

7. Literatur

- Acampora, D.**, Merlo, G.R., Paleari, L., Zerega, B., Postiglione, M.P., Mantero, S., Bober, E., Barbieri, O., Simeone, A., Levi, G. (1999) Craniofacial, vestibular and bone defects in mice lacking the Distal-less-related gene *Dlx5*. *Development* **126** (17): 3795-3809
- Afzal, A.R.**, Rajab, A., Fenske, C., Oldridge, M., Elanko, N., Ternes-Pereira, E., Tuysuz, B., Murday, V.A., Patton, M.A., Wilkie, A.O.M., Jeffery, S. (2000) Autosomal recessive Robinow syndrome is allelic to dominant brachydactyly B and caused by loss of function mutations in *ROR2*. *Nat Genet* **25** (4): 419-422
- Al-Shawi, R.**, Ashton, S.V., Underwood, C., Simons, J.P. (2001) Expression of the *Ror1* and *Ror2* receptor tyrosine kinase genes during mouse development. *Dev Genes Evol* **211** (4): 161-171
- Bach, I.** (2000) The LIM domain: regulation by association. *Mech Dev* **91** (1-2): 5-17
- Baur, S.T.**, Mai, J.J., Dymecki, S.M. (2000) Combinatorial signalling through BMP receptor IB and GDF5: shaping of the distal mouse limb and the genetics of distal limb diversity. *Development*, **127** (3): 605-619
- Bell, J.** (1951) On brachydactyly and symphalangism. In: *The treasury of human inheritance*. Vol 5: 1-31 Cambridge University Press, Cambridge;
- Bertrand, M.**, Huijbers, I., Chomez, P., De Backer, O. (2004) Comparative Expression Analysis of the *MAGED* Genes During Embryogenesis and Brain Development. *Dev Dyn* **230** (2): 325-334
- Bi W.**, Deng J.M., Zhang Z., Behringer R.R., de Crombrughe B. (1999) *Sox9* is required for cartilage formation. *Nat Genet* **22** (1): 85-9.
- Billiard, J.**, Way, D.S., Seestaller-Wehr, L.M., Moran, R.A., Mangine, A., Bodine, P.V.N. (2005) The Orphan Receptor Tyrosine Kinase *Ror2* Modulates Canonical Wnt Signaling in Osteoblastic Cells. *Mol Endocrinol* **19** (1): 90-101
- van Bokhoven, H.**, Celli, J., Kayserili, H., van Beusekom, E., Balci, S., Brussel, W., Skovby, F., Kerr, B., Ferda Percin, E., Akarsu, N., Brunner, H.G. (2000) Mutation of the gene encoding the *ROR2* tyrosine kinase causes autosomal recessive Robinow syndrome. *Nat Genet* **25** (4): 423-426
- Brown, S.**, Coghill, I.D., McGrath, M.J., Robinson, P.A (2001) Role of LIM Domains in Mediating Signaling Protein Interactions. *IUBMB Life* **51** (6): 359-364
- Chen, Y.**, Bellamy, W.P., Seabra, M.C., Field, M.C., Ali, B.R. (2005) ER-associated protein degradation is a common mechanism underpinning numerous monogenic diseases including Robinow syndrome. *Hum Mol Genet* **14** (17): 2559-2569

- Crackower, M.A.,** Scherer, S.W., Rommens, J.M., Hui, C.C., Poorkaj, P., Soder, S., Cobben, J.M., Hudgins, L., Evans, J.P., Tsui, L.C. (1996) Characterization of the split hand/split foot malformations locus SHFM1 at 7q21.3-q22.1 and analysis of a candidate gene for its expression during limb development. *Hum Mol Gen* **5** (5): 571-579
- van Criekinge, W. & Beyaert, R.** (1999) Yeast Two-Hybrid: State of the Art. *Biological Procedures Online* **2** (1): www.biologicalprocedures.com
- DeChiara, T.M.,** Kimble, R.B., Poueymirou, W.T., Rojas, J., Masiakowski, P., Valenzuela, D.M., Yancopoulos, G.D. (2000) Ror2, encoding a receptor-like tyrosine kinase, is required for cartilage and growth plate development. *Nat Genet* **24** (3): 271-274
- van der Bruggen, P.,** Traversari, C., Chomez, P., Lurquin, C., De Plaen, E., van den Eynde, B., Knuth, A., Boon, T. A gene encoding an antigen recognized by cytolytic T lymphocytes on a human melanoma. *Science* **254** (5038): 1643-1647
- Ding, Y. & Dale, T.** (2002) Wnt signal transduction: kinase cogs in a nano-machine? *Trends Biochem Sci* **27** (7): 327-9
- Durick, K.,** Wu, R-Y., Gill, G.N., Taylor, S.S. (1996) Mitogenic Signaling by Ret/ptc2 Requires Association with Enigma via a LIM Domain. *J Biol Chem* **271** (22): 12691-12694
- Erlebacher, A.,** Filvaroff, E.H., Gitelman, S.E., Derynck, R. (1995) Toward a molecular understanding of skeletal development. *Cell* **80** (3): 371-8.
