

BS3540: Cell and Molecular Biology of Cancer

View Online



-
- Ansley, S. J. (2003). Basal Body Dysfunction is a Likely Cause of Pleiotropic Bardet–Biedl Syndrome. *Nature*, 425(6958), 628–633. <https://doi.org/10.1038/nature02030>
- Badano, J. L. (2006). The Ciliopathies: An Emerging Class of Human Genetic Disorders. *Annual Review of Genomics and Human Genetics*, 7(1), 125–148. <https://doi.org/10.1146/annurev.genom.7.080505.115610>
- Bainier, R., & Weaver, V. (2013). Strength Under Tension. *Science*, 341(6149), 965–966. <https://doi.org/10.1126/science.1243643>
- Blundell, T. L. (2000). Crystal Structure of Fibroblast Growth Factor Receptor Ectodomain Bound to Ligand and Heparin. *Nature*, 407(6807), 1029–1034. <https://doi.org/10.1038/35039551>
- Bomken, S. (2010). Understanding the Cancer Stem Cell. *British Journal of Cancer*, 103(4). <https://doi.org/10.1038/sj.bjc.6605821>
- Brazil, D. P. (2015). BMP Signalling: Agony and Antagonism in the Family. *Trends in Cell Biology*, 25(5), 249–264. <https://doi.org/10.1016/j.tcb.2014.12.004>
- Butterfield, L. H. (2015). Cancer Vaccines. *BMJ*, 350, h988–h988. <https://doi.org/10.1136/bmj.h988>
- Cao, J. (2014). Cells Derived From iPSC Can Be Immunogenic — Yes or No? *Protein & Cell*, 5(1), 1–3. <https://doi.org/10.1007/s13238-013-0003-2>
- Chambers, I., & Tomlinson, S. R. (2009). The Transcriptional Foundation of Pluripotency. *Development*, 136(14), 2311–2322. <https://doi.org/10.1242/dev.024398>
- Chen, H.-Z. (2009). Emerging Roles of E2Fs in Cancer: an Exit From Cell Cycle Control. *Nature Reviews Cancer*, 9(11), 785–797. <https://doi.org/10.1038/nrc2696>
- Couzin-Frankel, J. (2015). The Bad Luck of Cancer. *Science*, 347(6217), 12–12. <https://doi.org/10.1126/science.347.6217.12>
- Davis, H. (2014). Aberrant Epithelial GREM1 Expression Initiates Colonic Tumorigenesis from Cells Outside the Stem Cell Niche. *Nature Medicine*, 21(1), 62–70. <https://doi.org/10.1038/nm.3750>
- De Los Angeles, A. (2015). Hallmarks of Pluripotency. *Nature*, 525(7570), 469–478.

<https://doi.org/10.1038/nature15515>

Dynlacht, B. (2007). The E2F Family and Transcriptional Control of the Mammalian Cell Cycle. The Biomedical & Life Sciences Collection.
<https://hstalks.com/t/672/the-e2f-family-and-transcriptional-control-of-the-/?biosci>

Elenius, K. (1994). Function of the Syndecans - a Family of Cell Surface Proteoglycans. *Journal of Cell Science*, 107(11), 2975–2982. <http://jcs.biologists.org/content/107/11/2975>
Ganem, N. J. (2009). A Mechanism Linking Extra Centrosomes to Chromosomal Instability. *Nature*, 460(7252), 278–282. <https://doi.org/10.1038/nature08136>

Gao, H. (2012). The BMP Inhibitor Coco Reactivates Breast Cancer Cells at Lung Metastatic Sites. *Cell*, 150(4), 764–779. <https://doi.org/10.1016/j.cell.2012.06.035>

George, J. (2015). Comprehensive Genomic Profiles of Small Cell Lung Cancer. *Nature*, 524(7563), 47–53. <https://doi.org/10.1038/nature14664>

Greco, V., & Guo, S. (2010). Compartmentalized Organization: a Common and Required Feature of Stem Cell Niches? *Development*, 137(10), 1586–1594.
<https://doi.org/10.1242/dev.041103>

Guilak, F. (2009). Control of Stem Cell Fate by Physical Interactions with the Extracellular Matrix. *Cell Stem Cell*, 5(1), 17–26. <https://doi.org/10.1016/j.stem.2009.06.016>

