

6. Bibliography

- Anton ES, Ghashghaei HT, Weber JL, McCann C, Fischer TM, Cheung ID, Gassmann M, Messing A, Klein R, Schwab MH, Lloyd KC, Lai C (2004) Receptor tyrosine kinase ErbB4 modulates neuroblast migration and placement in the adult forebrain. *Nat Neurosci* **7**:1319–1328.
- Bagnard D, Lohrum M, Uziel D, Püschel AW, Bolz J (1998). Semaphorins act as attractive and repulsive guidance signals during the development of cortical projections. *Development*. **125**: 5043-53.
- Bessa J, Gebelein B, Pichaud F, Casares F, Mann RS. (2002) Combinatorial control of Drosophila eye development by eyeless, homothorax, and teashirt. *Genes Dev*. **16**: 2415-27
- Bessa J, Casares F. (2005). Restricted teashirt expression confers eye-specific responsiveness to Dpp and Wg signals during eye specification in Drosophila. *Development*. **132**: 5011-20.
- Birnboim, H.C. and J. Doly (1979). A rapid alkaline extraction procedure for screening recombinant plasmid DNA. *Nucleic Acids Res* **7**: 1513-23.
- Bradley, A. and Robertson, E. (1986). Embryo-derived stem cells: a tool for elucidating the developmental genetics of the mouse. *Curr Top Dev Biol* **20**: 357-71
- Bu DF, Erlander MG, Hitz BC, Tillakaratne NJ, Kaufman DL, Wagner-McPherson CB, Evans GA, Tobin AJ (1992). Two human glutamate decarboxylases, 65-kDa GAD and 67-kDa GAD, are each encoded by a single gene. *Proc Natl Acad Sci* **89**:2115-9.
- Bulfone A, Wang F, Hevner R, Anderson S, Cutforth T, Chen S, Meneses J, Pedersen R, Axel R, Rubenstein JL (1998) An olfactory sensory map develops in the absence of normal projection neurons or GABAergic interneurons. *Neuron* **21**:1273–1282.
- Bunting M, Bernstein KE, Greer JM, Capecchi MR, Thomas KR (1999). Targeting genes for self-excision in the germ line. *Genes Dev.*, **13**: 1524-8.
- Casarosa S, Fode C, Guillemot F (1999) Mash1 regulates neurogenesis in the ventral telencephalon. *Development* **126**:525–534.
- Caubit X, Coré N, Boned A, Kerridge S, Djabali M, Fasano L. (2000) Vertebrate orthologues of the Drosophila region-specific patterning gene teashirt. *Mech Dev*. **91**: 445-8
- Caubit X, Tiveron MC, Cremer H, Fasano L. (2005) Expression patterns of the three Teashirt-related genes define specific boundaries in the developing and postnatal mouse forebrain. *J Comp Neurol*. **486**: 76-88.
- Chen JH, Wen L, Dupuis S, Wu JY, Rao Y (2001) The N-terminal leucine-rich regions in Slit are sufficient to repel olfactory bulb axons and subventricular zone neurons. *J Neurosci* **21**:1548–1556.
- Chen H, He Z, Bagri A, Tessier-Lavigne M (1998). Semaphorin-neuropilin interactions underlying sympathetic axon responses to class III semaphorins. *Neuron*. **21**(6):1283-90.
- Choe A, Phun HQ, Tieu DD, Hu YH, Carpenter EM (2006). Expression patterns of Hox10 paralogous genes during lumbar spinal cord development. *Gene Expr Patterns*. **6**: 730-7