- Ferrari, D. & Koshier, R.A.** (2002) Dlx5 Is a Positive Regulator of Chondrocyte Differentiation during Endochondral Ossification. *Dev Biol* **252** (2): 257-270
- Fields, S. & Song, O.** (1989) A novel genetic system to detect protein-protein interactions. *Nature* **340** (6230): 245-246
- Forrester, W.C.,** Dell, M., Perens, E, Garriga, G.A. (1999) A *C. elegans* Ror receptor tyrosine kinase regulates cell motility and asymmetric cell division. *Nature* **400** (6747): 881-885
- Francis-West, P.H.,** Abdelfattah, A., Chen, P., Allen, C., Parish, J., Ladher, R., Allen, S., MacPherson, S., Luyten, F. P., & Archer, C. W. (1999) Mechanisms of GDF-5 action during skeletal development. *Development* **126** (6): 1305-1315.
- Freyd, G.,** Kim, S.K., Horvitz, H.R. (1990) Novel cysteine-rich motif and homeodomain in the product of the *Ceanorhabditis elegans* cell lineage gene lin-11. *Nature* **344** (6269): 876-879
- Gao, B.,** Guo, J., She, C., Shu, A., Yang, M., Tan, Z., Yang, X., Guo, S., Feng, G., He, L. (2001) Mutations in *Ihh*, encoding Indian hedgehog, cause brachydactyly type A-1. *Nat Genet* **28** (4): 386-388
- Gilbert, S. F.** (2000) *Developmental Biology*, 6th edition, Sinauer Associates Inc., USA

- Goehler, H.**, Lalowski, M., Stelzl, U., Waelter, S., Stroedicke, M., Worm, U., Droege, A., Lindenberg, K.S., Knoblich, M., Haenig, C., Herbst, M., Suopanki, J., Scherzinger, E., Abraham, C., Bauer, B., Hasenbank, R., Fritsche, A., Ludewig, A., Buessow, K., Coleman, S.H., Gutekunst, C.A., Landwehrmeyer, B.G., Lehrach, H., Wanker, E.E. (2004) A Protein Interaction Network Links GIT1, an Enhancer of Huntingtin Aggregation, to Huntington's Disease. *Mol Cell* **15** (6): 853-65
- Hall, B. K. & Miyake T.** (2000) Craniofacial development of avian and rodent embryos. *Methods Mol Biol* **135**: 127-37
- Heisenberg, C.P.**, Tada M., Rauch, G.J., Saude, L., Concha, M.L., Geisler, R., Stemple, D.L., Smith, J.C., Wilson, S.W. (2000) Silberblick/Wnt11 mediates convergent extension movements during zebrafish gastrulation. *Nature* **405** (6782): 76-81
- Hikasa, H.**, Shibata, M., Hiratani, I., Taira, M. (2002) The *Xenopus* receptor tyrosine kinase *Xror2* modulates morphogenetic movements of the axial mesoderm and neuroectoderm via Wnt signaling. *Development* **129** (22): 5227-5239
