

# CELL3050: Advanced Molecular Cell Biology

And CELL3050A

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1

Alberts, Bruce, Molecular biology of the cell, Garland Science, Abingdon, Reference ed., 5th ed., 2008.

2

Pollard, Thomas D. and Earnshaw, William C., Cell biology, Saunders/Elsevier, Philadelphia, 2nd ed., 2008.

3

Lodish, Harvey F., Molecular cell biology, Palgrave Macmillan, Basingstoke, 6th ed., 2007.

4

Alberts, Bruce, Essential cell biology, Garland Science, London, 3rd ed., 2010.

5

iBioSeminars: Free biology videos online.

6

B. N. G. Giepmans, Science, 2006, **312**, 217-224.

7

A. J. North, *The Journal of Cell Biology*, 2006, **172**, 9–18.

8

N. C. Shaner, P. A. Steinbach and R. Y. Tsien, *Nature Methods*, 2005, **2**, 905–909.

9

Molecular Probes®, Labeling & Detection Technologies | Life Technologies.

10

Nikon MicroscopyU.

11

L. Pelkmans, *Science*, 2012, **336**, 425–426.

12

D. R. Larson, D. Zenklusen, B. Wu, J. A. Chao and R. H. Singer, *Science*, 2011, **332**, 475–478.

13

A. Raj and A. van Oudenaarden, *Cell*, 2008, **135**, 216–226.

14

A. Brock, H. Chang and S. Huang, *Nature Reviews Genetics*, 2009, **10**, 336–342.

15

T. Lionnet and R. H. Singer, *EMBO reports*, 2012, **13**, 313–321.

16

S. L. Spencer, S. Gaudet, J. G. Albeck, J. M. Burke and P. K. Sorger, *Nature*, 2009, **459**, 428–432.

17

Morgan, David Owen, *The cell cycle: principles of control*, New Science Press in association with Oxford University Press and Sinauer Associates, London, 2007, vol. Primers in biology.

18

Watson, James D., *Molecular biology of the gene*, Pearson/Benjamin Cummings, Cold Spring Harbor, N.Y., 6th ed., 2008.

19

Alberts, Bruce, *Molecular biology of the cell*, Garland Science, Abingdon, Reference ed., 5th ed., 2008.

20

Murray, Andrew Wood and Hunt, Tim, *The cell cycle: an introduction*, Oxford University Press, New York, 1993.

21

T. Evans, E. T. Rosenthal, J. Youngblom, D. Distel and T. Hunt, *Cell*, 1983, **33**, 389–396.

22

L. H. Hartwell, *Genetics*, 1991, **129**, 975–980.

23

J. Bartek and J. Lukas, Current Opinion in Cell Biology, 2007, **19**, 238–245.

24

K. Nasmyth and A. Schleiffer, Philosophical Transactions of the Royal Society B: Biological Sciences, 2004, **359**, 99–108.

25

Ted A. Weinert and Leland H. Hartwell, Science, 1988, **241**, 317–322.

26

B. J. Howell, D. B. Hoffman, G. Fang, A. W. Murray and E. D. Salmon, The Journal of Cell Biology, 2000, **150**, 1233–1250.

27

A. Musacchio and E. D. Salmon, Nature Reviews Molecular Cell Biology, 2007, **8**, 379–393.

28

Alberts, Bruce, Molecular biology of the cell, Garland Science, Abingdon, Reference ed., 5th ed., 2008.

29

Nature Publishing Group, Encyclopedia of life sciences, Macmillan, Basingstoke, 2001.

30

Milestones timeline : Nature Milestones in Cytoskeleton.

31

Julie Theriot.

32

R. Windoffer, M. Beil, T. M. Magin and R. E. Leube, *The Journal of Cell Biology*, 2011, **194**, 669–678.

33

D. N. Simon and K. L. Wilson, *Nature Reviews Molecular Cell Biology*, 2011, **12**, 695–708.

34

A. J. Ridley, *Cell*, 2011, **145**, 1012–1022.

35

K. G. Campellone and M. D. Welch, *Nature Reviews Microbiology*, 2010, **11**, 237–251.

36

T. D. Pollard and G. G. Borisy, *Cell*, 2003, **112**, 453–465.

37

E. S. Chhabra and H. N. Higgs, *Nature Cell Biology*, 2007, **9**, 1110–1121.

38

R. H. Insall and L. M. Machesky, *Developmental Cell*, 2009, **17**, 310–322.

39

M. VANTROYS, L. HUYCK, S. LEYMAN, S. DHAESE, J. VANDEKERKHOVE and C. AMPE, *European Journal of Cell Biology*, 2008, **87**, 649–667.