- Comeau MR, Johnson R, DuBose RF, Petersen M, Gearing P, VandenBos T, Park L, Farrah T, Buller RM, Cohen JI, Strockbine LD, Rauch C, Spriggs MK. (1998) A poxvirus-encoded semaphorin induces cytokine production from monocytes and binds to a novel cellular semaphorin receptor, VESPR. *Immunity*. 8: 473-82.
- Copeland, N.G., Jenkins, N.A. & Court, D.L. (2001). Recombineering: a powerful new tool for mouse functional genomics. *Nat. Rev. Genet.* **2**, 769-779
- Corbin JG, Gaiano N, Machold RP, Langston A, Fishell G (2000) The Gsh2 homeodomain gene controls multiple aspects of telencephalic development. *Development* **127**:5007–5020.
- Coré N, Caubit X, Metchat A, Boned A, Djabali M, Fasano L. Tshz1 is required for axial skeleton, soft palate and middle ear development in mice. *Dev Biol.* 2007 Aug 15;308(2):407-20. Epub 2007 Jun 4.
- De Zulueta P, Alexandre E, Jacq B, Kerridge S. (1994) Homeotic complex and teashirt genes co-operate to establish trunk segmental identities in Drosophila. *Development*. **120**:2287-96.
- Eisenstat DD, Liu JK, Mione M, Zhong W, Yu G, Anderson SA, Ghattas I, Puelles L, Rubenstein JL (1999) DLX-1, DLX-2, and DLX-5 expression define distinct stages of basal forebrain differentiation. *J Comp Neurol* **414**:217–237.
- Erlander MG, Tillakaratne NJ, Feldblum S, Patel N, Tobin AJ (1991). Two genes encode distinct glutamate decarboxylases. *Neuron*. **7**: 91-100
- Esclapez M, Tillakaratne NJ, Tobin AJ, Houser CR (1993). Comparative localization of mRNAs encoding two forms of glutamic acid decarboxylase with nonradioactive in situ hybridization methods. *J Comp Neurol*. **331**: 339-62.
- Fasano L, Röder L, Coré N, Alexandre E, Vola C, Jacq B, Kerridge S. (1991) The gene a protein with widely spaced zinc finger motifs. *Cell*. **64**: 63-79.
- Firestein BL, Brenman JE, Aoki C, Sanchez-Perez AM, El-Husseini AE, Bredt DS. (1999) Cypin: a cytosolic regulator of PSD-95 postsynaptic targeting. *Neuron*. **24**: 659-72.
- Firestein, S. 2001. How the olfactory system makes sense of scents. *Nature* **413**: 211-218
- Gall, C. M., Hendry, S. H., Seroogy, K. B., Jones, E. G. & Haycock, J. W (1987). Evidence for coexistence of GABA and dopamine in neurons of the rat olfactory bulb. *J. Comp. Neurol.* **266**: 307–318
- Gallet A, Erkner A, Charroux B, Fasano L, Kerridge S (1998). Trunk-specific modulation of wingless signalling in Drosophila by teashirt binding to armadillo. *Curr Biol*. **8**: 893-902
- Gallet A, Angelats C, Erkner A, Charroux B, Fasano L, Kerridge S (1999). The C-terminal domain of armadillo binds to hypophosphorylated teashirt to modulate wingless signalling in Drosophila. *EMBO J*. **18**:2208-17
- Gentleman RC, Carey VJ, Bates DM, Bolstad B, Dettling M, Dudoit S, Ellis B, Gautier L, Ge Y, Gentry J, Hornik K, Hothorn T, Huber W, Iacus S, Irizarry R, Leisch F, Li C, Maechler M, Rossini AJ, Sawitzki G, Smith C, Smyth G, Tierney L, Yang JY, Zhang J. (2004) Bioconductor: open software development for computational biology and bioinformatics. *Genome Biol.* **5(10)**:R80.
- Goddard J.M., Rossel M., Manley N.R. and Capecchi M.R., (1996). Mice with targeted

disruption of *Hoxb-1* fail to form the motor nucleus of the VIIth nerve, *Development* **122** (1996), pp. 3217–3228.

Ghashghaei HT, Lai C and Anton ES (2007). Neuronal migration in the adult brain: are we there yet?. *Nature Reviews Neuroscience*, **8**: 141-151

Goldman SA, Luskin MB (1998). Strategies utilized by migrating neurons of the postnatal vertebrate forebrain. *Trends Neurosci.* **21**, 107-114

Goshima Y, Nakamura F, Strittmatter P, Strittmatter SM (1995). Collapsin-induced growth cone collapse mediated by an intracellular protein related to UNC-33. *Nature*. **376**: 509-14.