- Hollenberg, S.M.**, Sternglanz, R., Cheng, P.F., Weintraub, H. (1995) Identification of a New Family Of a Tissue-specific Basic Helix-Loop-Helix Proteins with a Two-Hybrid System. *Mol Cell Biol* **15** (7): 3813-3822
- Johnson, D.**, Kan, S.H., Oldridge, M., Trembath, R.C., Roche, P., Esnouf, R.M., Giele, H., Wilkie, A.O. (2003) Missense mutations in the homeodomain of *HOXD13* are associated with brachydactyly types D and E. *Am J Hum Genet* **72** (4): 984-997
- Kadmas, J.L. & Beckerle, M.C.** (2004): The LIM Domain: from the cytoskeleton to the nucleus. *Nat Rev Mol Cell Biol* **5** (11): 920-931
- Kani, S.**, Oishi, I., Yamamoto, H., Yoda, A., Suzuki, H., Nomachi, A., Iozumi, K., Nishita, M., Kikuchi, A., Takumi, T., Minami, Y. (2004) The Receptor Tyrosine Kinase *Ror2* Associates with and is Activated by Casein kinase I ϵ . *J Biol Chem* **279** (48): 50102-50109
- Karlsson, O.**, Thor, S., Norberg, T., Ohlsson, H., Edlund, T. (1988) Insulin gene enhancer binding protein *Isl-1* is a member of a novel class of proteins containing both a homeo- and a Cys-His domain. *Nature* **344** (6269): 879-882
- Kastner, P.**, Grondona, J.M., Mark, M., Gansmuller, A., LeMeur, M., Decimo, D., Vonesch, J.-L., Dollé, P., Chambion, P. (1994) Genetic Analyses of *RXR α* Developmental Function: Convergence of *RXR* and *RAR* Signaling Pathways in Heart and Eye Morphogenesis. *Cell* **78** (6): 987-1003
- Kreidberg, J.A.**, Sariola, H., Loring, J.M., Maeda, M., Pelletier, J., Housman, D., Jaenisch, R. (1993) *WT-1* is Required for Early Kidney Development. *Cell* **74** (4): 679-691
- Lanske, B.**, Karaplis, A. C., Lee, K., Luz, A., Vortkamp, A., Pirro, A., Karperien, M., Defize, L. H., Ho, C., Mulligan, R. C., Abou-Samra, A. B., Juppner, H., Segre, G. V., Kronenberg, H. M. (1996) *PTH/PTHrP* receptor in early development and Indian hedgehog-regulated bone growth. *Science* **273** (5275): 663-666

- Lee, G.S.,** Kochhar, D.M., Collins, M.D. (2004) Retinoid-Induced Limb Malformations. *Current Pharmaceutical Design* **10** (22): 2657-2699
- Lefebvre V.,** Huang W., Harley V.R., Goodfellow P.N., de Crombrughe B. (1997) SOX9 is a potent activator of the chondrocyte-specific enhancer of the pro alpha1(II) collagen gene. *Mol Cell Biol* **17** (4): 2336-46.