Guise, T. A. (2013). Breast Cancer Bone Metastases: It's All about the Neighborhood. *Cell*, 154(5), 957–959. <https://doi.org/10.1016/j.cell.2013.08.020>

Gupta, G. P., & Massagué, J. (2006a). Cancer Metastasis: Building a Framework. *Cell*, 127(4), 679–695. <https://doi.org/10.1016/j.cell.2006.11.001>

Gupta, G. P., & Massagué, J. (2006b). Cancer Metastasis: Building a Framework. *Cell*, 127(4), 679–695. <https://doi.org/10.1016/j.cell.2006.11.001>

Habedanck, R. (2005). The Polo Kinase Plk4 Functions in Centriole Duplication. *Nature Cell Biology*, 7(11), 1140–1146. <https://doi.org/10.1038/ncb1320>

Hanahan, D., & Weinberg, R. A. (2000a). The Hallmarks of Cancer. *Cell*, 100(1), 57–70.
[https://doi.org/10.1016/S0092-8674\(00\)81683-9](https://doi.org/10.1016/S0092-8674(00)81683-9)

Hanahan, D., & Weinberg, R. A. (2000b). The Hallmarks of Cancer. *Cell*, 100(1), 57–70.
[https://doi.org/10.1016/S0092-8674\(00\)81683-9](https://doi.org/10.1016/S0092-8674(00)81683-9)

Hanahan, D., & Weinberg, R. A. (2011a). Hallmarks of Cancer: The Next Generation. *Cell*, 144(5), 646–674. <https://doi.org/10.1016/j.cell.2011.02.013>

Hanahan, D., & Weinberg, R. A. (2011b). Hallmarks of Cancer: The Next Generation. *Cell*, 144(5), 646–674. <https://doi.org/10.1016/j.cell.2011.02.013>

Hanahan, D., & Weinberg, R. A. (2011c). Hallmarks of Cancer: The Next Generation. *Cell*, 144(5), 646–674. <https://doi.org/10.1016/j.cell.2011.02.013>

- Hengartner, M. (2007). Apoptosis in *C. Elegans*. The Biomedical & Life Sciences Collection. <https://hstalks.com/t/276/apoptosis-in-c-elegans/?biosci>
- Hinchcliffe, E. H. (1999). Requirement of Cdk2-Cyclin E Activity for Repeated Centrosome Reproduction in *Xenopus* Egg Extracts. *Science*, 283(5403), 851–854. http://www.jstor.org/stable/2897252?seq=1#page_scan_tab_contents
- Hunter, T. (2007). Receptor Tyrosine Kinases - Function, Families and Evolution | The Biomedical & Life Sciences Collection. <https://hstalks.com/t/447/receptor-tyrosine-kinases-function-families-and-ev/?business>
- Hynes, R. O. (2002). Integrins: Bidirectional, Allosteric Signaling Machines. *Cell*, 110(6), 673–687. [https://doi.org/10.1016/S0092-8674\(02\)00971-6](https://doi.org/10.1016/S0092-8674(02)00971-6)
- Jiang, W. (2012). The Implications of Cancer Stem Cells for Cancer Therapy. *International Journal of Molecular Sciences*, 13(12), 16636–16657. <https://doi.org/10.3390/ijms131216636>
- Kaiser, J. (2009). Naked Mole Rat Wins the War on Cancer | Science | AAAS. <http://www.sciencemag.org/news/2009/10/naked-mole-rat-wins-war-cancer>
- Kazlauskas, A. (2007). How the PDGF Receptor Induces Cell Proliferation. The Biomedical & Life Sciences Collection. <https://hstalks.com/t/450/how-the-pdgf-receptor-induces-cell-proliferation/?biosci>
- Keklikoglou, I., & De Palma, M. (2014). Cancer: Metastasis Risk After Anti-Macrophage Therapy. *Nature*, 515(7525), 46–47. <https://doi.org/10.1038/nature13931>
- Kleinman, H. K., & Weeks, B. S. (1989). Laminin: Structure, Functions and Receptors. *Current Opinion in Cell Biology*, 1(5), 964–967. [https://doi.org/10.1016/0955-0674\(89\)90066-5](https://doi.org/10.1016/0955-0674(89)90066-5)
- Knoblich, J. A. (2008). Mechanisms of Asymmetric Stem Cell Division. *Cell*, 132(4), 583–597. <https://doi.org/10.1016/j.cell.2008.02.007>
- Krzywicka-Racka, A. (2011). Repeated Cleavage Failure Does Not Establish Centrosome Amplification in Untransformed Human Cells. *The Journal of Cell Biology*, 194(2). <https://doi.org/10.1083/jcb.201101073>
- Lees, J. (2009). The pRB/E2F pathway. In The Biomedical & Life Sciences Collection. <https://hstalks.com/t/1254/the-prbe2f-pathway/?biosci>
- Lemmon, M. A., & Schlessinger, J. (2010). Cell Signaling by Receptor Tyrosine Kinases. *Cell*, 141(7), 1117–1134. <https://doi.org/10.1016/j.cell.2010.06.011>
- Lim, W. A., & Pawson, T. (2010). Phosphotyrosine Signaling: Evolving a New Cellular Communication System. *Cell*, 142(5), 661–667. <https://doi.org/10.1016/j.cell.2010.08.023>
- Lingle, W. L. (2002). Centrosome Amplification Drives Chromosomal Instability in Breast Tumor Development. *Proceedings of the National Academy of Sciences of the United States of America*, 99(4), 1978–1983. http://www.jstor.org/stable/3057904?seq=1#page_scan_tab_contents