Graham A, Maden M, Krumlauf R. (1991) The murine Hox-2 genes display dynamic dorsoventral patterns of expression during central nervous system development. *Development*. **112**:2 55-64.

Hack I, Bancila M, Loulier K, Carroll P, Cremer H (2002). Reelin is a detachment signal in tangential chain-migration during postnatal neurogenesis. *Nat Neurosci.* **5**: 939-45.

Hack MA, Saghatelyan A, de Chevigny A, Pfeifer A, Ashery-Padan R, Lledo PM, Gotz M (2005) Neuronal fate determinants of adult olfactory bulb neurogenesis. *Nat Neurosci* **8**: 865–872.

Hildebrand,J.C. & Shepherd,G.M (1997). Mechanisms of olfactory discrimination: converging evidence for common principles across phyla. *Annu. Rev. Neurosci.* **20**: 595-631

Hirata T, Nakazawa M, Yoshihara S, Miyachi H, Kitamura K, Yoshihara Y, Hibi M. (2006) Zinc-finger gene Fez in the olfactory sensory neurons regulates development of the olfactory bulb non-cell-autonomously. *Development*. **133**:1433-43

Hooper, M., K. Hardy, A. Handyside, S. Hunter, and M. Monk. 1987. HPRT-deficient(LeschNyhan) mouse embryos derived from germline colonization by cultured cells. *Nature* 326: 292-5.

Hu, H., Tomasiewicz, H., Magnuson, T. & Rutishauser, U (1996). The role of polysialic acid in migration of olfactory bulb interneuron precursors in the subventricular zone. *Neuron* **16**, 735–743.

Koebernick K, Kashev J, Pieler T, Wedlich D. Xenopus (2006). Teashirt1 regulates posterior identity in brain and cranial neural crest. *Dev Biol.* **298**: 312-26.

Kohwi M, Osumi N, Rubenstein JL, Alvarez-Buylla A (2005) Pax6 is required for making specific subpopulations of granule and periglomerular neurons in the olfactory bulb. *J Neurosci* **25**: 6997–7003.

Kolodkin AL, Levengood DV, Rowe EG, Tai YT, Giger RJ, Ginty DD (1997). Neuropilin is a semaphorin III receptor. *Cell*. **90**: 753-62.

Koppell AM, Feiner L, Kobayashi H, Raper JA (1997). A 70 amino acid region within the semaphorin domain activates specific cellular response of semaphorin family members. *Neuron*. **19**: 531-7.

Kohwi M, Osumi N, Rubenstein JL, Alvarez-Buylla A. (2005) Pax6 is required for making specific subpopulations of granule and periglomerular neurons in the olfactory bulb. *J Neurosci*. **25**: 6997-7003.

