn* 231 (10 2004): 396-401.
- Lange, Anika, Sara A. Wickström, Madis Jakobson, Roy Zent, Kirsi Sainio, and Reinhard Fässler. "Integrin-linked kinase is an adaptor with essential functions during mouse development." *Nature* 461 (10 2009): 1002-1006.
- Lapébie, Pascal, et al. "Differential responses to Wnt and PCP disruption predict expression and developmental function of conserved and novel genes in a cnidarian." *PLoS Genet* 10 (9 2014): e1004590.
- Laugel-Haushalter, Virginie, et al. "RSK2 is a modulator of craniofacial development." *PLoS One* 9 (2014): e84343.
- Laurikkala, Johanna, Marja L. Mikkola, Martyn James, Mark Tummers, Alea A. Mills, and Irma Thesleff. "p63 regulates multiple signalling pathways required for ectodermal organogenesis and differentiation." *Development* 133 (4 2006): 1553-1563.

- Lee, Sang-Hwy, Olivier Bédard, Marcela Buchtová, Katherine Fu, and Joy M. Richman. "A new origin for the maxillary jaw." *Dev Biol* 276 (12 2004): 207-224.
- Leguen, Isabelle, Aurélie Le Cam, Jérôme Montfort, Sandrine Peron, and Alain Fautrel. "Transcriptomic Analysis of Trout Gill Ionocytes in Fresh Water and Sea Water Using Laser Capture Microdissection Combined with Microarray Analysis." *PLoS One* 10 (2015): e0139938.
- Leinonen, Henri, et al. "Lack of P4H-TM in mice results in age-related retinal and renal alterations." *Hum Mol Genet*, 7 2016.
- Leve, C., M. Gajewski, K. B. Rohr, and D. Tautz. "Homologues of c-hairy1 (her9) and lunatic fringe in zebrafish are expressed in the developing central nervous system, but not in the presomitic mesoderm." *Dev Genes Evol* 211 (10 2001): 493-500.
- Lewandowski, Jordan P., et al. "Spatiotemporal regulation of GLI target genes in the mammalian limb bud." *Dev Biol*, 7 2015.
- Li, Gang, et al. „MADS1 maintains barley spike morphology at high ambient temperatures.“ *Nature plants*, 6 2021.
- Li, Hongjiang, et al. „Cellular requirements for PIN polar cargo clustering in Arabidopsis thaliana.“ *The New phytologist* 229, Nr. 1 (1 2021): 351-369.
- Lin, Song-Chang, et al. "Endogenous retinoic acid regulates cardiac progenitor differentiation." *Proc Natl Acad Sci U S A* 107 (5 2010): 9234-9239.
- Lippens, S., et al. "Keratinocyte-specific ablation of the NF-kappaB regulatory protein A20 (TNFAIP3) reveals a role in the control of epidermal homeostasis." *Cell Death Differ* 18 (12 2011): 1845-1853.
- Liu, Qinsong, et al. „Vacuole Integrity Maintained by DUF300 Proteins Is Required for Brassinosteroid Signaling Regulation.“ *Molecular plant* 11, Nr. 4 (4 2018): 553-567.
- Liu, Sisi, et al. "Celecoxib reduces glucocorticoids in vitro and in a mouse model with adrenocortical hyperplasia." *Endocr Relat Cancer* 23 (1 2016): 15-25.
- Liu, Yang, et al. „Changes throughout a Genetic Network Mask the Contribution of Hox Gene Evolution.“ *Current biology : CB*, 6 2019.
- Lobjois, Valérie, Bertrand Benazeraf, Nicolas Bertrand, François Medevielle, and Fabienne Pituello. "Specific regulation of cyclins D1 and D2 by FGF and Shh signaling coordinates cell cycle progression, patterning, and differentiation during early steps of spinal cord development." *Dev Biol* 273 (9 2004): 195-209.
- Loebel, David A. F., Angelyn C. C. Hor, Heidi K. Bildsoe, and Patrick P. L. Tam. "Timed deletion of twist1 in the limb bud reveals age-specific impacts on autopod and zeugopod patterning." *PLoS One* 9 (2014): e98945.

- Loebel, David A. F., Bonny Tsoi, Nicole Wong, Meredith P. O'Rourke, and Patrick P. L. Tam. "Restricted expression of ETn-related sequences during post-implantation mouse development." *Gene Expr Patterns* 4 (7 2004): 467-471.
- Loebel, David A. F., et al. "Regionalized Twist1 activity in the forelimb bud drives the morphogenesis of the proximal and preaxial skeleton." *Dev Biol* 362 (2 2012): 132-140.
- Loebel, David A. F., et al. "Rho maintains the epithelial architecture and facilitates differentiation of the foregut endoderm." *Development* 138 (10 2011): 4511-4522.
- Löfke, Christian, Marta Zwiewka, Ingo Heilmann, Marc C. E. Van Montagu, Thomas Teichmann, and Jirí Friml. „Asymmetric gibberellin signaling regulates vacuolar trafficking of PIN auxin transporters during root gravitropism.“ *Proceedings of the National Academy of Sciences of the United States of America* 110, Nr. 9 (2 2013): 3627-3632.
- Lopes, Miguel, Olivier Goupille, Cécile Saint Clément, Yvan Lallemand, Ana Cumano, and Benoît Robert. "Msx genes define a population of mural cell precursors required for head blood vessel maturation." *Development* 138 (7 2011): 3055-3066.
- Lou, Haoyu, et al. „The cellulose synthase-like F3 (CslF3) gene mediates cell wall polysaccharide synthesis and affects root growth and differentiation in barley.“ *The Plant Journal : for cell and molecular biology* 110, Nr. 6 (6 2022): 1681-1699.
- Lucas, Mikaël, et al. "Short-Root regulates primary, lateral, and adventitious root development in Arabidopsis." *Plant Physiol* 155 (1 2011): 384-398.
- Lutek, Keegan, Rasmeet Singh Dhaliwal, Terence J. Van Raay, und Andreas Heyland. „Sea urchin histamine receptor 1 regulates programmed cell death in larval Strongylocentrotus purpuratus.“ *Scientific reports* 8, Nr. 1 (3 2018): 4002.
- Machka, C., et al. "Identification of Dll1 (Delta1) target genes during mouse embryogenesis using differential expression profiling." *Gene Expr Patterns* 6 (12 2005): 94-101.
- Magne, Kevin, et al. „MtNODULE ROOT1 and MtNODULE ROOT2 are essential for indeterminate nodule identity.“ *Plant physiology (Am Soc Plant Biol)* 178 (2018): 295-316.
- Mandalos, Nikolaos, et al. "Sox2 acts as a rheostat of epithelial to mesenchymal transition during neural crest development." *Front Physiol* 5 (2014): 345.
- Marandel, Lucie, Catherine Labbe, Julien Bobe, and Pierre-Yves Le Bail. "Evolutionary history of c-myc in teleosts and characterization of the duplicated c-myca genes in goldfish embryos." *Mol Reprod Dev* 79 (2 2012): 85-96.
- Marandel, Lucie, Catherine Labbe, Julien Bobe, and Pierre-Yves Le Bail. "nanog 5'-upstream sequence, DNA methylation, and expression in gametes and early embryo reveal striking differences between teleosts and mammals." *Gene* 492 (1 2012): 130-137.
- Marandel, Lucie, Catherine Labbe, Julien Bobe, Hélène Jammes, Jean-Jaques Lareyre, and Pierre-Yves Le Bail. "Do not put all teleosts in one net: focus on the sox2 and pou2 genes." *Comp Biochem Physiol B Biochem Mol Biol* 164 (2 2013): 69-79.



