

BS3540: Cell and Molecular Biology of Cancer

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1.
Lodish, H. F. Molecular Cell Biology. (W.H. Freeman Macmillan Learning, 2016).

 2.
Weinberg, R. A. The Biology of Cancer. (Garland Science, 2014).

 3.
Weinberg, R. A. 'The Biology and Genetics of Cells and Organisms', 'The Nature of Cancer' and 'Tumor Viruses'. in The Biology of Cancer 1–103 (Garland Science, 2007).

 4.
Hanahan, D. & Weinberg, R. A. The Hallmarks of Cancer. Cell **100**, 57–70 (2000).

 5.
Hanahan, D. & Weinberg, R. A. Hallmarks of Cancer: The Next Generation. Cell **144**, 646–674 (2011).

 6.
Weinberg, R. A. The Biology of Cancer. (Garland Science, 2014).

7.

Hanahan, D. & Weinberg, R. A. Hallmarks of Cancer: The Next Generation. *Cell* **144**, 646–674 (2011).

8.

Pico de Coaña, Y. Checkpoint Blockade for Cancer Therapy: Revitalizing a Suppressed Immune System. *Trends in Molecular Medicine* **21**, 482–491 (2015).

9.

Postow, M. A. Nivolumab and Ipilimumab Versus Ipilimumab in Untreated Melanoma. *New England Journal of Medicine* **372**, 2006–2017 (2015).

10.

Maude, S. L. Chimeric Antigen Receptor T-cell Therapy for ALL. *Hematology* **2014**, 559–564 (2014).

11.

Butterfield, L. H. Cancer Vaccines. *BMJ* **350**, h988–h988 (2015).

12.

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

13.

Hynes, R. O. Integrins: Bidirectional, Allosteric Signaling Machines. *Cell* **110**, 673–687 (2002).

14.

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

15.

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

16.

Mulloy, B. & Rider, C. C. Cytokines and Proteoglycans: an Introductory Overview. *Biochemical Society Transactions* **34**, 409–413 (2006).

17.

Elenius, K. Function of the Syndecans - a Family of Cell Surface Proteoglycans. *Journal of Cell Science* **107**, 2975–2982 (1994).

18.

Olsen, B. R. Life without Perlecan Has Its Problems. *The Journal of Cell Biology* **147**, (1999).

19.

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

20.

Kleinman, H. K. & Weeks, B. S. Laminin: Structure, Functions and Receptors. *Current Opinion in Cell Biology* **1**, 964–967 (1989).

21.

Sanderson, R. D. Enzymatic Remodeling of Heparan Sulfate Proteoglycans Within the Tumor Microenvironment: Growth Regulation and the Prospect of New Cancer Therapies. *Journal of Cellular Biochemistry* **96**, 897–905 (2005).

22.

Blundell, T. L. Crystal Structure of Fibroblast Growth Factor Receptor Ectodomain Bound to Ligand and Heparin. *Nature* **407**, 1029–1034 (2000).

23.

Nybakken, K. & Perrimon, N. Heparan Sulfate Proteoglycan Modulation of Developmental Signaling in *Drosophila*. *Biochimica et Biophysica Acta (BBA) - General Subjects* **1573**, 280–291 (2002).

24.

Keklikoglou, I. & De Palma, M. Cancer: Metastasis Risk After Anti-Macrophage Therapy. *Nature* **515**, 46–47 (2014).

25.

Rider, C. C. Heparin/heparan Sulphate Binding in the TGF- β cytokine Superfamily. *Biochemical Society Transactions* **34**, 458–460 (2006).

26.

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

27.

NIH VideoCasting Past Events. <https://videocast.nih.gov/pastevents.asp?c=29>.

28.

Rezza, A. Adult Stem Cell Niches. in *Stem Cells in Development and Disease*, 107 333–372 doi:10.1016/B978-0-12-416022-4.00012-3.

29.

Morrison, S. J. & Spradling, A. C. Stem Cells and Niches: Mechanisms That Promote Stem

Cell Maintenance throughout Life. *Cell* **132**, 598–611 (2008).

30.

Knoblich, J. A. Mechanisms of Asymmetric Stem Cell Division. *Cell* **132**, 583–597 (2008).

31.

Jiang, W. The Implications of Cancer Stem Cells for Cancer Therapy. *International Journal of Molecular Sciences* **13**, 16636–16657 (2012).

32.

Yu, Z. Cancer Stem Cells. *The International Journal of Biochemistry & Cell Biology* **44**, 2144–2151 (2012).

33.

Bomken, S. Understanding the Cancer Stem Cell. *British Journal of Cancer* **103**, (2010).

34.

Meacham, C. E. & Morrison, S. J. Tumour Heterogeneity and Cancer Cell Plasticity. *Nature* **501**, 328–337 (2013).

35.

De Los Angeles, A. Hallmarks of Pluripotency. *Nature* **525**, 469–478 (2015).

36.

Chambers, I. & Tomlinson, S. R. The Transcriptional Foundation of Pluripotency. *Development* **136**, 2311–2322 (2009).