- Kosaka K., Toida K., Margolis F. L. and Kosaka T. (1996) Chemically defined neuron groups and their subpopulations in the glomerular layer of the rat main olfactory bulb: prominent differences in the intraglomerular dendritic arborization and their relationship to olfactory nerve terminals. *Neuroscience*, **76**: 775-786
- Kozak, M. (1987). An analysis of 5'-noncoding sequences from 699 vertebrate messenger RNAs. *Nucleic Acids Res.* **15**: 8125-48
- Kühn, R., K. Rajewsky, and W. Müller. (1991). Generation and analysis of interleukin-4 deficient mice. *Science* **254**: 707-10.
- Innis, M.A., D.H. Gelfand, and J.J. Sninsky (1989). PCR Protocols: A Guide To Methods And Applications. In, pp. 482. Academic Press, San Diego, CA 92101-4495, USA.
- Jerpseth, B., A. Greener, J.M. Short, J. Viola, and P. Kretz. (1992). XL1-Blue MRF' E. coli cells: McrA-, McrCB-, McrF-, Mrr-, HsdR- derivative of XL1-Blue cells. *Strategies* **5**: 81-83.
- Laugier E, Yang Z, Fasano L, Kerridge S, Vola C. (2005) A critical role of teashirt for patterning the ventral epidermis is masked by ectopic expression of tiptop, a paralog of teashirt in Drosophila. *Dev Biol.* **283**: 446-58.
- Lee, E. C., Yu, D., Martinez de Velasco, J., Tessarollo, L., Swing, D. A., Court, D. L., Jenkins, N. A. and Copeland, N. G. (2001). A highly efficient Escherichia colibased chromosome engineering system adapted for recombinogenic targeting and subcloning of BAC DNA. *Genomics* **73**, 56-65.
- Lemasson M, Saghatelian A, Olivo-Marin JC, Lledo PM. (2005) Neonatal and adult neurogenesis provide two distinct populations of newborn neurons to the mouse olfactory bulb. *J Neurosci.* **25**: 6816-25.
- Lin DM, Ngai J. (1999). Development of the vertebrate main olfactory system. *Current Opinion in Neurobiology*, **9**: 74-78
- Lin A. and Carpenter E.M., (2003). *Hoxa10* and *Hoxd10* coordinately regulate lumbar motor neuron patterning, *J. Neurobiol.* **56** : 328–337.
- Long Q, Park BK, Ekker M. (2001) Expression and regulation of mouse Mtsh1 during limb and branchial arch development. *Dev Dyn.* **222**: 308-12.
- Long JE, Garel S, Depew MJ, Tobet S, Rubenstein JL (2003) DLX5 regulates development of peripheral and central components of the olfactory system. *J Neurosci* **23**:568–578.
- Long JE, Garel S, Alvarez-Dolado M, Yoshikawa K, Osumi N, Alvarez-Buylla A, Rubenstein JL (2007). Dlx-dependent and -independent regulation of olfactory bulb interneuron differentiation. *JNeurosci*. **27**: 3230-43.
- Lopez-Mascaraque L and DeCastro F (2002). The olfactory bulb as an independent developmental domain. *Cell Death and Differentiation* **9**, 1279-1286.
- Luo Y, Raible D, Raper JA (1993). Collapsin: a protein in brain that induces the collapse and paralysis of neuronal growth cones. *Cell*. **75**: 217-27.
- Manfroid I, Caubit X, Kerridge S, Fasano L (2004). Three putative murine Teashirt orthologues specify trunk structures in Drosophila in the same way as the Drosophila teashirt gene. *Development*. **131**: 1065-73.