- Marhava, P., et al. „A molecular rheostat adjusts auxin flux to promote root protophloem differentiation.“ *Nature* 558, Nr. 7709 (6 2018): 297-300.
- Marhava, Petra, et al. „Plasma Membrane Domain Patterning and Self-Reinforcing Polarity in Arabidopsis.“ *Developmental cell*, 12 2019.
- Mariappan, Devi, et al. "Somitovasculin, a novel endothelial-specific transcript involved in the vasculature development." *Arterioscler Thromb Vasc Biol* 29 (11 2009): 1823-1829.
- Marivin, Elisa, et al. „Sex hormone-binding globulins characterization and gonadal gene expression during sex differentiation in the rainbow trout, *Oncorhynchus mykiss*.“ *Molecular reproduction and development* (Wiley Online Library) 81 (2014): 757-765.
- Martín-Durán, José María, and Rafael Romero. "Evolutionary implications of morphogenesis and molecular patterning of the blind gut in the planarian *Schmidtea polychroa*." *Dev Biol* 352 (4 2011): 164-176.
- Martín-Durán, José María, Francisco Monjo, and Rafael Romero. "Morphological and molecular development of the eyes during embryogenesis of the freshwater planarian *Schmidtea polychroa*." *Development Genes and Evolution* 222 (3 2012): 45-54.
- Martín-López, Eduardo, Albert Blanchart, Juan A. De Carlos, and Laura López-Mascaraque. "Dab1 (Disable homolog-1) reelin adaptor protein is overexpressed in the olfactory bulb at early postnatal stages." *PLoS One* 6 (2011): e26673.
- Massey, Jonathan H., et al. „Co-evolving wing spots and mating displays are genetically separable traits in *Drosophila*.“ *Evolution; international journal of organic evolution* 74, Nr. 6 (6 2020): 1098-1111.
- Matamoros, Manuel A., et al. "Function of glutathione peroxidases in legume root nodules." *J Exp Bot*, 3 2015.
- Maubert, Elise, et al. „Relevance of the combination of external beam radiotherapy with the hypoxia-activated prodrug ICF05016 in an experimental model of extraskeletal myxoid chondrosarcoma.“ *Investigational New Drugs* (Springer), 2020: 1-9.
- Maule, Andrew J., and Zoltán Havelda. "In situ detection of plant viruses and virus-specific products." *Methods Mol Biol* 451 (2008): 201-216.
- McDougall, Carmel, Ben J. Woodcroft, und Bernard M. Degnan. „The Widespread Prevalence and Functional Significance of Silk-Like Structural Proteins in Metazoan Biological Materials.“ *PLoS one* 11, Nr. 7 (2016): e0159128.
- McGaugh, Suzanne E., et al. "The cavefish genome reveals candidate genes for eye loss." *Nat Commun* 5 (2014): 5307.
- Mella-Alvarado, Vanessa, Aude Gautier, Florence Le Gac, and Jean-Jacques Lareyre. "Tissue and cell-specific transcriptional activity of the human cytomegalovirus immediate early gene promoter (UL123) in zebrafish." *Gene Expr Patterns* 13 (2013): 91-103.

- Mellgren, Eve M., and Stephen L. Johnson. "A requirement for kit in embryonic zebrafish melanocyte differentiation is revealed by melanoblast delay." *Dev Genes Evol* 214 (10 2004): 493-502.
- Mellgren, Eve M., and Stephen L. Johnson. "kitb, a second zebrafish ortholog of mouse Kit." *Dev Genes Evol* 215 (9 2005): 470-477.
- Memczak, Sebastian, et al. "Circular RNAs are a large class of animal RNAs with regulatory potency." *Nature* 495 (3 2013): 333-338.
- Menuet, Arnaud, Alessandro Alunni, Jean-Stéphane Joly, William R. Jeffery, and Sylvie Rétaux. "Expanded expression of Sonic Hedgehog in *Astyanax* cavefish: multiple consequences on forebrain development and evolution." *Development* 134 (3 2007): 845-855.
- Mesnard, Daniel, and Daniel B. Constam. "Imaging proprotein convertase activities and their regulation in the implanting mouse blastocyst." *J Cell Biol* 191 (10 2010): 129-139.
- Mesnard, Daniel, Marcela Guzman-Ayala, and Daniel B. Constam. "Nodal specifies embryonic visceral endoderm and sustains pluripotent cells in the epiblast before overt axial patterning." *Development* 133 (7 2006): 2497-2505.
- Mesnard, Daniel, Martyn Donnison, Christophe Fuerer, Peter L. Pfeffer, and Daniel B. Constam. "The microenvironment patterns the pluripotent mouse epiblast through paracrine Furin and Pace4 proteolytic activities." *Genes Dev* 25 (9 2011): 1871-1880.
- Mikloska, Kristina V., Zoe A. Zrini, und Nicholas J. Bernier. „Severe hypoxia exposure inhibits larval brain development but does not affect the capacity to mount a cortisol stress response in zebrafish.“ *The Journal of experimental biology* 225, Nr. 2 (1 2022).
- Miljkovic-Licina, Marijana, Simona Chera, Luiza Ghila, and Brigitte Galliot. "Head regeneration in wild-type hydra requires de novo neurogenesis." *Development* 134 (3 2007): 1191-1201.
- Miyatake, Koichi, Morioh Kusakabe, Chika Takahashi, and Eisuke Nishida. "ERK7 regulates ciliogenesis by phosphorylating the actin regulator CapZIP in cooperation with Dishevelled." *Nat Commun* 6 (2015): 6666.
- Molenaar, M., J. Roose, J. Peterson, S. Venanzi, H. Clevers, and O. Destrée. „Differential expression of the HMG box transcription factors XTcf-3 and Xlcf-1 during early xenopus development.“ *Mechanisms of development* 75, Nr. 1-2 (7 1998): 151-154.
- Molina, M. Dolores, Ana Neto, Ignacio Maeso, José Luis Gómez-Skarmeta, Emili Saló, and Francesc Cebriá . "Noggin and noggin-like genes control dorsoventral axis regeneration in planarians." *Curr Biol* 21 (2 2011): 300-305.
- Monestier, Olivier, Aurelie Landemaine, Jerome Bugeon, Pierre-Yves Rescan, und Jean-Charles Gabillard. „Naa15 knockdown enhances c2c12 myoblast fusion and induces defects in zebrafish myotome morphogenesis.“ *bioRxiv* (Cold Spring Harbor Laboratory), 2018: 306563.
- Monjo, Francisco, and Rafael Romero. "Embryonic development of the nervous system in the planarian *Schmidtea polychroa*." *Dev Biol* 397 (1 2015): 305-319.

- Montgomery, Sean Akira, et al. „Polycomb-mediated repression of paternal chromosomes maintains haploid dosage in diploid embryos of , javax.xml.bind.JAXBElement@b76472, ." *eLife* 11 (8 2022).
- Moriguchi, Tetsuo, Keiko Haraguchi, Naoko Ueda, Masato Okada, Toshio Furuya, and Tetsu Akiyama. "DREG, a developmentally regulated G protein-coupled receptor containing two conserved proteolytic cleavage sites." *Genes Cells* 9 (6 2004): 549-560.
- Morinaga, Chikako, et al. "Mutations affecting gonadal development in Medaka, *Oryzias latipes*." *Mech Dev* 121 (7 2004): 829-839.
- Morita, Kazumasa, Cristina Lo Celso, Bradley Spencer-Dene, Christos C. Zouboulis, and Fiona M. Watt. "HAN11 binds mDia1 and controls GLI1 transcriptional activity." *J Dermatol Sci* 44 (10 2006): 11-20.
- Morkmued, Supawich, et al. „Retinoic Acid Excess Impairs Amelogenesis Inducing Enamel Defects.“ *Frontiers in physiology* 7 (2016): 673.
- Mravec, Jozef, et al. "Subcellular homeostasis of phytohormone auxin is mediated by the ER-localized PIN5 transporter." *Nature* 459 (6 2009): 1136-1140.
- Müller, Ralf, Andrea Bleckmann, and Rüdiger Simon. "The receptor kinase CORYNE of Arabidopsis transmits the stem cell-limiting signal CLAVATA3 independently of CLAVATA1." *Plant Cell* 20 (4 2008): 934-946.
- Müller, Ralf, Lorenzo Borghi, Dorota Kwiatkowska, Patrick Laufs, and Rüdiger Simon. "Dynamic and compensatory responses of Arabidopsis shoot and floral meristems to CLV3 signaling." *Plant Cell* 18 (5 2006): 1188-1198.
- Munne, Pauliina M., Mark Tummers, Elina Järvinen, Irma Thesleff, and Jukka Jernvall. "Tinkering with the inductive mesenchyme: Sostdc1 uncovers the role of dental mesenchyme in limiting tooth induction." *Development* 136 (2 2009): 393-402.
- Munne, Pauliina M., Szabolcs Felszeghy, Maria Jussila, Marika Suomalainen, Irma Thesleff, and Jukka Jernvall. "Splitting placodes: effects of bone morphogenetic protein and Activin on the patterning and identity of mouse incisors." *Evol Dev* 12 (2010): 383-392.
- Murgiano, Leonardo, et al. "Hairless Streaks in Cattle Implicate TSR2 in Early Hair Follicle Formation." *PLoS Genet* 11 (7 2015): e1005427.
- Mustonen, Tuija, et al. "Ectodysplasin A1 promotes placodal cell fate during early morphogenesis of ectodermal appendages." *Development* 131 (10 2004): 4907-4919.
- Mustonen, Tuija, et al. "Stimulation of ectodermal organ development by Ectodysplasin-A1." *Dev Biol* 259 (7 2003): 123-136.
- Nagai, Hiroki, Siu-Shan Mak, Wei Weng, Yukiko Nakaya, Raj Ladher, and Guojun Sheng. "Embryonic development of the emu, *Dromaius novaehollandiae*." *Dev Dyn* 240 (1 2011): 162-175.

