

CHLD0071: Molecular and Clinical Aspects of Childhood Cancers

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Azarova, Anna M., Gargi Gautam, and Rani E. George. 'Emerging Importance of ALK in Neuroblastoma'. *Seminars in Cancer Biology* 21.4 (2011): 267–275. Web.

Beierle, Elizabeth A. 'MYCN, Neuroblastoma and Focal Adhesion Kinase (FAK)'. *Frontiers in bioscience (Elite edition)* 3 n. pag. Web.
<<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3171213/>>.

Bell, Emma et al. 'MYCN Oncoprotein Targets and Their Therapeutic Potential'. *Cancer Letters* 293.2 (2010): 144–157. Web.

Bender, Sebastian et al. 'Reduced H3K27me3 and DNA Hypomethylation Are Major Drivers of Gene Expression in K27M Mutant Pediatric High-Grade Gliomas'. *Cancer Cell* 24.5 (2013): 660–672. Web.

Berry, Teeara et al. 'The ALKF1174L Mutation Potentiates the Oncogenic Activity of MYCN in Neuroblastoma'. *Cancer Cell* 22.1 (2012): 117–130. Web.

Bleggi-Torres, Luiz Fernando et al. 'Accuracy of the Smear Technique in the Cytological Diagnosis of 650 Lesions of the Central Nervous System'. *Diagnostic Cytopathology* 24.4 (2001): 293–295. Web.

Blümcke, Ingmar et al. 'Low-Grade Epilepsy-Associated Neuroepithelial Tumours — the 2016 WHO Classification'. *Nature Reviews Neurology* 12.12 (2016): 732–740. Web.

Brodeur, Garrett M. 'Neuroblastoma: Biological Insights into a Clinical Enigma'. *Nature Reviews Cancer* 3.3 (2003): 203–216. Web.

Brodeur, Garrett M., and Rochelle Bagatell. 'Mechanisms of Neuroblastoma Regression'. *Nature Reviews Clinical Oncology* 11.12 (2014): 704–713. Web.

Brown, Christine E. et al. 'Regression of Glioblastoma after Chimeric Antigen Receptor T-Cell Therapy'. *New England Journal of Medicine* 375.26 (2016): 2561–2569. Web.

Buckner, Tyler, Julie Blatt, and Scott Victor Smith. 'The Autopsy in Pediatrics and Pediatric Oncology: A Single-Institution Experience'. *Pediatric and Developmental Pathology* 9.5 (2006): 374–380. Web.

Burkhart, C. A. et al. 'Effects of MYCN Antisense Oligonucleotide Administration on Tumorigenesis in a Murine Model of Neuroblastoma'. *JNCI Journal of the National Cancer Institute* 95.18 (2003): 1394–1403. Web.

- Chen, L. et al. 'P53 Is a Direct Transcriptional Target of MYCN in Neuroblastoma'. *Cancer Research* 70.4 (2010): 1377–1388. Web.
- Chhabda, Sahil et al. 'The 2016 World Health Organization Classification of Tumours of the Central Nervous System: What the Paediatric Neuroradiologist Needs to Know'. *Quantitative Imaging in Medicine and Surgery* 6.5 (2016): 486–489. Web.
- 'Children's Cancer Statistics | Cancer Research UK'. N.p., n.d. Web.
<<http://www.cancerresearchuk.org/health-professional/cancer-statistics/childrens-cancers>>.
- Cossu, Irene et al. 'Neuroblastoma-Targeted Nanocarriers Improve Drug Delivery and Penetration, Delay Tumor Growth and Abrogate Metastatic Diffusion'. *Biomaterials* 68 (2015): 89–99. Web.
- Ellison, David W. et al. 'β-Catenin Status Predicts a Favorable Outcome in Childhood Medulloblastoma: The United Kingdom Children's Cancer Study Group Brain Tumour Committee'. *Journal of Clinical Oncology* 23.31 (2005): 7951–7957. Web.
- Evans, A E, E Baum, and R Chard. 'Do Infants with Stage IV-S Neuroblastoma Need Treatment?' *Archives of Disease in Childhood* 56.4 (1981): 271–274. Web.
- Fisher, Jonathan et al. 'Avoidance of On-Target Off-Tumor Activation Using a Co-Stimulation-Only Chimeric Antigen Receptor'. *Molecular Therapy* 25.5 (2017): 1234–1247. Web.
- Garrett M. Brodeur, Robert C. Seeger, Manfred Schwab, Harold E. Varmus and J. Michael Bishop. 'Amplification of N-Myc in Untreated Human Neuroblastomas Correlates with Advanced Disease Stage'. *Science* 224.4653 (1984): 1121–1124. Web.
<<http://www.jstor.org/stable/1692440>>.
- Ghorashian, Sara, Persis Amrolia, and Paul Veys. 'Open Access? Widening Access to Chimeric Antigen Receptor (CAR) Therapy for ALL'. *Experimental Hematology* 66 (2018): 5–16. Web.
- Gibson, Paul et al. 'Subtypes of Medulloblastoma Have Distinct Developmental Origins'. *Nature* 468.7327 (2010): 1095–1099. Web.
- Goschzik, Tobias et al. 'Genomic Alterations of Adamantinomatous and Papillary Craniopharyngioma'. *Journal of Neuropathology & Experimental Neurology* (2017): n. pag. Web.
- Greaves, Mel F., and Joe Wiemels. 'Origins of Chromosome Translocations in Childhood Leukaemia'. *Nature Reviews Cancer* 3.9 (2003): 639–649. Web.
- Guglielmi, L et al. 'MYCN Gene Expression Is Required for the Onset of the Differentiation Programme in Neuroblastoma Cells'. *Cell Death & Disease* 5.2 (2014): e1081–e1081. Web.
- Gump, Jacob M et al. 'Identification of Targets for Rational Pharmacological Therapy in Childhood Craniopharyngioma'. *Acta Neuropathologica Communications* 3.1 (2015): n.