Lodish, H. F. (2016a). *Molecular Cell Biology* (Eighth edition). W.H. Freeman Macmillan Learning.

Lodish, H. F. (2016b). *Molecular Cell Biology* (Eighth edition). W.H. Freeman Macmillan Learning.

Lodish, H. F. (2016c). *Molecular Cell Biology* (Eighth edition). W.H. Freeman Macmillan Learning.

Lodish, H. F. (2016d). *Molecular Cell Biology* (Eighth edition). W.H. Freeman Macmillan Learning.

Lončarek, J. (2010). Centriole Reduplication During Prolonged Interphase Requires Procentriole Maturation Governed by Plk1. *Current Biology*, 20(14), 1277–1282. <https://doi.org/10.1016/j.cub.2010.05.050>

Maude, S. L. (2014). Chimeric Antigen Receptor T-cell Therapy for ALL. *Hematology*, 2014(1), 559–564. <https://doi.org/10.1182/asheducation-2014.1.559>

Meacham, C. E., & Morrison, S. J. (2013). Tumour Heterogeneity and Cancer Cell Plasticity. *Nature*, 501(7467), 328–337. <https://doi.org/10.1038/nature12624>

Meraldi, P. (2002). Aurora-A Overexpression Reveals Tetraploidization as a Major Route to Centrosome Amplification in p53^{-/-} Cells. *The EMBO Journal*, 21(4), 483–492. <https://doi.org/10.1093/emboj/21.4.483>

Meraldi, P. (2004). Aurora Kinases Link Chromosome Segregation and Cell Division to Cancer Susceptibility. *Current Opinion in Genetics & Development*, 14(1), 29–36. <https://doi.org/10.1016/j.gde.2003.11.006>

Morrison, S. J., & Spradling, A. C. (2008). Stem Cells and Niches: Mechanisms That Promote Stem Cell Maintenance throughout Life. *Cell*, 132(4), 598–611. <https://doi.org/10.1016/j.cell.2008.01.038>

Mulloy, B., & Rider, C. C. (2006). Cytokines and Proteoglycans: an Introductory Overview. *Biochemical Society Transactions*, 34(3), 409–413. <https://doi.org/10.1042/BST0340409>

Nguyen, D. X. (2009). Metastasis: from Dissemination to Organ-Specific Colonization. *Nature Reviews Cancer*, 9(4), 274–284. <https://doi.org/10.1038/nrc2622>

Nigg, E. A. (1999). Centrosome Duplication in Mammalian Somatic Cells Requires E2F and Cdk2-cyclin A. *Nature Cell Biology*, 1(2), 88–93. <https://doi.org/10.1038/10054>

Nigg, E. A. (2002). Centrosome Aberrations: Cause or Consequence of Cancer Progression? *Nature Reviews Cancer*, 2(11), 815–825. <https://doi.org/10.1038/nrc924>

Nigg, E. A., & Raff, J. W. (2009a). Centrioles, Centrosomes, and Cilia in Health and Disease. *Cell*, 139(4), 663–678. <https://doi.org/10.1016/j.cell.2009.10.036>