- Lehmann, K.,** Seemann, P., Stricker, S., Sammar, M., Meyer, B., Süring, K., Majewski, F., Tinschert, S., Grzeschik, K. H., Müller, D., Knaus, P., Nürnberg, P., Mundlos, S. (2003) Mutations in bone morphogenetic protein receptor 1B cause brachydactyly type A2. *Proc Natl Acad Sci USA* **100** (21): 12277-12282
- Masiakowski, P. & Carroll, R.D.** (1992) A Novel Family of Cell Surface Receptors with Tyrosine Kinase-like Domain. *J Biol Chem* **267** (36): 26181-26190
- Masiakowski, P. & Yancopoulos, G.D.** (1998) The Wnt receptor CRD domain is also found in MuSK and related orphan receptor tyrosine kinases. *Curr Biol* **8** (12): R407
- Masuda, Y.,** Sasaki, A., Shibuya, H., Ueno, N., Ikeda, K., Watanabe, K. (2001) Dlxin-1, a Novel Protein That Binds Dlx5 and Regulates Its Transcriptional Function. *J Biol Chem* **276** (7): 5331–5338
- Matsuda, T.,** Nomi, M., Ikeya, M., Kani, S., Oishi, I., Terashima, T., Takada, S., Minami, Y. (2001) Expression of the receptor tyrosine kinase genes, Ror1 and Ror2, during mouse development. *Mech Dev* **105** (1-2): 153-156
- Matsuda T.,** Suzuki H, Oishi I, Kani S, Kuroda Y, Komori T, Sasaki A, Watanabe K, Minami Y. (2003) The receptor tyrosine kinase Ror2 associates with the melanoma-associated antigen (MAGE) family protein Dlxin-1 and regulates its intracellular distribution. *J Biol Chem.* **278** (31): 29057-64
- McKay, S.E.,** Hislop, J., Scott, D., Bulloch, A.G., Kaczmarek, L.K., Carew, T.J., Sossin, W.S. (2001) Aplysia Ror forms clusters on the surface of identified neuroendocrine cells. *Mol Cell Neurosci* **17** (5): 821-841
- Mikels, A. & Nusse, R.** (2006) Purified Wnt5a Protein Activates or Inhibits β -Catenin-TCF Signaling Depending on Receptor Context. *PLoS Biol* **4** (4): 0570-0582
- Minina, E.,** Wenzel, H.M., Kreschel, C., Karp, S., Gaffield, W., McMahon, A.P., Vortkamp, A. (2001). BMP and Ihh/PTHrP-signaling interact to coordinate chondrocyte proliferation and differentiation. *Development* **128** (22): 4523-34
- Miller, J.** (2001) The Wnts. *Genome Biol* **3** (1): reviews 3001.1–3001.15
- Naski M.C.,** Colvin J.S., Coffin J.D., Ornitz D.M. (1998) Repression of hedgehog signaling and BMP4 expression in growth plate cartilage by fibroblast growth factor receptor 3. *Development* **125** (24): 4977-8

- Nohe, A.**, Hassel, S., Ehrlich, M., Neubauer, F., Sebald, W., Henis, Y. I., Knaus, P. (2002) The mode of bone morphogenetic protein (BMP) receptor oligomerization determines different BMP-2 signaling pathways. *J Biol Chem* **277** (7): 5330-5338
- Nomi, M.**, Oishi, I., Kani, S., Suzuki, H., Matsuda, T., Yoda, A., Kitamura, M., Itoh, K., Takeuchi, S., Takeda, K., Akira, S., Ikeya, M., Takada, S., Minami, Y. (2001) Loss of mRor1 Enhances the Heart and Skeletal Abnormalities in mRor2-Deficient Mice: Redundant and Pleiotropic Functions of mRor1 and mRor2 Receptor Tyrosine Kinases. *Mol Cell Biol* **21** (24): 8329-8335