pag. Web.

Hanahan, Douglas, and Robert A Weinberg. 'The Hallmarks of Cancer'. *Cell* 100.1 (2000): 57-70. Web.

Hanahan, Douglas, and Robert A. Weinberg. 'Hallmarks of Cancer: The Next Generation'. *Cell* 144.5 (2011): 646-674. Web.

Hashizume, Rintaro et al. 'Pharmacologic Inhibition of Histone Demethylation as a Therapy for Pediatric Brainstem Glioma'. *Nature Medicine* 20.12 (2014): 1394-1396. Web.

Hasle, Henrik, and Charlotte M. Niemeyer. 'Advances in the Prognostication and Management of Advanced MDS in Children'. *British Journal of Haematology* 154.2 (2011): 185-195. Web.

Hill, Rebecca M. et al. 'Combined MYC and P53 Defects Emerge at Medulloblastoma Relapse and Define Rapidly Progressive, Therapeutically Targetable Disease'. *Cancer Cell* 27.1 (2015): 72-84. Web.

Hourigan, Christopher S., and Judith E. Karp. 'Minimal Residual Disease in Acute Myeloid Leukaemia'. *Nature Reviews Clinical Oncology* 10.8 (2013): 460-471. Web.

Huang, M., and W. A. Weiss. 'Neuroblastoma and MYCN'. *Cold Spring Harbor Perspectives in Medicine* 3.10 (2013): a014415-a014415. Web.

Huber, Katrin, Chaya Kalcheim, and Klaus Unsicker. 'The Development of the Chromaffin Cell Lineage from the Neural Crest'. *Autonomic Neuroscience* 151.1 (2009): 10-16. Web.

Hubert, Christopher G. et al. 'A Three-Dimensional Organoid Culture System Derived from Human Glioblastomas Recapitulates the Hypoxic Gradients and Cancer Stem Cell Heterogeneity of Tumors Found'. *Cancer Research* 76.8 (2016): 2465-2477. Web.

Hunger, Stephen P., and Charles G. Mullighan. 'Acute Lymphoblastic Leukemia in Children'. *New England Journal of Medicine* 373.16 (2015): 1541-1552. Web.

International Agency for Research on Cancer. WHO Classification of Tumours of the Central Nervous System. Ed. David N. Louis et al. Revised 4th edition. Lyon: International Agency for Research on Cancer, 2016. Print.

Johnson, Laura A, and Carl H June. 'Driving Gene-Engineered T Cell Immunotherapy of Cancer'. *Cell Research* 27.1 (2017): 38-58. Web.

Kirsti Sirkiä, Ulla M. Saarinen-Pihkala, Liisa Hovi, Hannu Sariola. 'Autopsy in Children with Cancer Who Die While in Terminal Care'. *Medical and Pediatric Oncology* 30.5 (1998): 284-289. Web.
<[https://onlinelibrary.wiley.com/doi/abs/10.1002/\(SICI\)1096-911X\(199805\)30:5%3C284::AID-MPO4%3E3.0.CO;2-B](https://onlinelibrary.wiley.com/doi/abs/10.1002/(SICI)1096-911X(199805)30:5%3C284::AID-MPO4%3E3.0.CO;2-B)>.