Nigg, E. A., & Raff, J. W. (2009b). Centrioles, Centrosomes, and Cilia in Health and Disease. *Cell*, 139(4), 663–678. <https://doi.org/10.1016/j.cell.2009.10.036>

- Nigg, E. A., & Stearns, T. (2011). The Centrosome Cycle: Centriole Biogenesis, Duplication and Inherent Asymmetries. *Nature Cell Biology*, 13(10), 1154–1160. <https://doi.org/10.1038/ncb2345>
- NIH VideoCasting Past Events. (n.d.). <https://videocast.nih.gov/pastevents.asp?c=29>
- Nurse, P. (2012). The Richard Dimbleby Lecture 2012: 'The New Enlightenment'. https://royalsociety.org/~media/Royal_Society_Content/people/fellows/2012-02-29-Dimbleby.pdf
- Nybakken, K., & Perrimon, N. (2002). Heparan Sulfate Proteoglycan Modulation of Developmental Signaling in *Drosophila*. *Biochimica et Biophysica Acta (BBA) - General Subjects*, 1573(3), 280–291. [https://doi.org/10.1016/S0304-4165\(02\)00395-1](https://doi.org/10.1016/S0304-4165(02)00395-1)
- Olsen, B. R. (1999). Life without Perlecan Has Its Problems. *The Journal of Cell Biology*, 147(5). <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2169336/>
- Oren, M. (2007). p53 and Apoptosis. The Biomedical & Life Sciences Collection. <https://hstalks.com/t/291/p53-and-apoptosis/?biosci>
- Pazour, G. J. (2000). Chlamydomonas IFT88 and Its Mouse Homologue, Polycystic Kidney Disease Gene Tg737, Are Required for Assembly of Cilia and Flagella. *The Journal of Cell Biology*, 151(3). <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2185580/>
- Pazour, G. J. (2002). Polycystin-2 Localizes to Kidney Cilia and the Ciliary Level is Elevated in Orpk Mice With Polycystic Kidney Disease. *Current Biology*, 12(11), R378–R380. [https://doi.org/10.1016/S0960-9822\(02\)00877-1](https://doi.org/10.1016/S0960-9822(02)00877-1)
- Pazour, G. J. (2004). Intraflagellar Transport and Cilia-Dependent Renal Disease: The Ciliary Hypothesis of Polycystic Kidney Disease. *Journal of the American Society of Nephrology*, 15(10), 2528–2536. <https://doi.org/10.1097/01.ASN.0000141055.57643.E0>
- Pazour, G. J., & Rosenbaum, J. L. (2002). Intraflagellar Transport and Cilia-Dependent Diseases. *Trends in Cell Biology*, 12(12), 551–555. [https://doi.org/10.1016/S0962-8924\(02\)02410-8](https://doi.org/10.1016/S0962-8924(02)02410-8)
- Pico de Coaña, Y. (2015). Checkpoint Blockade for Cancer Therapy: Revitalizing a Suppressed Immune System. *Trends in Molecular Medicine*, 21(8), 482–491. <https://doi.org/10.1016/j.molmed.2015.05.005>
- Pihan, G. A., Wallace, J., Zhou, Y., & Doxsey, S. J. (2003). Centrosome Abnormalities and Chromosome Instability Occur Together in Pre-invasive Carcinomas. *Cancer Research*, 63. <http://cancerres.aacrjournals.org/content/63/6/1398>
- Pleasant, E. D. (2010). A Small-Cell Lung Cancer Genome with Complex Signatures of Tobacco Exposure. *Nature*, 463(7278), 184–190. <https://doi.org/10.1038/nature08629>
- Postow, M. A. (2015). Nivolumab and Ipilimumab Versus Ipilimumab in Untreated Melanoma. *New England Journal of Medicine*, 372(21), 2006–2017. <https://doi.org/10.1056/NEJMoa1414428>