- Nagandla, Harika, et al. "Defective myogenesis in the absence of the muscle-specific lysine methyltransferase SMYD1." *Dev Biol* 410 (2 2016): 86-97.
- Nakajima, Yoshiro, Mitsuru Morimoto, Yuki Takahashi, Haruhiko Koseki, and Yumiko Saga. "Identification of Epha4 enhancer required for segmental expression and the regulation by Mesp2." *Development* 133 (7 2006): 2517-2525.
- Naramoto, Satoshi, et al. "ADP-ribosylation factor machinery mediates endocytosis in plant cells." *Proc Natl Acad Sci U S A* 107 (12 2010): 21890-21895.
- Naramoto, Satoshi, et al. "Insights into the localization and function of the membrane trafficking regulator GNOM ARF-GEF at the Golgi apparatus in Arabidopsis." *Plant Cell* 26 (7 2014): 3062-3076.
- Narasimhan, Madhumitha, et al. „Systematic analysis of specific and nonspecific auxin effects on endocytosis and trafficking.“ *Plant physiology*, 3 2021.
- Närhi, Katja, Elina Järvinen, Walter Birchmeier, Makoto M. Taketo, Marja L. Mikkola, and Irma Thesleff. "Sustained epithelial beta-catenin activity induces precocious hair development but disrupts hair follicle down-growth and hair shaft formation." *Development* 135 (3 2008): 1019-1028.
- Nasrallah, I., and J. A. Golden. "Brain, eye, and face defects as a result of ectopic localization of Sonic hedgehog protein in the developing rostral neural tube." *Teratology* 64 (8 2001): 107-113.
- Navajas Acedo, Joaquin, et al. „PCP and Wnt pathway components act in parallel during zebrafish mechanosensory hair cell orientation.“ *Nature communications* 10, Nr. 1 (9 2019): 3993.
- Neves, Joana, Carolina Parada, Mireia Chamizo, and Fernando Giráldez. "Jagged 1 regulates the restriction of Sox2 expression in the developing chicken inner ear: a mechanism for sensory organ specification." *Development* 138 (2 2011): 735-744.
- Nicol, B., A. Yano, E. Jouanno, A. Guérin, A. Fostier, and Y. Guiguen. "Follistatin is an early player in rainbow trout ovarian differentiation and is both colocalized with aromatase and regulated by the wnt pathway." *Sex Dev* 7 (2013): 267-276.
- Nicol, B., and Yann Guiguen. "Expression profiling of Wnt signaling genes during gonadal differentiation and gametogenesis in rainbow trout." *Sex Dev* 5 (2011): 318-329.
- Nicol, Barbara, Adele Guerin, Alexis Fostier, and Yann Guiguen. „Ovary-predominant wnt4 expression during gonadal differentiation is not conserved in the rainbow trout (*Oncorhynchus mykiss*).“ *Molecular reproduction and development* (Wiley Online Library) 79 (2012): 51-63.
- Nimmagadda, Suresh, et al. "Identification and functional analysis of novel facial patterning genes in the duplicated beak chicken embryo." *Dev Biol*, 9 2015.
- Nodzyński, Tomasz, Steffen Vanneste, Marta Zwiewka, Markéta Pernisová, Jan Hejátko, and Jiří Friml. „Enquiry into the Topology of Plasma Membrane-Localized PIN Auxin Transport Components.“ *Molecular plant* 9, Nr. 11 (11 2016): 1504-1519.

- Noiret, Maud, et al. "Ptbp1 and Exosc9 knockdowns trigger skin stability defects through different pathways." *Dev Biol*, 11 2015.
- Oginuma, Masayuki, Tatsumi Hirata, and Yumiko Saga. "Identification of presomitic mesoderm (PSM)-specific Mesp1 enhancer and generation of a PSM-specific Mesp1/Mesp2-null mouse using BAC-based rescue technology." *Mech Dev* 125 (2008): 432-440.
- Oginuma, Masayuki, Yasutaka Niwa, Deborah L. Chapman, and Yumiko Saga. "Mesp2 and Tbx6 cooperatively create periodic patterns coupled with the clock machinery during mouse somitogenesis." *Development* 135 (8 2008): 2555-2562.
- Ohmori, Tomoko, Shunsuke Tanigawa, Yusuke Kaku, Sayoko Fujimura, and Ryuichi Nishinakamura. "Sall1 in renal stromal progenitors non-cell autonomously restricts the excessive expansion of nephron progenitors." *Sci Rep* 5 (2015): 15676.
- Okamura, Daiji, et al. "REST and its downstream molecule Mek5 regulate survival of primordial germ cells." *Dev Biol* 372 (12 2012): 190-202.
- Okamura, Yoshiaki, and Yumiko Saga. "Pofut1 is required for the proper localization of the Notch receptor during mouse development." *Mech Dev* 125 (8 2008): 663-673.
- Ola, Roxana, et al. "The GDNF target Vsnl1 marks the ureteric tip." *J Am Soc Nephrol* 22 (2 2011): 274-284.
- Ola, Roxana, Sylvie Lefebvre, Karl-Heinz Braunewell, Kirsi Sainio, and Hannu Sariola. "The expression of Visinin-like 1 during mouse embryonic development." *Gene Expr Patterns* 12 (2012): 53-62.
- Olivera-Martinez, Isabel, and Kate G. Storey. "Wnt signals provide a timing mechanism for the FGF-retinoid differentiation switch during vertebrate body axis extension." *Development* 134 (6 2007): 2125-2135.
- Olivera-Martinez, Isabel, Hidekiyo Harada, Pamela A. Halley, and Kate G. Storey. "Loss of FGF-dependent mesoderm identity and rise of endogenous retinoid signalling determine cessation of body axis elongation." *PLoS Biol* 10 (2012): e1001415.
- Olson, Peter D., et al. „Complete representation of a tapeworm genome reveals chromosomes capped by centromeres, necessitating a dual role in segregation and protection.“ *BMC biology* 18, Nr. 1 (11 2020): 165.
- Ong, Ta-Hsuan, et al. "Mass Spectrometry Imaging and Identification of Peptides Associated with Cephalic Ganglia Regeneration in *Schmidtea mediterranea*." *J Biol Chem*, 2 2016.
- Ormestad, Mattias, et al. "Foxf1 and Foxf2 control murine gut development by limiting mesenchymal Wnt signaling and promoting extracellular matrix production." *Development* 133 (3 2006): 833-843.
- Orr, Brigid, et al. "Expression of pleiotrophin in the prostate is androgen regulated and it functions as an autocrine regulator of mesenchyme and cancer associated fibroblasts and as a paracrine regulator of epithelia." *Prostate* 71 (2 2011): 305-317.

- Orr, Brigid, O. Cathal Grace, Griet Vanpoucke, George R. Ashley, and Axel A. Thomson. "A role for notch signaling in stromal survival and differentiation during prostate development." *Endocrinology* 150 (1 2009): 463-472.
- Oviedo, Néstor J., Phillip A. Newmark, and Alejandro Sánchez Alvarado. "Allometric scaling and proportion regulation in the freshwater planarian *Schmidtea mediterranea*." *Dev Dyn* 226 (2 2003): 326-333.
- Owlarn, Suthira, et al. „Generic wound signals initiate regeneration in missing-tissue contexts.“ *Nature communications* (Nature Publishing Group) 8 (2017): 2282.
- Pan, Qiaowei, et al. „Identification of the master sex determining gene in Northern pike (*Esox lucius*) reveals restricted sex chromosome differentiation.“ *BioRxiv* (Cold Spring Harbor Laboratory), 2019: 549527.
- Paponov, Ivan A., et al. „Auxin-induced plasma membrane depolarization is regulated by auxin transport and not by AUXIN BINDING PROTEIN1.“ *Frontiers in plant science* (Frontiers) 9 (2018): 1953.
- Paponov, Ivan A., et al. „Natural auxin does not inhibit Brefeldin A induced PIN1 and PIN2 internalization in root cells.“ *Frontiers in plant science* (Frontiers Media SA) 10 (2019).
- Parain, Karine, et al. "A large scale screen for neural stem cell markers in *Xenopus* retina." *Dev Neurobiol* 72 (4 2012): 491-506.
- Park, Eunsook, Sara M. Díaz-Moreno, Destiny J. Davis, Thomas E. Wilkop, Vincent Bulone, and Georgia Drakakaki. "Endosidin 7 Specifically Arrests Late Cytokinesis and Inhibits Callose Biosynthesis, Revealing Distinct Trafficking Events during Cell Plate Maturation." *Plant Physiol* 165 (5 2014): 1019-1034.
- Park, Misoon, et al. „Concerted Action of Evolutionarily Ancient and Novel SNARE Complexes in Flowering-Plant Cytokinesis.“ *Developmental cell* 44, Nr. 4 (2 2018): 500--511.e4.
- Paschaki, Marie, et al. "Transcriptomic analysis of murine embryos lacking endogenous retinoic acid signaling." *PLoS One* 8 (2013): e62274.
- Paschaki, Marie, Song-Chang Lin, Rebecca Lee Yean Wong, Richard H. Finnell, Pascal Dollé, and Karen Niederreither. "Retinoic acid-dependent signaling pathways and lineage events in the developing mouse spinal cord." *PLoS One* 7 (2012): e32447.
- Pearson, Bret J., George T. Eisenhoffer, Kyle A. Gurley, Jochen C. Rink, Diane E. Miller, und Alejandro Sánchez Alvarado. „Formaldehyde-based whole-mount in situ hybridization method for planarians.“ *Developmental Dynamics* (Wiley Online Library) 238 (2009): 443-450.
- Perälä, Nina, et al. "Conservation, expression, and knockdown of zebrafish *plxnb2a* and *plxnb2b*." *Dev Dyn* 239 (10 2010): 2722-2734.
- Perälä, Nina, et al. "Sema4C-Plexin B2 signalling modulates ureteric branching in developing kidney." *Differentiation* 81 (2 2011): 81-91.