Klebanoff, Christopher A, Steven A Rosenberg, and Nicholas P Restifo. 'Prospects for Gene-Engineered T Cell Immunotherapy for Solid Cancers'. *Nature Medicine* 22.1 (2016): 26-36. Web.

- Koebel, Catherine M. et al. 'Adaptive Immunity Maintains Occult Cancer in an Equilibrium State'. *Nature* 450.7171 (2007): 903–907. Web.
- Korshunov, Andrey Sturm, Dominik Ryzhova, Marina Hovestadt, Volker Gessi, Marco. 'Embryonal Tumor with Abundant Neuropil and True Rosettes (ETANTR), Ependymoblastoma, and Medulloepithelioma Share Molecular Similarity and Comprise a Single Clinicopathological Entity'. *Acta Neuropathologica* 128.8 279–89. Web.
<<https://search.proquest.com/docview/1545765655?OpenUrlRefId=info:xri/sid:primo&accountid=14511>>.
- Kotrova, Michaela et al. 'Is Next-Generation Sequencing the Way to Go for Residual Disease Monitoring in Acute Lymphoblastic Leukemia?' *Molecular Diagnosis & Therapy* 21.5 (2017): 481–492. Web.
- Larson, Jon D. et al. 'Histone H3.3 K27M Accelerates Spontaneous Brainstem Glioma and Drives Restricted Changes in Bivalent Gene Expression'. *Cancer Cell* (2018): n. pag. Web.
- Lee, Tong Ihn, and Richard A. Young. 'Transcriptional Regulation and Its Misregulation in Disease'. *Cell* 152.6 (2013): 1237–1251. Web.
- Lewis, P. W. et al. 'Inhibition of PRC2 Activity by a Gain-of-Function H3 Mutation Found in Pediatric Glioblastoma'. *Science* 340.6134 (2013): 857–861. Web.
- Liu, Zhihui, and Carol J. Thiele. 'ALK and MYCN: When Two Oncogenes Are Better than One'. *Cancer Cell* 21.3 (2012): 325–326. Web.
- Lord, Christopher J, and Alan Ashworth. 'Biology-Driven Cancer Drug Development: Back to the Future'. *BMC Biology* 8.1 (2010): n. pag. Web.
- Lu, Benjamin et al. 'Wnt Drug Discovery: Weaving Through the Screens, Patents and Clinical Trials'. *Cancers* 8.9 (2016): n. pag. Web.
- Mackall, Crystal L., Melinda S. Merchant, and Terry J. Fry. 'Immune-Based Therapies for Childhood Cancer'. *Nature Reviews Clinical Oncology* 11.12 (2014): 693–703. Web.
- Majzner, Robbie G., Sabine Heitzeneder, and Crystal L. Mackall. 'Harnessing the Immunotherapy Revolution for the Treatment of Childhood Cancers'. *Cancer Cell* 31.4 (2017): 476–485. Web.
- Marabelle, Aurélien et al. 'Hypercalcemia and 13--Retinoic Acid in Post-Consolidation Therapy of Neuroblastoma'. *Pediatric Blood & Cancer* 52.2 (2009): 280–283. Web.
- Martinez-Barbera, Juan Pedro, and Cynthia L. Andoniadou. 'Concise Review: Paracrine Role of Stem Cells in Pituitary Tumors: A Focus on Adamantinomatous Craniopharyngioma'. *STEM CELLS* 34.2 (2016): 268–276. Web.
- Martinez-Barbera, Juan Pedro, and Rolf Buslei. 'Adamantinomatous Craniopharyngioma: Pathology, Molecular Genetics and Mouse Models'. *Journal of Pediatric Endocrinology and Metabolism* 28.1–2 (2015): n. pag. Web.
- Matthay, Katherine K. et al. 'Treatment of High-Risk Neuroblastoma with Intensive