40

H. Herrmann, S. V. Strelkov, P. Burkhard and U. Aebi, *Journal of Clinical Investigation*, 2009, **119**, 1772–1783.

41

R. D. Goldman, B. Grin, M. G. Mendez and E. R. Kuczmarski, *Current Opinion in Cell Biology*, 2008, **20**, 28–34.

42

H. Herrmann, H. Bär, L. Kreplak, S. V. Strelkov and U. Aebi, *Nature Reviews Molecular Cell Biology*, 2007, **8**, 562–573.

43

L. M. Godsel, R. P. Hobbs and K. J. Green, *Trends in Cell Biology*, 2008, **18**, 28–37.

44

V. Delorme, M. Machacek, C. DerMardirossian, K. L. Anderson, T. Wittmann, D. Hanein, C. Waterman-Storer, G. Danuser and G. M. Bokoch, *Developmental Cell*, 2007, **13**, 646–662.

45

M. H. Symons, *The Journal of Cell Biology*, 1991, **114**, 503–513.

46

T. Miyoshi, T. Tsuji, C. Higashida, M. Herzog, A. Fujita, S. Narumiya, G. Scita and N. Watanabe, *The Journal of Cell Biology*, 2006, **175**, 947–955.

47

C.-H. Lee and P. A. Coulombe, *The Journal of Cell Biology*, 2009, **186**, 409–421.

48

G. Colakoglu and A. Brown, *The Journal of Cell Biology*, 2009, **185**, 769–777.

49

O. Akin and R. D. Mullins, *Cell*, 2008, **133**, 841–851.

50

C.-Y. Chen, Y.-H. Chi, R. A. Mutualif, M. F. Starost, T. G. Myers, S. A. Anderson, C. L. Stewart and K.-T. Jeang, *Cell*, 2012, **149**, 565–577.

51

L. Chang, K. Barlan, Y.-H. Chou, B. Grin, M. Lakonishok, A. S. Serpinskaya, D. K. Shumaker, H. Herrmann, V. I. Gelfand and R. D. Goldman, *Journal of Cell Science*, 2009, **122**, 2914–2923.

52

B. T. Helfand, M. G. Mendez, S. N. P. Murthy, D. K. Shumaker, B. Grin, S. Mohammad, U. Aebi, T. Wedig, Y. I. Wu, K. M. Hahn, M. Inagaki, H. Herrmann and R. D. Goldman, *Molecular Biology of the Cell*, 2011, **22**, 1274–1289.

53

S. Ura, A. Y. Pollitt, D. M. Veltman, N. A. Morrice, L. M. Machesky and R. H. Insall, *Current Biology*, 2012, **22**, 553–561.

54

O. Siton, Y. Ideses, S. Albeck, T. Unger, A. D. Bershadsky, N. S. Gov and A. Bernheim-Groswasser, *Current Biology*, 2011, **21**, 2092–2097.

55

P. Suraneni, B. Rubinstein, J. R. Unruh, M. Durnin, D. Hanein and R. Li, *The Journal of Cell Biology*, 2012, **197**, 239–251.

56

F. Bordeleau, M.-E. Myrand Lapierre, Y. Sheng and N. Marceau, *PLoS ONE*, , DOI:10.1371/journal.pone.0038780.

57

N. DANIAL, *Cell*, 2004, **116**, 205–219.

58

C. Pop and G. S. Salvesen, *Journal of Biological Chemistry*, 2009, **284**, 21777–21781.

59

J. E. Chipuk, T. Moldoveanu, F. Llambi, M. J. Parsons and D. R. Green, *Molecular Cell*, 2010, **37**, 299–310.

60

Y. Fuchs and H. Steller, *Cell*, 2011, **147**, 742–758.

61

X. Liu, C. N. Kim, J. Yang, R. Jemmerson and X. Wang, *Cell*, 1996, **86**, 147–157.

62

S. DATTA, *Cell*, 1997, **91**, 231–241.

63

A. Brunet, A. Bonni, M. J. Zigmond, M. Z. Lin, P. Juo, L. S. Hu, M. J. Anderson, K. C. Arden, J. Blenis and M. E. Greenberg, *Cell*, 1999, **96**, 857–868.