- Peskin, Brianna, et al. „Notochordal Signals Establish Phylogenetic Identity of the Teleost Spine.“ *Current biology : CB*, 6 2020.
- Petrovic, Jelena, Hector Gálvez, Joana Neves, Gina Abelló, and Fernando Giraldez. "Differential regulation of Hes/Hey genes during inner ear development." *Dev Neurobiol*, 11 2014.
- Pham, Thomas, Stephanie M. Day, William J. Glassford, Thomas M. Williams, und Mark Rebeiz. „The evolutionary origination of a novel expression pattern through an extreme heterochronic shift.“ *Evolution & development*, 1 2017.
- Pietilä, Ilkka, et al. "Secreted Wnt antagonist Dickkopf-1 controls kidney papilla development coordinated by Wnt-7b signalling." *Dev Biol* 353 (5 2011): 50-60.
- Pietilä, Ilkka, et al. "Wnt5a Deficiency Leads to Anomalies in Ureteric Tree Development, Tubular Epithelial Cell Organization and Basement Membrane Integrity Pointing to a Role in Kidney Collecting Duct Patterning." *PLoS One* 11 (2016): e0147171.
- Pignocchi, Cristina, et al. "ENDOSPERM DEFECTIVE1 Is a Novel Microtubule-Associated Protein Essential for Seed Development in Arabidopsis." *Plant Cell* 21 (1 2009): 90-105.
- Pillai, Renjitha, Louise E. Coverdale, Gaytri Dubey, and C. Cristofre Martin. "Histone deacetylase 1 (HDAC-1) required for the normal formation of craniofacial cartilage and pectoral fins of the zebrafish." *Dev Dyn* 231 (11 2004): 647-654.
- Pinosa, Francesco, et al. "The Arabidopsis thaliana Mob1A gene is required for organ growth and correct tissue patterning of the root tip." *Ann Bot* 112 (12 2013): 1803-1814.
- Pispa, Johanna, Marja L. Mikkola, Tuija Mustonen, and Irma Thesleff. "Ectodysplasin, Edar and TNFRSF19 are expressed in complementary and overlapping patterns during mouse embryogenesis." *Gene Expr Patterns* 3 (10 2003): 675-679.
- Pispa, Johanna, Marja Pummila, Philip A. Barker, Irma Thesleff, and Marja L. Mikkola. "Edar and Troy signalling pathways act redundantly to regulate initiation of hair follicle development." *Hum Mol Genet* 17 (11 2008): 3380-3391.
- Plet, Julie, et al. "MtCRE1-dependent cytokinin signaling integrates bacterial and plant cues to coordinate symbiotic nodule organogenesis in Medicago truncatula." *Plant J* 65 (2 2011): 622-633.
- Plickert, G., Martin Gajewski, Gerd Gehrke, Heinrich Gausepohl, Jörg Schlossherr, und Hady Ibrahim. „Automated in situ detection (AISD) of biomolecules.“ *Development Genes and Evolution* 207 (1997): 362-367.
- Plikus, Maksim V., et al. "Cyclic dermal BMP signalling regulates stem cell activation during hair regeneration." *Nature* 451 (1 2008): 340-344.
- Plikus, Maksim, Wen Pin Wang, Jian Liu, Xia Wang, Ting-Xin Jiang, and Cheng-Ming Chuong. "Morpho-regulation of ectodermal organs: integument pathology and phenotypic variations in K14-Noggin engineered mice through modulation of bone morphogenetic protein pathway." *Am J Pathol* 164 (3 2004): 1099-1114.



- Pollet, N., and C. Niehrs. "Expression profiling by systematic high-throughput in situ hybridization to whole-mount embryos." *Methods Mol Biol* 175 (2001): 309-321.
- Pollet, Nicolas, et al. "An atlas of differential gene expression during early *Xenopus* embryogenesis." *Mech Dev* 122 (3 2005): 365-439.
- Pomreinke, Autumn P., Gary H. Soh, Katherine W. Rogers, Jennifer K. Bergmann, Alexander J. Bläßle, und Patrick Müller. „Dynamics of BMP signaling and distribution during zebrafish dorsal-ventral patterning.“ *eLife* 6 (8 2017).
- Pontieri, Luigi, Arjuna Rajakumar, Ab Matteen Rafiqi, Rasmus Stenbak Larsen, Ehab Abouheif, und Guojie Zhang. „From egg to adult: a developmental table of the ant *Monomorium pharaonis*.“ *bioRxiv* (Cold Spring Harbor Laboratory), 2020.
- Pottin, Karen, H  l  ne Hinaux, and Sylvie R  taux. "Restoring eye size in *Astyanax mexicanus* blind cavefish embryos through modulation of the Shh and Fgf8 forebrain organising centres." *Development* 138 (6 2011): 2467-2476.
- Prill, Kendal, Matiyo Ojehomon, Love Sandhu, Suchandrima Dutta, und John F. Dawson. „Which actin genes are necessary for zebrafish heart development and function?“ *bioRxiv* (Cold Spring Harbor Laboratory), 2020.
- Prunskaitė-Hyyryl  inen, Renata. „Optical Projection Tomography Imaging to Study Kidney Organogenesis.“ In *Kidney Organogenesis*, 185-199. Springer, 2019.
- Prunskaitė-Hyyryl  inen, Renata, Ilya Skovorodkin, Qi Xu, Ilkka Miinalainen, Jingdong Shan, and Seppo J. Vainio. "Wnt4 Coordinates Directional Cell Migration and Extension of the M  llerian Duct Essential for Ontogenesis of the Female Reproductive Tract." *Hum Mol Genet*, 12 2015.
- Pruvot, Benoist, Yoann Cur  , Joachim Djiotsa, Audrey Voncken, and Marc Muller. "Developmental defects in zebrafish for classification of EGF pathway inhibitors." *Toxicol Appl Pharmacol* 274 (1 2014): 339-349.
- Przemeck, Gerhard K. H., Ulrich Heinzmann, Johannes Beckers, and Martin Hrab   de Angelis. "Node and midline defects are associated with left-right development in Delta1 mutant embryos." *Development* 130 (1 2003): 3-13.
- Pummila, Marja, et al. "Ectodysplasin has a dual role in ectodermal organogenesis: inhibition of Bmp activity and induction of Shh expression." *Development* 134 (1 2007): 117-125.
- P  schel, Bernd, and Alice Jouneau. "Whole-mount in situ hybridization to assess advancement of development and embryo morphology." *Methods Mol Biol* 1222 (2015): 255-265.
- Quiring, Rebecca, et al. "Large-scale expression screening by automated whole-mount in situ hybridization." *Mech Dev* 121 (7 2004): 971-976.
- Rafiqi, Ab Matteen, Arjuna Rajakumar, und Ehab Abouheif. „Origin and elaboration of a major evolutionary transition in individuality.“ *Nature* (Nature Publishing Group), 2020: 1-6.