- Chemotherapy, Radiotherapy, Autologous Bone Marrow Transplantation, and 13-
-Retinoic Acid'. *New England Journal of Medicine* 341.16 (1999): 1165–1173. Web.
- Milne, Thomas A. 'Mouse Models of MLL Leukemia: Recapitulating the Human Disease'. *Blood* 129.16 (2017): 2217–2223. Web.
- Morsut, Leonardo et al. 'Engineering Customized Cell Sensing and Response Behaviors Using Synthetic Notch Receptors'. *Cell* 164.4 (2016): 780–791. Web.
- Mossé, Yaël P. et al. 'Identification of ALK as a Major Familial Neuroblastoma Predisposition Gene'. *Nature* 455.7215 (2008): 930–935. Web.
- Nataliya Zhukova. 'Subgroup-Specific Prognostic Implications of TP53 Mutation in Medulloblastoma'. *Journal of Clinical Oncology* 31.23 (2013): n. pag. Web.
<<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4878050/>>.
- 'Nature Reviews Immunology'. 12.4 (2012): n. pag. Web.
<<https://www.nature.com/nri/volumes/12/issues/4>>.
- Niemeyer, Charlotte Marie, and Christian Peter Kratz. 'Paediatric Myelodysplastic Syndromes and Juvenile Myelomonocytic Leukaemia: Molecular Classification and Treatment Options'. *British Journal of Haematology* 140.6 (2008): 610–624. Web.
- Niklison-Chirou, Maria Victoria et al. 'TAp73 Is a Marker of Glutamine Addiction in Medulloblastoma'. *Genes & Development* 31.17 (2017): 1738–1753. Web.
- Northcott, Paul A. et al. 'The Clinical Implications of Medulloblastoma Subgroups'. *Nature Reviews Neurology* 8.6 (2012): 340–351. Web.
- O'Connor, David et al. 'Genotype-Specific Minimal Residual Disease Interpretation Improves Stratification in Pediatric Acute Lymphoblastic Leukemia'. *Journal of Clinical Oncology* 36.1 (2018): 34–43. Web.
- . 'Genotype-Specific Minimal Residual Disease Interpretation Improves Stratification in Pediatric Acute Lymphoblastic Leukemia'. *Journal of Clinical Oncology* 36.1 (2018): 34–43. Web.
- Pastorino, Fabio et al. 'Ligand-Targeted Liposomal Therapies of Neuroblastoma'. *Current Medicinal Chemistry* 14.29 (2007): 3070–3078. Web.
- Pathania, Manav et al. 'H3.3K27M Cooperates with Trp53 Loss and PDGFRA Gain in Mouse Embryonic Neural Progenitor Cells to Induce Invasive High-Grade Gliomas'. *Cancer Cell* 32.5 (2017): 684-700.e9. Web.
- Pfister, Stefan et al. 'Novel Genomic Amplification Targeting the microRNA Cluster at 19q13.42 in a Pediatric Embryonal Tumor with Abundant Neuropil and True Rosettes'. *Acta Neuropathologica* 117.4 (2009): 457–464. Web.
- Phoenix, Timothy N. et al. 'Medulloblastoma Genotype Dictates Blood Brain Barrier Phenotype'. *Cancer Cell* 29.4 (2016): 508–522. Web.

Qasim, Waseem et al. 'Molecular Remission of Infant B-ALL after Infusion of Universal TALEN Gene-Edited CAR T Cells'. *Science Translational Medicine* 9.374 (2017): n. pag. Web.

Qiao, Jingbo et al. 'PI3K/AKT and ERK Regulate Retinoic Acid-Induced Neuroblastoma Cellular Differentiation'. *Biochemical and Biophysical Research Communications* 424.3 (2012): 421–426. Web.

Rasaiyaah, Jane et al. 'TCR $\alpha\beta$ /CD3 Disruption Enables CD3-Specific Antileukemic T Cell Immunotherapy'. *JCI Insight* 3.13 (2018): n. pag. Web.

Reynolds, C.Patrick et al. 'Retinoid Therapy of High-Risk Neuroblastoma'. *Cancer Letters* 197.1–2 (2003): 185–192. Web.

Richmond, A., and Y. Su. 'Mouse Xenograft Models vs GEM Models for Human Cancer Therapeutics'. *Disease Models and Mechanisms* 1.2–3 (2008): 78–82. Web.

Sadelain, Michel, Isabelle Rivière, and Stanley Riddell. 'Therapeutic T Cell Engineering'. *Nature* 545.7655 (2017): 423–431. Web.

Schwab, M. 'MYCN in Neuronal Tumours'. *Cancer Letters* 204.2 (2004): 179–187. Web.

Schwalbe, Ed. C. et al. 'Histologically Defined Central Nervous System Primitive Neuro-Ectodermal Tumours (CNS-PNETs) Display Heterogeneous DNA Methylation Profiles and Show Relationships to Other Paediatric Brain Tumour Types'. *Acta Neuropathologica* 126.6 (2013): 943–946. Web.

Schwalbe, Edward C et al. 'Novel Molecular Subgroups for Clinical Classification and Outcome Prediction in Childhood Medulloblastoma: A Cohort Study'. *The Lancet Oncology* 18.7 (2017): 958–971. Web.