- Oishi, I.**, Sugiyama, S., Liu, Z-J., Yamamura, H., Nishida, Y., Minami, Y. (1997) A Novel Drosophila Receptor Tyrosine kinase expressed specifically in the Nervous System. *J Biol Chem* **272** (18): 11916-11923
- Oishi, I.**, Takeuchi, S., Hashimoto, R., Nagabukuro, A., Ueda, T., Liu, Z-J., Hatta, T., Akira, S., Matsuda, Y., Yamamura, H., Otani, H., Minami, Y. (1999) Spatio-temporally regulated expression of receptor tyrosine kinases, mRor1 and mRor2, during mouse development and function in the nervous system. *Genes Cells* **4** (1): 41-56
- Oishi, I.**, Suzuki, H., Onishi, N., Takada, R., Kani, S., Ohkawara, B., Koshida, I., Suzuki, K., Yamada, G., Schwabe, G.C., Mundlos, S., Shibuya, H., Takada, S., Minami, Y. (2003) The receptor tyrosine kinase Ror2 is involved in non-canonical Wnt5a/JNK signalling pathway. *Genes Cells* **8** (7): 645-654
- Oldridge, M.**, Fortuna, A.M., Maringa, M., Propping, P., Mansour, S., Pollitt, C., DeChiara, T.M., Kimble, R.B., Valenzuela, D.M., Yancopoulos, G.D., Wilkie, A.O.M (2000) Dominant mutations in ROR2, encoding an orphan receptor tyrosine kinase, cause brachydactyly type B. *Nat Genet* **24** (3): 375-278
- Osborne, M.A.**, Dalton, S., Kochan, J.P. (1995) The Yeast Tribid System- Genetic Detection of trans-phosphorylated ITAM-SH2-Interactions. *Biotechnology* **13**, 1474-1478
- Patthy, L.**, Trexler, M., Vali, Z., Banyai, L., Varadi, A. (1984) Kringels: modules specialized for protein binding. Homology of the gelatin-binding region of fibronectin with the kringle structures of proteases. *FEBS Lett* **171** (1): 131-136
- Pawson, T. & Schlessinger, J.** (1993) SH2 and SH3 domains. *Curr Biol*. **3** (7): 434-442
- Pawson, T.** (1995) Protein modules and signaling networks. *Nature* **373** (6515): 573-580
- Polinkovsky, A.**, Robin, N.H., Thomas, J.T., Irons, M., Lynn, A., Goodman, F. R., Reardon, W., Kant, S. G., Brunner, H. G., van der Burgt, I., Chitayat, D., McGaughran, J., Donnai, D., Luyten, F. P., & Warman, M. L. (1997) Mutations in CDMP1 cause autosomal dominant brachydactyly type C. *Nat Genet* **17** (1): 18-19
- Rehn, M.**, Pihlajaniemi, T., Hofmann, K., Bucher, P. (1998) The frizzled motif: in how many different protein families does it occur? *Trends Biochem Sci* **23** (11): 415-417

- Rico, M., Mukherjee, A., Konieczkowski, M., Bruggeman, L.A., Tyler Miller, R., Khan, S., Schelling, J.R., Sedor, J.R.** (2005) WT1-interacting Protein and ZO-1 Translocate into podocyte Nuclei after Puromycin Aminonucleoside Treatment. *Am J Physiol Renal Physiol* **289**: F431-F441
- Rivera, M.N. & Haber, D.A.** (2005) Wilm's Tumor: Connecting tumorigenesis and organ development in the kidney. *Nat Rev Cancer* **5** (9): 699-712
- Robinow, M., Silverman, F.N., Smith, H.D.** (1969) A newly recognized dwarfing syndrome. *Am J Dis Child* **117** (6): 645-651
- Robledo, R.F., Rajan, L., Li, X., Lufkin, T.** (2002) The Dlx5 and Dlx6 homeobox genes are essential for craniofacial, axial and appendicular skeletal development. *Genes & Development* **16** (9): 1089-1101
- Risau, W.** (1997) Mechanisms of angiogenesis. *Nature* **386** (6626): 671-4.