- Ramialison, Mirana, et al. "Rapid identification of PAX2/5/8 direct downstream targets in the otic vesicle by combinatorial use of bioinformatics tools." *Genome Biol* 9 (2008): R145.
- Rampon, Christine, et al. "Control of brain patterning by Engrailed paracrine transfer: a new function of the Pbx interaction domain." *Development*, 4 2015.
- Rampon, Christine, et al. "Translocator protein (18 kDa) is involved in primitive erythropoiesis in zebrafish." *FASEB J* 23 (12 2009): 4181-4192.
- Rantakari, Pia, et al. "Inactivation of Palb2 gene leads to mesoderm differentiation defect and early embryonic lethality in mice." *Hum Mol Genet* 19 (8 2010): 3021-3029.
- Rebustini, Ivan T., Toru Hayashi, Andrew D. Reynolds, Melvin L. Dillard, Ellen M. Carpenter, and Matthew P. Hoffman. "miR-200c regulates FGFR-dependent epithelial proliferation via Vldlr during submandibular gland branching morphogenesis." *Development* 139 (1 2012): 191-202.
- Reddien, Peter W., Adam L. Bermange, Adrienne M. Kicza, and Alejandro Sánchez Alvarado. "BMP signaling regulates the dorsal planarian midline and is needed for asymmetric regeneration." *Development* 134 (11 2007): 4043-4051.
- Reischauer, Sven, Mitchell P. Levesque, Christiane Nüsslein-Volhard, and Mahendra Sonawane. "Lgl2 executes its function as a tumor suppressor by regulating ErbB signaling in the zebrafish epidermis." *PLoS Genet* 5 (11 2009): e1000720.
- Reuter, Hanna, et al. "β-Catenin-Dependent Control of Positional Information along the AP Body Axis in Planarians Involves a Teashirt Family Member." *Cell Rep*, 12 2014.
- Ribes, Vanessa, et al. "Rescue of cytochrome P450 oxidoreductase (Por) mouse mutants reveals functions in vasculogenesis, brain and limb patterning linked to retinoic acid homeostasis." *Dev Biol* 303 (3 2007): 66-81.
- Ribes, Vanessa, Fanny Stutzmann, Laurent Bianchetti, François Guillemot, Pascal Dollé, and Isabelle Le Roux. "Combinatorial signalling controls Neurogenin2 expression at the onset of spinal neurogenesis." *Dev Biol* 321 (9 2008): 470-481.
- Ribes, Vanessa, Isabelle Le Roux, Muriel Rhinn, Brigitte Schuhbaur, and Pascal Dollé. "Early mouse caudal development relies on crosstalk between retinoic acid, Shh and Fgf signalling pathways." *Development* 136 (2 2009): 665-676.
- Ribes, Vanessa, Valérie Fraulob, Martin Petkovich, and Pascal Dollé. "The oxidizing enzyme CYP26a1 tightly regulates the availability of retinoic acid in the gastrulating mouse embryo to ensure proper head development and vasculogenesis." *Dev Dyn* 236 (3 2007): 644-653.
- Ribes, Vanessa, Zengxin Wang, Pascal Dollé, and Karen Niederreither. "Retinaldehyde dehydrogenase 2 (RALDH2)-mediated retinoic acid synthesis regulates early mouse embryonic forebrain development by controlling FGF and sonic hedgehog signaling." *Development* 133 (1 2006): 351-361.
- Richter, Sandra, et al. "Delivery of endocytosed proteins to the cell-division plane requires change of pathway from recycling to secretion." *Elife* 3 (2014): e02131.

- Richter, Sandra, et al. "Functional diversification of closely related ARF-GEFs in protein secretion and recycling." *Nature* 448 (7 2007): 488-492.
- Richter, Sandra, et al. "Polarized cell growth in Arabidopsis requires endosomal recycling mediated by GBF1-related ARF exchange factors." *Nat Cell Biol* 14 (1 2012): 80-86.
- Riegler, Jürgen, Franck Ditengou, Klaus Palme, and Thomas Nann. "Blue shift of CdSe/ZnS nanocrystal-labels upon DNA-hybridization." *J Nanobiotechnology* 6 (2008): 7.
- Rigas, Stamatis, et al. "Root gravitropism and root hair development constitute coupled developmental responses regulated by auxin homeostasis in the Arabidopsis root apex." *New Phytol* 197 (3 2013): 1130-1141.
- Roberts-Galbraith, Rachel H., and Phillip A. Newmark. "Follistatin antagonizes activin signaling and acts with notum to direct planarian head regeneration." *Proc Natl Acad Sci U S A* 110 (1 2013): 1363-1368.
- Rochon, Elizabeth R., Daniel S. Wright, Max M. Schubert, and Beth L. Roman. "Context-specific interactions between Notch and ALK1 cannot explain ALK1-associated arteriovenous malformations." *Cardiovasc Res*, 5 2015.
- Rojek, Joanna, et al. „Rab-dependent vesicular traffic affects female gametophyte development in Arabidopsis.“ *Journal of experimental botany*, 9 2020.
- Rolland, Antoine D., et al. "Expression profiling of rainbow trout testis development identifies evolutionary conserved genes involved in spermatogenesis." *BMC Genomics* 10 (2009): 546.
- Roussigné, Myriam, and Patrick Blader. "Divergence in regulation of the PEA3 family of ETS transcription factors." *Gene Expr Patterns* 6 (10 2006): 777-782.
- Rowton, Megan, Pilar Ramos, Douglas M. Anderson, Jerry M. Rhee, Heather E. Cunliffe, and Alan Rawls. "Regulation of mesenchymal-to-epithelial transition by PARAXIS during somitogenesis." *Dev Dyn* 242 (11 2013): 1332-1344.
- Ruiz Rosquete, Michel, et al. „AtTRAPPC11/ROG2: A Role for TRAPPs in Maintenance of the Plant trans-Golgi Network/Early Endosome Organization and Function.“ *The Plant cell*, 6 2019.
- Ruiz, Oscar E., Krystin M. Samms, und George T. Eisenhoffer. „A protocol to evaluate epithelial regeneration after inducing cell loss in zebrafish larvae.“ *STAR protocols* 3, Nr. 1 (3 2022): 101073.
- Ryckebusch, Lucile, et al. "Retinoic acid deficiency alters second heart field formation." *Proc Natl Acad Sci U S A* 105 (2 2008): 2913-2918.
- Sahut-Barnola, Isabelle, et al. "Cushing's syndrome and fetal features resurgence in adrenal cortex-specific Prkar1a knockout mice." *PLoS Genet* 6 (6 2010): e1000980.
- Sai, XiaoRei, and Raj K. Ladher. "FGF signaling regulates cytoskeletal remodeling during epithelial morphogenesis." *Curr Biol* 18 (7 2008): 976-981.

- Sakabe, Masahide, Hiroki Kokubo, Yuji Nakajima, and Yumiko Saga. "Ectopic retinoic acid signaling affects outflow tract cushion development through suppression of the myocardial Tbx2-Tgf-beta pathway." *Development* 139 (1 2012): 385-395.
- Samajová, Olga, George Komis, and Jozef Samaj. "Immunofluorescent Localization of MAPKs and Colocalization with Microtubules in Arabidopsis Seedling Whole-Mount Probes." *Methods Mol Biol* 1171 (2014): 107-115.
- Sánchez Alvarado, Alejandro, Phillip A. Newmark, Sofia M. Robb, and Réjeanne Juste. "The Schmidtea mediterranea database as a molecular resource for studying platyhelminthes, stem cells and regeneration." *Development* 129 (12 2002): 5659-5665.
- Sancho-Andrés, Gloria, et al. „Sorting motifs involved in the trafficking and localization of the PIN1 auxin efflux carrier.“ *Plant Physiology* (Am Soc Plant Biol), 2016: pp--00373.
- Santagati, Fabio, et al. "Identification of Cis-regulatory elements in the mouse Pax9/Nkx2-9 genomic region: implication for evolutionary conserved synteny." *Genetics* 165 (9 2003): 235-242.
- Sasado, Takao, et al. "Mutations affecting early distribution of primordial germ cells in Medaka (*Oryzias latipes*) embryo." *Mech Dev* 121 (7 2004): 817-828.
- Sasaki, Nobuo, Makoto Kiso, Motoo Kitagawa, and Yumiko Saga. "The repression of Notch signaling occurs via the destabilization of mastermind-like 1 by Mesp2 and is essential for somitogenesis." *Development* 138 (1 2011): 55-64.
- Sauer, Michael, and Jiří Friml. "Immunolocalization of proteins in plants." *Methods Mol Biol* 655 (2010): 253-263.
- Sauer, Michael, et al. „Canalization of auxin flow by Aux/IAA-ARF-dependent feedback regulation of PIN polarity.“ *Genes & development* 20, Nr. 20 (10 2006): 2902-2911.
- Sauer, Michael, Tomasz Paciorek, Eva Benková, and Jiří Friml. "Immunocytochemical techniques for whole-mount in situ protein localization in plants." *Nat Protoc* 1 (2006): 98-103.
- Scheven, Gudrun, Ingo Bothe, Mohi U. Ahmed, Lúcia E. Alvares, and Susanne Dietrich. "Protein and genomic organisation of vertebrate MyoR and Capsulin genes and their expression during avian development." *Gene Expr Patterns* 6 (4 2006): 383-393.
- Schmidt, David, et al. „The Integrator complex regulates differential snRNA processing and fate of adult stem cells in the highly regenerative planarian *Schmidtea mediterranea*.“ *PLoS genetics* 14, Nr. 12 (12 2018): e1007828.
- Seebeck, Florian, et al. „Integrins are required for tissue organization and restriction of neurogenesis in regenerating planarians.“ *Development (Cambridge, England)* 144, Nr. 5 (3 2017): 795-807.
- Selva, Caterina, et al. „HvLEAFY controls the early stages of floral organ specification and inhibits the formation of multiple ovaries in barley.“ *The Plant journal : for cell and molecular biology* 108, Nr. 2 (10 2021): 509-527.