Schwartzentruber, Jeremy et al. 'Driver Mutations in Histone H3.3 and Chromatin Remodelling Genes in Paediatric Glioblastoma'. *Nature* 482.7384 (2012): 226–231. Web.

Sidell, Neil. 'Retinoic Acid-Induced Growth Inhibition and Morphologic Differentiation of Human Neuroblastoma Cells In Vitro'. *JNCI: Journal of the National Cancer Institute* (1982): n. pag. Web.

Slany, R K. 'The Molecular Mechanics of Mixed Lineage Leukemia'. *Oncogene* 35.40 (2016): 5215–5223. Web.

Stone, T. J., and T. S. Jacques. 'Medulloblastoma: Selecting Children for Reduced Treatment'. *Neuropathology and Applied Neurobiology* 41.2 (2015): 106–108. Web.

Strebhardt, Klaus, and Axel Ullrich. 'Paul Ehrlich's Magic Bullet Concept: 100 Years of Progress'. *Nature Reviews Cancer* 8.6 (2008): 473–480. Web.

Sturm, Dominik, Hendrik Witt, et al. 'Hotspot Mutations in H3F3A and IDH1 Define Distinct Epigenetic and Biological Subgroups of Glioblastoma'. *Cancer Cell* 22.4 (2012): 425–437. Web.

Sturm, Dominik, Brent A. Orr, et al. 'New Brain Tumor Entities Emerge from Molecular Classification of CNS-PNETs'. *Cell* 164.5 (2016): 1060–1072. Web.

Taylor, Michael D Northcott, Paul A Korshunov, Andrey Remke, Marc Cho, Yoon-jae. 'Molecular Subgroups of Medulloblastoma: The Current Consensus'. *Acta Neuropathologica* 123.3 465–72. Web.

<https://search.proquest.com/docview/928783888?rfr_id=info%3Axri%2Fsid%3Aprimo>.

Vogelstein, B. et al. 'Cancer Genome Landscapes'. *Science* 339.6127 (2013): 1546–1558. Web.

---. 'Cancer Genome Landscapes'. *Science* 339.6127 (2013): 1546–1558. Web.

Vora, Ajay, Nick Goulden, Chris Mitchell, et al. 'Augmented Post-Remission Therapy for a Minimal Residual Disease-Defined High-Risk Subgroup of Children and Young People with Clinical Standard-Risk and Intermediate-Risk Acute Lymphoblastic Leukaemia (UKALL 2003): A Randomised Controlled Trial'. *The Lancet Oncology* 15.8 (2014): 809–818. Web.

Vora, Ajay, Nick Goulden, Rachel Wade, et al. 'Treatment Reduction for Children and Young Adults with Low-Risk Acute Lymphoblastic Leukaemia Defined by Minimal Residual Disease (UKALL 2003): A Randomised Controlled Trial'. *The Lancet Oncology* 14.3 (2013): 199–209. Web.

Wegman-Ostrosky, Talia, and Sharon A. Savage. 'The Genomics of Inherited Bone Marrow Failure: From Mechanism to the Clinic'. *British Journal of Haematology* 177.4 (2017): 526–542. Web.

Weinberg, Robert A. *The Biology of Cancer*. 2nd ed. New York: Garland Science, 2014. Print.

Wright, James Homer. 'NEUROCYTOMA OR NEUROBLASTOMA, A KIND OF TUMOR NOT GENERALLY RECOGNIZED'. *The Journal of Experimental Medicine* 12.4 (1910): n. pag. Web.

Yang, Liqun Ke, Xiao-Xue Xuan, Fan Tan, Juan Hou, Jianbing. 'PHOX2B Is Associated with Neuroblastoma Cell Differentiation'. *Cancer Biotherapy & Radiopharmaceuticals* 31 44–51. Web.

<https://search.proquest.com/docview/1776665507?rfr_id=info%3Axri%2Fsid%3Aprimo>.

Yong, Carmen S M et al. 'CAR T-Cell Therapy of Solid Tumors'. *Immunology and Cell Biology* 95.4 (2017): 356–363. Web.

Zelent, Arthur, Mel Greaves, and Tariq Enver. 'Role of the TEL-AML1 Fusion Gene in the Molecular Pathogenesis of Childhood Acute Lymphoblastic Leukaemia'. *Oncogene* 23.24 (2004): 4275–4283. Web.

Zhu, Shizhen et al. 'Activated ALK Collaborates with MYCN in Neuroblastoma Pathogenesis'. *Cancer Cell* 21.3 (2012): 362–373. Web.