- Saldanha, J., Singh, J., Mahadevan, D.** (1998) Identification of a Frizzled-like cysteine rich domain in the extracellular region of developmental receptor tyrosine kinases. *Protein Sci* **7** (8): 1632-1635
- Sambrook, J., Fritsch, E.F., Maniatis, T.** (1989) *Molecular cloning: A Laboratory Manual*. Cold Spring Harbor: Cold Spring Harbor Laboratory Press
- Sammar, M., Stricker, S., Schwabe, G.C., Sieber, C., Hartung, A., Hanke, M., Oishi, I., Pohl, J., Minami, Y., Sebald, W., Mundlos, S., Knaus, P.** (2004) Modulation of GDF5/BRI-b signalling through interaction with the tyrosine kinase receptor Ror2. *Genes Cells* **9** (12): 1227-1238
- Sasaki, A., Masuda, Y., Iwai, K., Ikeda, K., Watanabe, K.** (2002) A RING Finger Protein Praja1 Regulates Dlx5-dependent Transcription through Its Ubiquitin Ligase Activity for the Dlx/Msx-interacting MAGE/Necdin Family Protein, Dlxin-1. *J Biol Chem* **277** (25): 22541-22546
- Sasaki, A., Hinck, L., Watanabe, K.** (2005) RumMAGE-D the Members: Structure and Function of a New Adaptor Family of MAGE-D Proteins. *J Recept Signal Transduct Res* **25** (3): 181-98
- Satokata, I., Ma, L., Ohshima, H., Bei, M., Woo, I., Nishizawa, K., Maeda, T., Takano, Y., Uchiyama, M., Heaney, S., Peters, H., Tang, Z., Maxson, R., Maas, R.** (2000). Msx2 deficiency in mice causes pleiotropic defects in bone growth and ectodermal organ formation. *Nat Genet* **24**, 391–395
- Schipani, E., Ryan, H.E., Didrickson, S., Kobayashi, T., Knight, M., Johnson, R.S.** (2001) Hypoxia in cartilage: HIF-1alpha is essential for chondrocyte growth arrest and survival. *Genes Dev* **15** (21): 2865-76.
- Schlessinger, J.** (1988) Signal transduction by allosteric receptor oligomerization. *Trends Biochem Sci* **13** (11): 443-447

- Schlessinger, J.** (2000) Cell Signaling by Receptor Tyrosine Kinases. *Cell* **103** (2): 211-225
- Schwabe, G.C.,** Tinschert, S., Buschow, C., Meinecke, P., Wolff, G., Gillessen-Kaesbach, G., Oldridge, M., Wilkie, A.O.M., Kömec, R., Mundlos, S. (2000) Distinct Mutations in the Receptor Tyrosine Kinase Gene ROR2 Cause Brachydactyly Type B. *Am J Hum Genet* **67** (4): 822-831
- Schwabe, G.C.,** Trepczik, B., Süring, K., Brieske, N., Tucker, A.S., Sharpe, P.T., Minami, Y., Mundlos, S. (2004) Ror2 Knockout Mouse as a Model for the Developmental Pathology of Autosomal Recessive Robinow Syndrome. *Dev Dyn* **229** (2): 400-410
- Schwabe, G.C. & Mundlos, S.** (2004). Genetics of congenital hand anomalies. *Handchir Mikrochir Plast Chir* **36** (2-3): 85-97.
- Shi, Y.,** Luo, S., Peng, J., Huang, C., Tan, D., Hu, W. (2004) The Structure, Expression and Function of DAZAP2.A Down-Regulated Gene in Multiple Myeloma. *Geno Prot Bioinfo* **2** (1): 47-54
- Simeone, A.,** Acampora, D., Pannese, M., D'Esposito, M., Stornaiuolo A., Gulisano, M., Mallamaci, A., Kastury, K., Druck, T., Huebner, K., Boncinelli, E. (1994) Cloning and characterization of two members of the vertebrate Dlx gene family. *Proc Natl Acad Sci USA* **91** (6): 2250-2254
- Srichai, M.B.,** Konieczkowski, M., Padivar, A., Konieczkowski, D.J., Mukherjee, A., Hayden, P.S, Kamat, S., El Meanawy, M.A., Khan, S., Mundel, P., Lee, S.B., Bruggeman, L.A., Schelling, J.R., Sedor, J.R. (2004) A WT1 Co-regulator Controls Podocyte Phenotype by Shutting between Adhesion Structures and Nucleus. *J Biol Chem* **279** (14): 14398–14408