- Semenova, S. A., Y.-C. Chen, X. Zhao, H. Rauvala, and P. Panula. "The tyrosine hydroxylase 2 (TH2) system in zebrafish brain and stress activation of hypothalamic cells." *Histochem Cell Biol* 142 (12 2014): 619-633.
- Semenova, Svetlana, Stanislav Rozov, und Pertti Panula. „Distribution, properties, and inhibitor sensitivity of zebrafish catechol-O-methyl transferases (COMT).“ *Biochemical Pharmacology* (Elsevier), 2017.
- Serth, Katrin, Karin Schuster-Gossler, Ralf Cordes, and Achim Gossler. "Transcriptional oscillation of lunatic fringe is essential for somitogenesis." *Genes Dev* 17 (4 2003): 912-925.
- Shaheen, Ranad, et al. "A TCTN2 mutation defines a novel Meckel Gruber syndrome locus." *Hum Mutat* 32 (6 2011): 573-578.
- Shaheen, Ranad, et al. „Biallelic mutations in TTC26 (IFT56) cause severe biliary ciliopathy in humans.“ *Hepatology (Baltimore, Md.)*, 10 2019.
- Shankaran, Sunita S., et al. "Completing the set of h/E(spl) cyclic genes in zebrafish: her12 and her15 reveal novel modes of expression and contribute to the segmentation clock." *Dev Biol* 304 (4 2007): 615-632.
- Shibata, Norito, et al. "Comprehensive gene expression analyses in pluripotent stem cells of a planarian, *Dugesia japonica*." *Int J Dev Biol* 56 (2012): 93-102.
- Shirokova, Vera, et al. "Expression of Foxi3 is regulated by ectodysplasin in skin appendage placodes." *Dev Dyn* 242 (6 2013): 593-603.
- Shoesmith, Jennifer R., et al. „APETALA2 functions as a temporal factor together with BLADE-ON-PETIOLE2 and MADS29 to control flower and grain development in barley.“ *Development (Cambridge, England)*, 2 2021.
- Shoichet, S. A., T. H. Malik, J. H. Rothman, and R. A. Shivdasani. "Action of the *Caenorhabditis elegans* GATA factor END-1 in *Xenopus* suggests that similar mechanisms initiate endoderm development in ecdysozoa and vertebrates." *Proc Natl Acad Sci U S A* 97 (4 2000): 4076-4081.
- Sieger, Dirk, Bastian Ackermann, Christoph Winkler, Diethard Tautz, and Martin Gajewski. "her1 and her13.2 are jointly required for somitic border specification along the entire axis of the fish embryo." *Dev Biol* 293 (5 2006): 242-251.
- Sieger, Dirk, Diethard Tautz, and Martin Gajewski. "her11 is involved in the somitogenesis clock in zebrafish." *Dev Genes Evol* 214 (8 2004): 393-406.
- Sieger, Dirk, Diethard Tautz, und Martin Gajewski. „The role of Suppressor of Hairless in Notch mediated signalling during zebrafish somitogenesis.“ *Mechanisms of development* (Elsevier) 120 (2003): 1083-1094.
- Šimášková, Mária, et al. "Cytokinin response factors regulate PIN-FORMED auxin transporters." *Nat Commun* 6 (2015): 8717.

- Simon, Siby, et al. „PIN6 auxin transporter at endoplasmic reticulum and plasma membrane mediates auxin homeostasis and organogenesis in Arabidopsis.“ *The New phytologist* 211, Nr. 1 (7 2016): 65-74.
- Singh, Manoj K., et al. „A single class of ARF GTPase activated by several pathway-specific ARF-GEFs regulates essential membrane traffic in Arabidopsis.“ *PLoS genetics* (Public Library of Science) 14 (2018): e1007795.
- Skokan, Roman, et al. „PIN-driven auxin transport emerged early in streptophyte evolution.“ *Nature plants* 5, Nr. 11 (11 2019): 1114-1119.
- Sleight, Victoria A., Benjamin Marie, Daniel J. Jackson, Elisabeth A. Dyrzynda, Arul Marie, und Melody S. Clark. „An Antarctic molluscan biomineralisation tool-kit.“ *Scientific reports* 6 (11 2016): 36978.
- Smith, Sarah Jacquelyn, Lance A. Davidson, und Mark Rebeiz. „Evolutionary expansion of apical extracellular matrix is required for the elongation of cells in a novel structure.“ *eLife* 9 (4 2020).
- Solana, Jordi, et al. "Conserved functional antagonism of CELF and MBNL proteins controls stem cell-specific alternative splicing in planarians." *Elife* 5 (2016).
- Söll, Iris, und Giselbert Hauptmann. „Manual and automated whole-mount in situ hybridization for systematic gene expression analysis in embryonic zebrafish forebrain.“ *In Situ Hybridization Methods* (Springer), 2015: 171-206.
- Song, Y., J. N. Hui, K. K. Fu, and J. M. Richman. "Control of retinoic acid synthesis and FGF expression in the nasal pit is required to pattern the craniofacial skeleton." *Dev Biol* 276 (12 2004): 313-329.
- Soukkaieh, Chadi, Eric Agius, Cathy Soula, and Philippe Cochard. "Pax2 regulates neuronal-glia cell fate choice in the embryonic optic nerve." *Dev Biol* 303 (3 2007): 800-813.
- Souren, Marcel, Juan Ramon Martinez-Morales, Panagiota Makri, Beate Wittbrodt, and Joachim Wittbrodt. "A global survey identifies novel upstream components of the Ath5 neurogenic network." *Genome Biol* 10 (2009): R92.
- Sprunck, Stefanie, et al. „Elucidating small RNA pathways in Arabidopsis thaliana egg cells.“ *bioRxiv* (Cold Spring Harbor Laboratory), 2019: 525956.
- Stahl, Yvonne, and Rüdiger Simon. "mRNA detection by whole mount in situ hybridization (WISH) or sectioned tissue in situ hybridization (SISH) in Arabidopsis." *Methods Mol Biol* 655 (2010): 239-251.
- Stahl, Yvonne, René H. Wink, Gwyneth C. Ingram, and Rüdiger Simon. "A signaling module controlling the stem cell niche in Arabidopsis root meristems." *Curr Biol* 19 (6 2009): 909-914.
- Starodubtseva, Anastasiia, et al. „An Arabidopsis mutant deficient in phosphatidylinositol-4-phosphate kinases  $\beta$ 1 and  $\beta$ 2 displays altered auxin-related responses in roots.“ *Scientific reports* 12, Nr. 1 (4 2022): 6947.

- Strand, Nicholas S., et al. „Dissecting the function of Cullin-RING ubiquitin ligase complex genes in planarian regeneration.“ *Developmental biology* (Elsevier) 433 (2018): 210-217.
- Sun, Fei, et al. „Enhancer selection dictates gene expression responses in remote organs during tissue regeneration.“ *Nature cell biology*, 5 2022.
- Sun, Jiaqiang, et al. "Arabidopsis ASA1 is important for jasmonate-mediated regulation of auxin biosynthesis and transport during lateral root formation." *Plant Cell* 21 (5 2009): 1495-1511.
- Sureda-Gómez, Miquel, Eudald Pascual-Carreras, and Teresa Adell. "Posterior Wnts Have Distinct Roles in Specification and Patterning of the Planarian Posterior Region." *Int J Mol Sci* 16 (2015): 26543-26554.
- Sureda-Gómez, Miquel, José M. Martín-Durán, und Teresa Adell. „Localization of planarian  $\beta$ -CATENIN-1 reveals multiple roles during anterior-posterior regeneration and organogenesis.“ *Development (Cambridge, England)* 143, Nr. 22 (11 2016): 4149-4160.
- Sutherby, Josh, Jamie-Lee Giardini, Julia Nguyen, Gary Wessel, Mariana Leguia, and Andreas Heyland. "Histamine is a modulator of metamorphic competence in *Strongylocentrotus purpuratus* (Echinodermata: Echinoidea)." *BMC Dev Biol* 12 (2012): 14.
- Suvarnasuthi, Saroj, Katsuto Tamai, and Yasufumi Kaneda. "Rapid transport of plasmid DNA into the nucleolus via actin depolymerization using the HVJ envelope vector." *J Gene Med* 9 (1 2007): 55-62.
- Suzuki, Toshiyasu, Morioh Kusakabe, Kei Nakayama, and Eisuke Nishida. "The protein kinase MLTK regulates chondrogenesis by inducing the transcription factor Sox6." *Development* 139 (8 2012): 2988-2998.
- Szabo-Rogers, Heather L., Poongodi Geetha-Loganathan, Cheryl J. Whiting, Suresh Nimmagadda, Katherine Fu, and Joy M. Richman. "Novel skeletogenic patterning roles for the olfactory pit." *Development* 136 (1 2009): 219-229.
- Takahashi, Chika, Koichi Miyatake, Morioh Kusakabe, und Eisuke Nishida. „The atypical mitogen-activated protein kinase ERK3 is essential for establishment of epithelial architecture.“ *Journal of Biological Chemistry (ASBMB)*, 2018: jbc--RA117.
- Takahashi, Chika, Morioh Kusakabe, Toshiyasu Suzuki, Koichi Miyatake, and Eisuke Nishida. "mab21-13 regulates cell fate specification of multiciliate cells and ionocytes." *Nat Commun* 6 (2015): 6017.
- Takahashi, Chika, Toshiyasu Suzuki, Eisuke Nishida, and Morioh Kusakabe. "Identification and characterization of *Xenopus* kctd15, an ectodermal gene repressed by the FGF pathway." *Int J Dev Biol* 56 (2012): 393-402.
- Tamplin, Owen J., Brian J. Cox, and Janet Rossant. "Integrated microarray and ChIP analysis identifies multiple *Foxa2* dependent target genes in the notochord." *Dev Biol* 360 (12 2011): 415-425.