37.

Zhou, Q. A Gene Regulatory Network in Mouse Embryonic Stem Cells. *Proceedings of the National Academy of Sciences of the United States of America* **104**, 16438–16443 (2007).

38.

Wang, J. A Protein Interaction Network for Pluripotency of Embryonic Stem Cells. *Nature* **444**, 364–368 (2006).

39.

Nigg, E. A. & Raff, J. W. Centrioles, Centrosomes, and Cilia in Health and Disease. *Cell* **139**, 663–678 (2009).

40.

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

41.

Lemmon, M. A. & Schlessinger, J. Cell Signaling by Receptor Tyrosine Kinases. *Cell* **141**, 1117–1134 (2010).

42.

Lim, W. A. & Pawson, T. Phosphotyrosine Signaling: Evolving a New Cellular Communication System. *Cell* **142**, 661–667 (2010).

43.

Hunter, T. *Receptor Tyrosine Kinases - Function, Families and Evolution* | The Biomedical & Life Sciences Collection. (2007).

44.

Kazlauskas, A. How the PDGF Receptor Induces Cell Proliferation. The Biomedical & Life Sciences Collection (2007).

45.

Weinberg, R. A. The Biology of Cancer. (Garland Science, 2014).

46.

Lees, J. The pRB/E2F pathway. The Biomedical & Life Sciences Collection (2009).

47.

Kaiser, J. Naked Mole Rat Wins the War on Cancer | Science | AAAS.
<http://www.sciencemag.org/news/2009/10/naked-mole-rat-wins-war-cancer> (2009).

48.

Hengartner, M. Apoptosis in C. Elegans. The Biomedical & Life Sciences Collection (2007).

49.

Dynlacht, B. The E2F Family and Transcriptional Control of the Mammalian Cell Cycle. The Biomedical & Life Sciences Collection (2007).

50.

Oren, M. p53 and Apoptosis. The Biomedical & Life Sciences Collection (2007).

51.

Chen, H.-Z. Emerging Roles of E2Fs in Cancer: an Exit From Cell Cycle Control. Nature Reviews Cancer **9**, 785–797 (2009).

52.

van den Heuvel, S. & Dyson, N. J. Conserved Functions of the pRB and E2F Families. *Nature Reviews Molecular Cell Biology* **9**, 713–724 (2008).

53.

Couzin-Frankel, J. The Bad Luck of Cancer. *Science* **347**, 12–12 (2015).

54.

Tomasetti, C. & Vogelstein, B. Variation in Cancer Risk Among Tissues Can Be Explained by the Number of Stem Cell Divisions. *Science* **347**, 78–81 (2015).

55.

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

56.

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

57.

Weinberg, R. *Invasion, Metastasis and Stem Cells*. The Biomedical & Life Sciences Collection (2009).

58.

Hanahan, D. & Weinberg, R. A. Hallmarks of Cancer: The Next Generation. *Cell* **144**, 646–674 (2011).

59.

Hanahan, D. & Weinberg, R. A. The Hallmarks of Cancer. *Cell* **100**, 57–70 (2000).

60.

Gupta, G. P. & Massagué, J. Cancer Metastasis: Building a Framework. *Cell* **127**, 679–695 (2006).

61.

Nguyen, D. X. Metastasis: from Dissemination to Organ-Specific Colonization. *Nature Reviews Cancer* **9**, 274–284 (2009).

62.

Pleasant, E. D. A Small-Cell Lung Cancer Genome with Complex Signatures of Tobacco Exposure. *Nature* **463**, 184–190 (2010).

63.

Gupta, G. P. & Massagué, J. Cancer Metastasis: Building a Framework. *Cell* **127**, 679–695 (2006).

64.

Hinchcliffe, E. H. Requirement of Cdk2-Cyclin E Activity for Repeated Centrosome Reproduction in *Xenopus* Egg Extracts. *Science* **283**, 851–854 (1999).

65.

Nigg, E. A. Centrosome Duplication in Mammalian Somatic Cells Requires E2F and Cdk2-cyclin A. *Nature Cell Biology* **1**, 88–93 (1999).

66.

Pazour, G. J. *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**, (2000).

67.

Lingle, W. L. Centrosome Amplification Drives Chromosomal Instability in Breast Tumor Development. *Proceedings of the National Academy of Sciences of the United States of America* **99**, 1978–1983 (2002).

68.

Meraldi, P. Aurora-A Overexpression Reveals Tetraploidization as a Major Route to Centrosome Amplification in p53^{-/-} Cells. *The EMBO Journal* **21**, 483–492 (2002).

69.

Nigg, E. A. Centrosome Aberrations: Cause or Consequence of Cancer Progression? *Nature Reviews Cancer* **2**, 815–825 (2002).

70.

Pazour, G. J. & Rosenbaum, J. L. Intraflagellar Transport and Cilia-Dependent Diseases. *Trends in Cell Biology* **12**, 551–555 (2002).

71.