64

J. Whitfield, S. J. Neame, L. Paquet, O. Bernard and J. Ham, *Neuron*, 2001, **29**, 629–643.

65

T. Oltersdorf, S. W. Elmore, A. R. Shoemaker, R. C. Armstrong, D. J. Augeri, B. A. Belli, M. Bruncko, T. L. Deckwerth, J. Dinges, P. J. Hajduk, M. K. Joseph, S. Kitada, S. J. Korsmeyer, A. R. Kunzer, A. Letai, C. Li, M. J. Mitten, D. G. Nettesheim, S. Ng, P. M. Nimmer, J. M. O'Connor, A. Oleksijew, A. M. Petros, J. C. Reed, W. Shen, S. K. Tahir, C. B. Thompson, K. J. Tomaselli, B. Wang, M. D. Wendt, H. Zhang, S. W. Fesik and S. H. Rosenberg, *Nature*, 2005, **435**, 677–681.

66

K. M. Wright, A. E. Vaughn and M. Deshmukh, *Cell Death and Differentiation*, 2006, **14**, 625–633.

67

A. Hübner, T. Barrett, R. A. Flavell and R. J. Davis, *Molecular Cell*, 2008, **30**, 415–425.

68

E. Gavathiotis, M. Suzuki, M. L. Davis, K. Pitter, G. H. Bird, S. G. Katz, H.-C. Tu, H. Kim, E. H.-Y. Cheng, N. Tjandra and L. D. Walensky, *Nature*, 2008, **455**, 1076–1081.

69

C. H. Johnson, *Cell Cycle*, 2010, **9**, 3864–3873.

70

G. Vatine, D. Vallone, Y. Gothilf and N. S. Foulkes, *FEBS Letters*, 2011, **585**, 1485–1494.

71

T. K. Tamai, L. C. Young, C. A. Cox and D. Whitmore, *Journal of Biological Rhythms*, 2012, **27**, 226–236.

72

M. L. Idda, E. Kage, J. F. Lopez-Olmeda, P. Mracek, N. S. Foulkes and D. Vallone, *PLoS ONE*, DOI:10.1371/journal.pone.0034203.

73

G. Dong, Q. Yang, Q. Wang, Y.-I. Kim, T. L. Wood, K. W. Osteryoung, A. van Oudenaarden and S. S. Golden, *Cell*, 2010, **140**, 529–539.

74

T. Dickmeis, K. Lahiri, G. Nica, D. Vallone, C. Santoriello, C. J. Neumann, M. Hammerschmidt and N. S. Foulkes, *PLoS Biology*, , DOI:10.1371/journal.pbio.0050078.

75

M. P. S. Dekens, C. Santoriello, D. Vallone, G. Grassi, D. Whitmore and N. S. Foulkes, *Current Biology*, 2003, **13**, 2051–2057.

76

T. Matsuo, *Science*, 2003, **302**, 255–259.

77

D. J. Baker, T. Wijshake, T. Tchkonia, N. K. LeBrasseur, B. G. Childs, B. van de Sluis, J. L. Kirkland and J. M. van Deursen, *Nature*, 2011, **479**, 232–236.

78

M. Serrano and M. A. Blasco, *Nature Reviews Molecular Cell Biology*, 2007, **8**, 715–722.

79

V. Krizhanovsky, M. Yon, R. A. Dickins, S. Hearn, J. Simon, C. Miething, H. Yee, L. Zender and S. W. Lowe, *Cell*, 2008, **134**, 657–667.

80

W. Xue, L. Zender, C. Miething, R. A. Dickins, E. Hernando, V. Krizhanovsky, C. Cordon-Cardo and S. W. Lowe, *Nature*, 2007, **445**, 656–660.

81

M. Narita and S. W. Lowe, *Nature Medicine*, 2005, **11**, 920–922.

82

K. Y. Sarin, P. Cheung, D. Gilison, E. Lee, R. I. Tennen, E. Wang, M. K. Artandi, A. E. Oro and S. E. Artandi, *Nature*, 2005, **436**, 1048–1052.