- Rezza, A. (n.d.). Adult Stem Cell Niches. In *Stem Cells in Development and Disease*, 107 (pp. 333–372). <https://doi.org/10.1016/B978-0-12-416022-4.00012-3>
- Rider, C. C. (2006). Heparin/heparan Sulphate Binding in the TGF- β cytokine Superfamily. *Biochemical Society Transactions*, 34(3), 458–460. <https://doi.org/10.1042/BST0340458>
- Rompolas, P. (2013). Spatial Organization Within a Niche as a Determinant of Stem-Cell Fate. *Nature*, 502(7472), 513–518. <https://doi.org/10.1038/nature12602>
- Sanderson, R. D. (2005). Enzymatic Remodeling of Heparan Sulfate Proteoglycans Within the Tumor Microenvironment: Growth Regulation and the Prospect of New Cancer Therapies. *Journal of Cellular Biochemistry*, 96(5), 897–905. <https://doi.org/10.1002/jcb.20602>
- Swift, J. (2013). Nuclear Lamin-A Scales with Tissue Stiffness and Enhances Matrix-Directed Differentiation. *Science*, 341(6149), 1240104–1240104. <https://doi.org/10.1126/science.1240104>
- Tomasetti, C., & Vogelstein, B. (2015a). Variation in Cancer Risk Among Tissues Can Be Explained by the Number of Stem Cell Divisions. *Science*, 347(6217), 78–81. <https://doi.org/10.1126/science.1260825>
- Tomasetti, C., & Vogelstein, B. (2015b). Variation in Cancer Risk Among Tissues Can Be Explained by the Number of Stem Cell Divisions. *Science*, 347(6217), 78–81. <https://doi.org/10.1126/science.1260825>
- van den Heuvel, S., & Dyson, N. J. (2008). Conserved Functions of the pRB and E2F Families. *Nature Reviews Molecular Cell Biology*, 9(9), 713–724. <https://doi.org/10.1038/nrm2469>
- Wang, J. (2006). A Protein Interaction Network for Pluripotency of Embryonic Stem Cells. *Nature*, 444(7117), 364–368. <https://doi.org/10.1038/nature05284>
- Weinberg, R. (2009). Invasion, Metastasis and Stem Cells. In *The Biomedical & Life Sciences Collection*. <https://hstalks.com/t/1376/invasion-metastasis-and-stem-cells/?biosci>
- Weinberg, R. A. (2007). 'The Biology and Genetics of Cells and Organisms', 'The Nature of Cancer' and 'Tumor Viruses'. In *The Biology of Cancer* (pp. 1–103). Garland Science.
- Weinberg, R. A. (2014a). *The Biology of Cancer* (Second edition). Garland Science.
- Weinberg, R. A. (2014b). *The Biology of Cancer* (Second edition). Garland Science.
- Weinberg, R. A. (2014c). *The Biology of Cancer* (Second edition). Garland Science.
- Weinberg, R. A. (2014d). *The Biology of Cancer* (Second edition). Garland Science.
- Weinberg, R. A. (2014e). *The Biology of Cancer* (Second edition). Garland Science.
- Weinberg, R. A. (2014f). *The Biology of Cancer* (Second edition). Garland Science.

Weinberg, R. A. (2014g). *The Biology of Cancer* (Second edition). Garland Science.

Wodarz, D., & Zauber, A. G. (2015). Cancer: Risk Factors and Random Chances. *Nature*, 517(7536), 563–564. <https://doi.org/10.1038/517563a>

Wu, S. (2015). Substantial Contribution of Extrinsic Risk Factors to Cancer Development. *Nature*, 529(7584), 43–47. <https://doi.org/10.1038/nature16166>

Yamada, K. M. (1989). Fibronectins: Structure, Functions and Receptors. *Current Opinion in Cell Biology*, 1(5), 956–963.

Yu, Z. (2012). Cancer Stem Cells. *The International Journal of Biochemistry & Cell Biology*, 44(12), 2144–2151. <https://doi.org/10.1016/j.biocel.2012.08.022>

Zhang, X. H.-F. (2013). Selection of Bone Metastasis Seeds by Mesenchymal Signals in the Primary Tumor Stroma. *Cell*, 154(5), 1060–1073. <https://doi.org/10.1016/j.cell.2013.07.036>

Zhao, T. (2015). Humanized Mice Reveal Differential Immunogenicity of Cells Derived from Autologous Induced Pluripotent Stem Cells. *Cell Stem Cell*, 17(3), 353–359. <https://doi.org/10.1016/j.stem.2015.07.021>

Zhou, Q. (2007). A Gene Regulatory Network in Mouse Embryonic Stem Cells. *Proceedings of the National Academy of Sciences of the United States of America*, 104(42), 16438–16443. <https://www.jstor.org/stable/25450071>