6. Bibliography

- Manfroid I, Caubit X, Marcelle C, Fasano L. (2006) Teashirt 3 expression in the chick embryo reveals a remarkable association with tendon development. *Gene Expr Patterns*, **6**: 808-912
- Mansour SL, Thomas KR, Capecchi MR (1988). Disruption of the proto-oncogene int-2 in mouse embryo-derived stem cells: a general strategy for targeting mutations to non-selectable genes. *Nature*. **336**: 348-52.
- Marín O, Rubenstein JL (2001). A long, remarkable journey: tangential migration in the telencephalon. *Nat Rev Neurosci*. **2**: 780-90.
- Marín O, Yaron A, Bagri A, Tessier-Lavigne M, Rubenstein JL. 2001. Sorting of striatal and cortical interneurons regulated by semaphorin/neuropilin interactions. *Science* **293**: 872– 75
- Marín O, Rubenstein JL (2003) Cell migration in the forebrain. *Annu Rev Neurosci*; **26**:441-83.
- Martin,J. & Jessell,T (1995). “Essentials of Neural Science and Behavior” (Chapter 20). Eds: Kandel, E.R. & Schwartz, J.H. Stamford (Conn): McGraw-Hill/Appleton Lange.
- Mombaerts P, Wang F, Dulac C, Chao SK, Nemes A, Mendelsohn M, Edmondson J, Axel R. (1996) Visualizing an olfactory sensory map. *Cell* **87**, 675–686
- Murakami Y, Suto F, Shimizu M, Shinoda T, Kameyama T, Fujisawa H. (2001). Differential expression of plexin-A subfamily members in the mouse nervous system. *Dev Dyn*. **220**(3):246-58.
- Nacher J, Crespo C, McEwen BS (2001). Doublecortin expression in the adult rat telencephalon. *Eur J Neurosci*. **14**: 629-44
- Nguyen-Ba-Charvet KT, Picard-Riera N, Tessier-Lavigne M, Baron-Van Evercooren A, Sotelo C, Chédotal A (2004). Multiple roles for Slits in the control of cell migration in the rostral migratory stream. *J. Neurosci*. **24**, 1497–1506.
- Onai T, Matsuo-Tasaki M, Inomata H, Aramaki T, Matsumura M, Yakura R, Sasai N, Sasai Y. (2007) XTsh3 is an essential enhancing factor of canonical Wnt signaling in Xenopus axial determination. *EMBO J*. **26**: 2350-60.
- Orona,E., Scott,J. W., and Rainer,E.C. (1983). Different granule cell populations innervate superficial and deep regions of the external plexiform layer in the rat olfactory bulb. *J. Comp. Neurol*. **217**: 227-237.
- Qiu M, Bulfone A, Martinez S, Meneses JJ, Shimamura K, Pedersen RA, Rubenstein JL (1995) Null mutation of Dlx-2 results in abnormal morphogenesis of proximal first and second branchial arch derivatives and abnormal differentiation in the forebrain. *Genes Dev* **9**: 2523–2538.
- Ng KL, Li JD, Cheng MY, Leslie FM, Lee AG, Zhou QY (2005) Dependence of olfactory bulb neurogenesis on prokineticin 2 signaling. *Science* **308**: 1923–1927.
- Nacher j, Crespo C, mcewen BS (2001) Doublecortin expression in the adult rat telencephalon. *European Journal of Neuroscience*, **14**: 629-644
- Nomura T, Osumi N (2004) Misrouting of mitral cell progenitors in the Pax6/small eye rat telencephalon. *Development* **131**: 787–796.

- Nomura T, Holmberg J, Frisen J, Osumi N (2006) Pax6-dependent boundary defines alignment of migrating olfactory cortex neurons via the repulsive activity of ephrin A5. *Development* **133**: 1335–1345
- Pan D., Rubin GM, (1998). Targeted expression of teashirt induces ectopic eyes in *Drosophila*. *Proc. Natl. Acad. Sci. USA*, **95**: 15508-15512
- Robertson LK, Bowling DB, Mahaffey JP, Imiolczyk B, Mahaffey JW (2004) An interactive network of zinc-finger proteins contributes to regionalization of the *Drosophila* embryo and establishes the domains of HOM-C protein function. *Development*.**131**: 2781-9
- Röder L, Vola C, Kerridge S (1992) The role of the teashirt gene in trunk segmental identity in *Drosophila*. *Development*. **115**: 1017-33
- Rohm B, Ottmeyer A, Lohrum M, Püschel AW. (2000) Plexin/neuropilin complexes mediate repulsion by the axonal guidance signal semaphorin 3A. *Mech Dev.* **93**: 95-104
- Rossant J, Nagy A. (1995) Genome engineering: the new mouse genetics. *Nat Med.* **6**:592-4.
- Rousselot, P., Lois, C. & Alvarez-Buylla, A. (1995). Embryonic (PSA) N-CAM reveals chains of migrating neuroblasts between the lateral ventricle and the olfactory bulb of adult mice. *J. Comp. Neurol.* **351**: 51–61
- Sambrook, J. and D.W. Russell. 2001. *Molecular Cloning: A Laboratory Manual*. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York 11803-2500, USA.
- Sanger, F., S. Nicklen, and A.R. Coulson. (1977). DNA sequencing with chain-terminating inhibitors. *Proc Natl Acad Sci U S A* **74**: 5463-7.
- Sawamoto K, Wichterle H, Gonzalez-Perez O, Cholfin JA, Yamada M, Spassky N, Murcia NS, Garcia-Verdugo JS, Marin O, Rubenstein JLR, Tessier-Lavigne M, Okano H, Alvarez-Buylla A (2006) Subventricular neuroblasts follow the flow of cerebrospinal fluid in the adult brain. *Science* **311**: 629–632.
- Serini G, Valdembri D, Zanivan S, Morterra G, Burkhardt C, Caccavari F, Zammataro L, Primo L, Tamagnone L, Logan M, Tessier-Lavigne M, Taniguchi M, Püschel AW, Bussolino F. (2003) Class 3 semaphorins control vascular morphogenesis by inhibiting integrin function. *Nature*. **424**: 391-7.
- Singh A, Kango-Singh M, Sun YH. (2002) Eye suppression, a novel function of teashirt, requires Wingless signaling. *Development*, **129**: 4271-80
- Smyth, G. K. (2005). Limma: linear models for microarray data. In Bioinformatics and Computational Biology Solutions using R and Bioconductor, (ed. R. Gentleman V. Carey S. Dudoit R. Irizarry and W. Huber), pp. 397-420. New York: Springer.
- Southern, E.M. (1975). Detection of specific sequences among DNA fragments separated by gel electrophoresis. *J Mol Biol* **98**: 503-17.
- Stenman J, Toresson H, Campbell K (2003) Identification of two distinct progenitor populations in the lateral ganglionic eminence: implications for striatal and olfactory bulb neurogenesis. *J Neurosci*. **23**: 167-74.
- Su HY, Liu HJ, Chen SC, Lin CT, Lien YY, Cheng WT. (2004) A novel gene homologous to