- Tanaka, Hirokazu, et al. „BEX1/ARF1A1C is required for BFA-sensitive recycling of PIN auxin transporters and auxin-mediated development in Arabidopsis.“ *Plant & cell physiology* 55, Nr. 4 (4 2014): 737-749.
- Tang, Tracy, et al. "A mouse knockout library for secreted and transmembrane proteins." *Nat Biotechnol* 28 (7 2010): 749-755.
- Teboul, Lydia, Dennis Summerbell, and Peter W. J. Rigby. "The initial somitic phase of Myf5 expression requires neither Shh signaling nor Gli regulation." *Genes Dev* 17 (12 2003): 2870-2874.
- Teboul, Lydia, Juliette Hadchouel, Philippe Daubas, Dennis Summerbell, Margaret Buckingham, and Peter W. J. Rigby. "The early epaxial enhancer is essential for the initial expression of the skeletal muscle determination gene Myf5 but not for subsequent, multiple phases of somitic myogenesis." *Development* 129 (10 2002): 4571-4580.
- Teraoka, Michael E., Marie Paschaki, Yuko Muta, and Raj K. Ladher. "Rostral paraxial mesoderm regulates refinement of the eye field through the bone morphogenetic protein (BMP) pathway." *Dev Biol* 330 (6 2009): 389-398.
- Thermes, Violette, Eva Candal, Alessandro Alunni, Guillaume Serin, Franck Bourrat, and Jean-Stéphane Joly. "Medaka simplet (FAM53B) belongs to a family of novel vertebrate genes controlling cell proliferation." *Development* 133 (5 2006): 1881-1890.
- Thomas, J. Terrig, Lina Chhuy-Hy, Kristin R. Andrykovich, and Malcolm Moos Jr. „SMOC Binds to Pro-EGF, but Does Not Induce Erk Phosphorylation via the EGFR.“ *PLOS ONE* (Public Library of Science) 11 (2016): e0154294.
- Thomas-Jinu, Swapna, et al. „Non-nuclear Pool of Splicing Factor SFPQ Regulates Axonal Transcripts Required for Normal Motor Development.“ *Neuron*, 4 2017.
- Thompson, John D., et al. „Identification and requirements of enhancers that direct gene expression during zebrafish fin regeneration.“ *Development (Cambridge, England)* 147, Nr. 14 (7 2020).
- Thomsen, Martin K., Christopher M. Butler, Michael M. Shen, and Amanda Swain. "Sox9 is required for prostate development." *Dev Biol* 316 (4 2008): 302-311.
- Tiozzo, Stefano, Lionel Christiaen, Carole Deyts, Lucia Manni, Jean-Stéphane Joly, and Paolo Burighel. "Embryonic versus blastogenetic development in the compound ascidian *Botryllus schlosseri*: insights from Pitx expression patterns." *Dev Dyn* 232 (2 2005): 468-478.
- Tontsch, Sabine, Günter Lepperdinger, Isabella Artner, und Hans-Christian Bauer. „Whole-Mount In Situ Hybridization: Manual and Automated Procedure.“ 2005.
- Touahri, Yacine, Nathalie Escalas, Bertrand Benazeraf, Philippe Cochard, Cathy Danesin, and Cathy Soula. "Sulfatase 1 promotes the motor neuron-to-oligodendrocyte fate switch by activating Shh signaling in Olig2 progenitors of the embryonic ventral spinal cord." *J Neurosci* 32 (12 2012): 18018-18034.

- Tromas, Alexandre, et al. "The AUXIN BINDING PROTEIN 1 is required for differential auxin responses mediating root growth." *PLoS One* 4 (2009): e6648.
- Tunes, Luiza G., John M. Allen, Ricardo M. Zayas, und L. Rubens. „Planarians as models to investigate the bioactivity of gold (I) complexes in vivo.“ *Scientific reports* (Nature Publishing Group) 8 (2018): 16180.
- Ueda, Minako, et al. "The HALTED ROOT gene encoding the 26S proteasome subunit RPT2a is essential for the maintenance of Arabidopsis meristems." *Development* 131 (5 2004): 2101-2111.
- Ueda, Nobuo, et al. „An ancient role for nitric oxide in regulating the animal pelagobenthic life cycle: evidence from a marine sponge.“ *Nature Scientific reports* 6 (11 2016): 37546.
- Val, Pierre, Juan-Pedro Martinez-Barbera, and Amanda Swain. "Adrenal development is initiated by Cited2 and Wt1 through modulation of Sf-1 dosage." *Development* 134 (6 2007): 2349-2358.
- Val, Pierre, Katherine Jeays-Ward, and Amanda Swain. "Identification of a novel population of adrenal-like cells in the mammalian testis." *Dev Biol* 299 (11 2006): 250-256.
- Vanpoucke, Griet, et al. "Transcriptional profiling of inductive mesenchyme to identify molecules involved in prostate development and disease." *Genome Biol* 8 (2007): R213.
- Vargas-Lowman, Aidamalia, et al. „Cooption of the pteridine biosynthesis pathway underlies the diversification of embryonic colors in water striders.“ *Proceedings of the National Academy of Sciences of the United States of America*, 9 2019.
- Vazirzadeh, Arya, und Yann Guiguen. „Differential expression of subunits of 20 $\beta$ -hydroxysteroid dehydrogenase during gametogenesis in rainbow trout (*Oncorhynchus mykiss*).“ *Animal Reproduction Science* (Elsevier), 2017.
- Vermot, Julien, et al. "Retinaldehyde dehydrogenase 2 and Hoxc8 are required in the murine brachial spinal cord for the specification of Lim1+ motoneurons and the correct distribution of Islet1+ motoneurons." *Development* 132 (4 2005): 1611-1621.
- Vidal, Valerie Pi, et al. „R-spondin signalling is essential for the maintenance and differentiation of mouse nephron progenitors.“ *eLife* 9 (5 2020).
- Vincent, Ben J., et al. „An Atlas of Transcription Factors Expressed in Male Pupal Terminalia of , javax.xml.bind.JAXBElement@d650ae, .“ *G3 (Bethesda, Md.)* 9, Nr. 12 (12 2019): 3961-3972.
- Vizziano, Denise, Daniel Baron, Gwenaëlle Randuineau, Sophie Mahè, Chantal Cauty, and Yann Guiguen. "Rainbow trout gonadal masculinization induced by inhibition of estrogen synthesis is more physiological than masculinization induced by androgen supplementation." *Biol Reprod* 78 (5 2008): 939-946.
- Vizziano, Denise, Gwenaëlle Randuineau, Daniel Baron, Chantal Cauty, and Yann Guiguen. "Characterization of early molecular sex differentiation in rainbow trout, *Oncorhynchus mykiss*." *Dev Dyn* 236 (8 2007): 2198-2206.