- St-Jacques B.,** Hammerschmidt, M., McMahon A.P. (1999) Indian hedgehog signaling regulates proliferation and differentiation of chondrocytes and is essential for bone formation. *Genes Dev.* **13** (16): 2072-86
- Storm, E.E.,** Huynh, T.V., Copeland, N.G., Jenkins, N.A., Kingsley, D.M., Lee, S.J. (1994) Limb alterations in brachypodism mice due to mutations in a new member of the TGF beta-superfamily. *Nature* **368** (6472): 639-643
- Sucov, H.M.,** Izpisua-Belmonte, J.C., Ganan, Y., Evans R.M. (1995) Mouse embryos lacking RXR alpha are resistant to retinoic-acid-induced limb defects. *Development* **121** (12): 3997-4003
- Tada M. & Smith J.C.** (2000) Xwnt11 is a target of Xenopus Brachyury: regulation of gastrulation movements via Dishevelled, but not through the canonical Wnt pathway. *Development.* **127** (10): 2227–2238
- Takeuchi, S.,** Takeda, K., Oishi, I., Nomi, M., Ikeya, M., Itoh, K., Tamura, S., Ueda, T., Hatta, T., Otani, H., Terashima, T., Takada, S., Yamamura, H., Akira, S., Minami, Y. (2000) Mouse Ror2 receptor tyrosine kinase is required for the heart development and limb formation. *Genes Cells* **5** (1): 71-78

- Tirole F.**, Malaguti C., Romero F., Attar R., Camonis J., Egly J.M. (1997). A conditionally expressed third partner stabilizes or prevents the formation of a transcriptional activator in a three-hybrid system. *J Biol Chem* **272** (37): 22995-22999
- Tsui, S.**, Dai, T., Roettger, S., Schempp, W., Salido, E.C., Yen, P.H. (2000) Identification of Two Novel Proteins That Interact with Germ-Cell-Specific RNA-Binding Proteins DAZ and DAZL1. *Genomics* **65** (3): 266-273
- Vortkamp, A.**, Lee, K., Lanske, B., Segre, G.V., Kronenberg, H.M., Tabin, C.J. (1996) Regulation of rate of cartilage differentiation by Indian hedgehog and PTH-related protein. *Science* **273** (5275): 613-22.
- Way, J.C. & Chalfie, M.** (1988) *mec-3*, a homeobox-containing gene that specifies differentiation of the touch receptor neurons in *C. elegans*. *Cell* **54** (1): 5-16
- Weston, A.D.**, Blumberg, B., Underhill, T.M. (2003) Active repression by unligated retinoid receptors in development: less is sometimes more. *J Cell Biol* **161** (2): 223-228
- Wiesmann, C.**, Muller, Y.A., de Vos, A.M. (2000) Ligand-binding sites in Ig-like domains of receptor tyrosine kinases. *J Mol Med* **78** (5): 247-260
- Wilson, C.**, Goberdhan, D.C., Steller, H. (1993) *Dror*, a potential neurotrophic receptor gene, encodes a *Drosophila* homolog of the vertebrate Ror family of Trk-related receptor tyrosine kinases. *Proc Natl Acad Sci USA* **90** (15): 7109-7113
- Wu, R-Y. & Gill, G.N.** (1994) LIM Domain Recognition of a Tyrosine-containing Tight Turn. *J Biol Chem* **269** (40): 25085-25090
- Wu, R-Y.**, Durick, K., Songyang, Z., Cantley, L.C., Taylor, S.S., Gill G.N. (1996) Specificity of LIM Domain Interactions with Receptor Tyrosine Kinases. *J Biol Chem* **271** (27): 15934-41
- Yi, S.E.**, Daluiski, A., Pederson, R., Rosen, V., Lyons, K.M. (2000) The type I BMP receptor BMPRII is required for chondrogenesis in the mouse limb. *Development*, **127** (3): 621-630
- Zhang, H.**, Hu, G., Wang, H., Sciavolino, P., Iler, N., Shen, M.M., Abate-Shen, C. (1997) Heterodimerization of Msx and Dlx homeoproteins results in functional antagonism. *Mol Cell Biol*, **17** (5): 2920-2932
- Zou, H.**, Wieser, R., Massague, J., Niswander, L. (1997) Distinct roles of type I bone morphogenetic protein receptors in the formation and differentiation of cartilage. *Genes Dev* **11** (17): 2191-2203