6. Bibliography

teashirt is differentially expressed in neonatal mouse skin during development of hair follicles. *Mol Biotechnol.* **28**: 9-20.

Suzuki SO and Goldman JE (2003). Multiple cell populations in the early postnatal subventricular zone take distinct migratory pathways: a dynamic study of glial and neuronal progenitor migration. *Journal of Neuroscience*, **23**: 4240-4250

Tabor, S. and C.C. Richardson. (1987). DNA sequence analysis with a modified bacteriophage T7 DNA polymerase. *Proc Natl Acad Sci U S A* **84**: 4767-71.

Takahashi T, Fournier A, Nakamura F, Wang LH, Murakami Y, Kalb RG, Fujisawa H, Strittmatter SM. (1999) Plexin-neuropilin-1 complexes form functional semaphorin-3A receptors. *Cell*. **99**:59-69.

Takayuki O., matsuo-takasaki M., Inomata H., Arakamaki T., matsumura M., Yakura R., Sasai N., Sasai Y. (2007). Xtsh3 is an essential enhancing factor of canonical Wnt signaling in Xenopus axial determination. *EMBO J.*, **26**: 2350-2360

Tamagnone L, Artigiani S, Chen H, He Z, Ming GI, Song H, Chedotal A, Winberg ML, Goodman CS, Poo M, Tessier-Lavigne M, Comoglio PM (1999). Plexins are a large family of receptors for transmembrane, secreted, and GPI-anchored semaphorins in vertebrates. *Cell*. **99**: 71-80.

Tamagnone L., Comoglio PM (2000). Signalling by semaphoring receptors:cell guidance and beyond. *Trends Cell Biol* **10**: 377-383.

Taniguchi M, Yuasa S, Fujisawa H, Naruse I, Saga S, Mishina M, Yagi T. (1997) Disruption of semaphorin III/D gene causes severe abnormality in peripheral nerve projection. *Neuron*. **19**: 519-30.

Thomas KR, Capecchi MR (1987). Site-directed mutagenesis by gene targeting in mouse embryo-derived stem cells. *Cell*. **51**: 503-12.

Tiret L., Le Mouellic H., Maury M. and Brulet P., (1998). Increased apoptosis of motoneurons and altered somatotopic maps in the brachial spinal cord of Hoxc-8-deficient mice, *Development* **125**

Toida K., Kosaka K., Heizmann W.C., Kosaka T. (1998). Chemically defined neuron groups and their subpopulations in the glomerular layer of the rat main olfactory bulb: III. Structural features of calbindin D28K-immunoreactive neurons. *Journ. Comp. Neurob.*, **322**: 179-198

Toresson H, Potter SS, Campbell K (2000) Genetic control of dorsal-ventral identity in the telencephalon: opposing roles for Pax6 and Gsh2. *Development* **127**:4361–4371.