- Voutilainen, Maria, et al. "Ectodysplasin/NF-kappaB Promotes Mammary Cell Fate via Wnt/beta-catenin Pathway." *PLoS Genet* 11 (11 2015): e1005676.
- Wagh, V., et al. "Fam40b is required for lineage commitment of murine embryonic stem cells." *Cell Death Dis* 5 (2014): e1320.
- Wang, Bangjun, et al. „Arabidopsis TWISTED DWARF1 functionally interacts with auxin exporter ABCB1 on the root plasma membrane.“ *The Plant cell* 25, Nr. 1 (1 2013): 202-214.
- Wang, Jinhua, et al. "The regenerative capacity of zebrafish reverses cardiac failure caused by genetic cardiomyocyte depletion." *Development* 138 (8 2011): 3421-3430.
- Wang, Jinhua, Ravi Karra, Amy L. Dickson, and Kenneth D. Poss. "Fibronectin is deposited by injury-activated epicardial cells and is necessary for zebrafish heart regeneration." *Dev Biol* 382 (10 2013): 427-435.
- Wang, Zengxin, Pascal Dollé, Wellington V. Cardoso, and Karen Niederreither. "Retinoic acid regulates morphogenesis and patterning of posterior foregut derivatives." *Dev Biol* 297 (9 2006): 433-445.
- Warkman, Andrew S., Tatiana A. Yatskievych, Katharine M. Hardy, Paul A. Krieg, and Parker B. Antin. "Myocardin expression during avian embryonic heart development requires the endoderm but is independent of BMP signaling." *Dev Dyn* 237 (1 2008): 216-221.
- Warren, Madhuri, et al. "A Sall4 mutant mouse model useful for studying the role of Sall4 in early embryonic development and organogenesis." *Genesis* 45 (1 2007): 51-58.
- Watanabe, Yusuke, et al. "Activation of Notch1 signaling in cardiogenic mesoderm induces abnormal heart morphogenesis in mouse." *Development* 133 (5 2006): 1625-1634.
- Webster, Kaitlyn A., Ursula Schach, Angel Ordaz, Jocelyn S. Steinfeld, Bruce W. Draper, und Kellee R. Siegfried. „Dmrt1 is necessary for male sexual development in zebrafish.“ *Developmental biology*, 12 2016.
- Weier, Diana, et al. "Gibberellin-to-abscisic acid balances govern development and differentiation of the nucellar projection of barley grains." *J Exp Bot*, 7 2014.
- Weller, Benjamin, et al. „Dynamic PIN-FORMED auxin efflux carrier phosphorylation at the plasma membrane controls auxin efflux-dependent growth.“ *Proceedings of the National Academy of Sciences of the United States of America* 114, Nr. 5 (1 2017): E887--E896.
- Welsh, Ian C., and Timothy P. O'Brien. "Signaling integration in the rugae growth zone directs sequential SHH signaling center formation during the rostral outgrowth of the palate." *Dev Biol* 336 (12 2009): 53-67.
- Wenger, Y., W. Buzgariu, and B. Galliot. "Loss of neurogenesis in Hydra leads to compensatory regulation of neurogenic and neurotransmission genes in epithelial cells." *Philos Trans R Soc Lond B Biol Sci* 371 (1 2016).

- Wenger, Yvan, Wanda Buzgariu, Silke Reiter, and Brigitte Galliot. "Injury-induced immune responses in Hydra." *Semin Immunol* 26 (8 2014): 277-294.
- Williams, Katherine, et al. „Regulation of axial and head patterning during planarian regeneration by a commensal bacterium.“ *Mechanisms of development*, 5 2020: 103614.
- Wingen, Christian, Birgit Stümpges, Michael Hoch, and Matthias Behr. "Expression and localization of clathrin heavy chain in Drosophila melanogaster." *Gene Expr Patterns* 9 (10 2009): 549-554.
- Wolter, Justin M., et al. „Evolutionary patterns of metazoan microRNAs reveal targeting principles in the let-7 and miR-10 families.“ *Genome research* 27, Nr. 1 (1 2017): 53-63.
- Wong, Rebecca Lee Yean, et al. "Mouse Fkbp8 activity is required to inhibit cell death and establish dorso-ventral patterning in the posterior neural tube." *Hum Mol Genet* 17 (2 2008): 587-601.
- Wu, Quan, Kurumi Fukuda, Michael Weinstein, Jonathan M. Graff, and Yumiko Saga. "SMAD2 and p38 signaling pathways act in concert to determine XY primordial germ cell fate in mice." *Development* 142 (2 2015): 575-586.
- Yamamoto, Miwako, and Yasuhisa Matsui. "Testis-specific expression of a novel mouse defensin-like gene, Tdl." *Mech Dev* 116 (8 2002): 217-221.
- Yang, Zheqiong, Anamaria Balic, Frederic Michon, Emma Juuri, and Irma Thesleff. "Mesenchymal Wnt/beta-Catenin Signaling Controls Epithelial stem Cell Homeostasis in Teeth by Inhibiting the Antiapoptotic Effect of Fgf10." *Stem Cells*, 2 2015.
- Yano, Ayaka, Barbara Nicol, Adele Guerin, and Yann Guiguen. "The duplicated rainbow trout (*Oncorhynchus mykiss*) T-box transcription factors 1, *tbx1a* and *tbx1b*, are up-regulated during testicular development." *Mol Reprod Dev* 78 (3 2011): 172-180.
- Yoshida, Shiro, et al. "Modulation of activin A-induced differentiation in vitro by vascular endothelial growth factor in *Xenopus* presumptive ectodermal cells." *In Vitro Cell Dev Biol Anim* 41 (2005): 104-110.
- Yu, Hong, et al. "ROOT ULTRAVIOLET B-SENSITIVE1/weak auxin response3 is essential for polar auxin transport in *Arabidopsis*." *Plant Physiol* 162 (6 2013): 965-976.
- Yu, Qianqian, Jiajia Liu, Huihui Zheng, Yuebin Jia, Huiyu Tian, und Zhaojun Ding. „Topoisomerase II-associated protein PAT1H1 is involved in the root stem cell niche maintenance in *Arabidopsis thaliana*.“ *Plant cell reports* 35, Nr. 6 (6 2016): 1297-1307.
- Yu, Xiaobo, et al. „Fertilized egg cells secrete endopeptidases to avoid polytubey.“ *Nature* 592, Nr. 7854 (4 2021): 433-437.
- Zayas, Ricardo M., Francesc Cebriá, Tingxia Guo, Junjie Feng, and Phillip A. Newmark. "The use of lectins as markers for differentiated secretory cells in planarians." *Dev Dyn* 239 (11 2010): 2888-2897.
- Zélicourt, Axel, et al. "Dual involvement of a *Medicago truncatula* NAC transcription factor in root abiotic stress response and symbiotic nodule senescence." *Plant J* 70 (4 2012): 220-230.

- Zhang, Shu Xing, et al. "Identification of direct serum-response factor gene targets during Me2SO-induced P19 cardiac cell differentiation." *J Biol Chem* 280 (5 2005): 19115-19126.
- Zhang, Wenjun, Tatiana A. Yatskievych, Robert K. Baker, and Parker B. Antin. "Regulation of Hex gene expression and initial stages of avian hepatogenesis by Bmp and Fgf signaling." *Dev Biol* 268 (4 2004): 312-326.
- Zhang, Zhen, et al. "Massively parallel sequencing identifies the gene Megf8 with ENU-induced mutation causing heterotaxy." *Proc Natl Acad Sci U S A* 106 (3 2009): 3219-3224.
- Zhang, Zichao, et al. "Fuz regulates craniofacial development through tissue specific responses to signaling factors." *PLoS One* 6 (2011): e24608.
- Zhao, Lihua, et al. "Comparative expression profiling reveals gene functions in female meiosis and gametophyte development in Arabidopsis." *Plant J*, 9 2014.
- Zhao, Wei, Rieko Ajima, Youichirou Ninomiya, and Yumiko Saga. "Segmental border is defined by Ripply2-mediated Tbx6 repression independent of Mesp2." *Dev Biol*, 1 2015.
- Zhao, Xiang, Ari Rouhiainen, Zhilin Li, Su Guo, und Heikki Rauvala. „Regulation of Neurogenesis in Mouse Brain by HMGB1.“ *Cells* 9, Nr. 7 (7 2020).
- Zhou, Wenkun, et al. "Arabidopsis Tyrosylprotein sulfotransferase acts in the auxin/PLETHORA pathway in regulating postembryonic maintenance of the root stem cell niche." *Plant Cell* 22 (11 2010): 3692-3709.
- Zou, Yihui, et al. "Induction of the chick columella and its integration with the inner ear." *Dev Dyn* 241 (6 2012): 1104-1110.
- Zourelidou, Melina, et al. „Auxin efflux by PIN-FORMED proteins is activated by two different protein kinases, D6 PROTEIN KINASE and PINOID.“ *eLife* 3 (6 2014).
- Zwiewka, Marta, et al. „Root Adaptation to H2O2-Induced Oxidative Stress by ARF-GEF BEN1- and Cytoskeleton-Mediated PIN2 Trafficking.“ *Plant & cell physiology* 60, Nr. 2 (2 2019): 255-273.
- Zwiewka, Marta, Tomasz Nodzyński, Stéphanie Robert, Steffen Vanneste, und Jiří Friml. „Osmotic Stress Modulates the Balance between Exocytosis and Clathrin-Mediated Endocytosis in Arabidopsis thaliana.“ *Molecular plant* 8, Nr. 8 (8 2015): 1175-1187.