Pazour, G. J. Polycystin-2 Localizes to Kidney Cilia and the Ciliary Level is Elevated in Orpk Mice With Polycystic Kidney Disease. *Current Biology* **12**, R378–R380 (2002).

72.

Ansley, S. J. Basal Body Dysfunction is a Likely Cause of Pleiotropic Bardet–Biedl Syndrome. *Nature* **425**, 628–633 (2003).

73.

Pihan, G. A., Wallace, J., Zhou, Y. & Doxsey, S. J. Centrosome Abnormalities and Chromosome Instability Occur Together in Pre-invasive Carcinomas. *Cancer Research* **63**, (2003).

74.

Meraldi, P. Aurora Kinases Link Chromosome Segregation and Cell Division to Cancer Susceptibility. *Current Opinion in Genetics & Development* **14**, 29–36 (2004).

75.

Pazour, G. J. Intraflagellar Transport and Cilia-Dependent Renal Disease: The Ciliary Hypothesis of Polycystic Kidney Disease. *Journal of the American Society of Nephrology* **15**, 2528–2536 (2004).

76.

Habedanck, R. The Polo Kinase Plk4 Functions in Centriole Duplication. *Nature Cell Biology* **7**, 1140–1146 (2005).

77.

Badano, J. L. The Ciliopathies: An Emerging Class of Human Genetic Disorders. *Annual Review of Genomics and Human Genetics* **7**, 125–148 (2006).

78.

Ganem, N. J. A Mechanism Linking Extra Centrosomes to Chromosomal Instability. *Nature* **460**, 278–282 (2009).

79.

Nigg, E. A. & Raff, J. W. Centrioles, Centrosomes, and Cilia in Health and Disease. *Cell* **139**, 663–678 (2009).

80.

Lončarek, J. Centriole Reduplication During Prolonged Interphase Requires Procentriole Maturation Governed by Plk1. *Current Biology* **20**, 1277–1282 (2010).

81.

Krzywicka-Racka, A. Repeated Cleavage Failure Does Not Establish Centrosome

Amplification in Untransformed Human Cells. *The Journal of Cell Biology* **194**, (2011).

82.

Nigg, E. A. & Stearns, T. The Centrosome Cycle: Centriole Biogenesis, Duplication and Inherent Asymmetries. *Nature Cell Biology* **13**, 1154–1160 (2011).

83.

Tomasetti, C. & Vogelstein, B. Variation in Cancer Risk Among Tissues Can Be Explained by the Number of Stem Cell Divisions. *Science* **347**, 78–81 (2015).

84.

Nurse, P. The Richard Dimbleby Lecture 2012: 'The New Enlightenment'. (2012).

85.

Wodarz, D. & Zuber, A. G. Cancer: Risk Factors and Random Chances. *Nature* **517**, 563–564 (2015).

86.

Wu, S. Substantial Contribution of Extrinsic Risk Factors to Cancer Development. *Nature* **529**, 43–47 (2015).

87.

George, J. Comprehensive Genomic Profiles of Small Cell Lung Cancer. *Nature* **524**, 47–53 (2015).

88.

Gao, H. The BMP Inhibitor Coco Reactivates Breast Cancer Cells at Lung Metastatic Sites. *Cell* **150**, 764–779 (2012).

89.

Davis, H. Aberrant Epithelial GREM1 Expression Initiates Colonic Tumorigenesis from Cells Outside the Stem Cell Niche. *Nature Medicine* **21**, 62–70 (2014).

90.

Brazil, D. P. BMP Signalling: Agony and Antagonism in the Family. *Trends in Cell Biology* **25**, 249–264 (2015).

91.

Zhang, X. H.-F. Selection of Bone Metastasis Seeds by Mesenchymal Signals in the Primary Tumor Stroma. *Cell* **154**, 1060–1073 (2013).

92.

Guise, T. A. Breast Cancer Bone Metastases: It's All about the Neighborhood. *Cell* **154**, 957–959 (2013).

93.

Zhao, T. Humanized Mice Reveal Differential Immunogenicity of Cells Derived from Autologous Induced Pluripotent Stem Cells. *Cell Stem Cell* **17**, 353–359 (2015).

94.

Cao, J. Cells Derived From iPSC Can Be Immunogenic — Yes or No? *Protein & Cell* **5**, 1–3 (2014).

95.

Swift, J. Nuclear Lamin-A Scales with Tissue Stiffness and Enhances Matrix-Directed Differentiation. *Science* **341**, 1240104–1240104 (2013).

96.

Bainier, R. & Weaver, V. Strength Under Tension. *Science* **341**, 965–966 (2013).

97.

Guilak, F. Control of Stem Cell Fate by Physical Interactions with the Extracellular Matrix. *Cell Stem Cell* **5**, 17–26 (2009).

98.

Rompolas, P. Spatial Organization Within a Niche as a Determinant of Stem-Cell Fate. *Nature* **502**, 513–518 (2013).

99.

Greco, V. & Guo, S. Compartmentalized Organization: a Common and Required Feature of Stem Cell Niches? *Development* **137**, 1586–1594 (2010).