Tucker ES, Polleux F, LaMantia AS (2006) Position and time specify the migration of a pioneering population of olfactory bulb interneurons. *Dev Biol*. **297**: 387-401.

Vergaño-Vera E, Yusta-Boyo MJ, de Castro F, Bernad A, de Pablo F, Vicario-Abejón C. (2006) Generation of GABAergic and dopaminergic interneurons from endogenous embryonic olfactory bulb precursor cells. *Development*. **133**: 4367-79.

- Waclaw RR, Allen ZJ II, Bell SM, Erdelyi F, Szabo G, Potter SS, Campbell K (2006) The zinc finger transcription factor Sp8 regulates the generation and diversity of olfactory bulb interneurons. *Neuron* **49**: 503–516.
- Waltzer L, Vandel L, Bienz M. (2001) Teashirt is required for transcriptional repression mediated by high Wingless levels. *EMBO J.* **20**: 137-45.
- Wang H, Lee EM, Sperber SM, Lin S, Ekker M, Long Q. (2007) Isolation and expression of zebrafish zinc-finger transcription factor gene tsh1. *Gene Expr Patterns.* **7**: 318-22.
- Wichterle H, Turnbull DH, Nery S, Fishell G, Alvarez-Buylla A (2001). In utero fate mapping reveals distinct migratory pathways and fates of neurons born in the mammalian basal forebrain. *Development.* **128**: 3759-71.
- Winberg ML, Noordermeer JN, Tamagnone L, Comoglio PM, Spriggs MK, Tessier-Lavigne M, Goodman CS (1998). Plexin A is a neuronal semaphorin receptor that controls axon guidance. *Cell.* **95**: 903-16.
- Wonders CP and Anderson SA (2006). The origin and specification of cortical interneurons. *Nature Reviews Neuroscience* **7**: 687-696
- Wu W, Wong K, Chen J, Jiang Z, Dupuis S, Wu JY, Rao Y (1999). Directional guidance of neuronal migration in the olfactory system by the protein Slit. *Nature* **400**, 331–336.
- Yoshihara S, Omichi K, Yanazawa M, Kitamura K, Yoshihara Y (2005). Arx homeobox gene is essential for development of mouse olfactory system. *Development.* **132**: 751-62.
- Young KM, Fogarty M, Kessaris N, Richardson WD (2007). Subventricular zone stem cells are heterogeneous with respect to their embryonic origins and neurogenic fates in the adult olfactory bulb. *J Neurosci.* **27**: 8286-96.
- Yu, D., Ellis, H. M., Lee, E. C., Jenkins, N. A., Copeland, N. G. and Court, D. L. (2000). An efficient recombination system for chromosome engineering in Escherichia coli. *Proc. Natl. Acad. Sci. U S A* **97**: 5978-83.
- Yun K, Potter S, Rubenstein JL (2001). Gsh2 and Pax6 play complementary roles in dorsoventral patterning of the mammalian telencephalon. *Development.* **128**: 193-205.
- Yun K, Fischman S, Johnson J, Hrabe de Angelis M, Weinmaster G, Rubenstein JL (2002) Modulation of the notch signaling by Mash1 and Dlx1/2 regulates sequential specification and differentiation of progenitor cell types in the subcortical telencephalon. *Development* **129**: 5029–5040
- Yun K, Garel S, Fischman S, Rubenstein JL (2003) Patterning of the lateral ganglionic eminence by the Gsh1 and Gsh2 homeobox genes regulates striatal and olfactory bulb histogenesis and the growth of axons through the basal ganglia. *J Comp Neurol* **461**:151–165.
- Zhijin, W., Irizarry, R. A., Gentleman, R., Martinez-Murillo, F. and Spencer, F. (2004). A Model Based Background Adjustment for Oligonucleotide Expression Arrays. *J. Am. Stat. Assoc.* **99**, 909–917.