

TMSDRDSI: Drug Design MSc

TMSDRDSING01: MSc Drug Design

WIBRG001, WIBRG002, WIBRG003, WIBRG004, 5 + 6

View Online



1

S. Wilhelm, Nature Reviews Drug Discovery, 2006, **5**, 835–844.

2

R. A. Smith, Bioorganic & Medicinal Chemistry Letters, 2001, **11**, 2775–2778.

3

I. Kola and J. Landis, Nature Reviews Drug Discovery, 2004, **3**, 711–716.

4

D. C. Swinney and J. Anthony, Nature Reviews Drug Discovery, 2011, **10**, 507–519.

5

R. Macarron, M. N. Banks, D. Bojanic, D. J. Burns, D. A. Cirovic, T. Garyantes, D. V. S. Green, R. P. Hertzberg, W. P. Janzen, J. W. Paslay, U. Schopfer and G. S. Sittampalam, Nature Reviews Drug Discovery, 2011, **10**, 188–195.

6

Selzer, P. M., Rohwer, A., and Marhöfer, R. J., Applied bioinformatics: an introduction, Springer, Berlin, 2008.

7

Xiong, Jin, Essential bioinformatics, Cambridge University Press, New York, 2006.

8

Orengo, Christine Ann, Thornton, Janet M., and Jones, David Tudor, Bioinformatics: genes, proteins and computers, BIOS, Oxford, 2003.

9

Zvelebil, Marketa J. and Baum, Jeremy O., Understanding bioinformatics, Garland Science, London, 2008.

10

Gu, Jenny and Bourne, Philip E., Structural bioinformatics, Wiley, Hoboken, N.J., 2nd ed., 2008, vol. Methods of biochemical analysis.

11

Petsko, Gregory A. and Ringe, Dagmar, Protein structure and function, New Science, London, 2004, vol. Primers in biology.

12

Nelson, David L., Cox, Michael M., and Lehninger, Albert L., Lehninger principles of biochemistry, W.H. Freeman, Basingstoke, 5th ed., 2008.

13

N. Chandra, Expert Opinion on Drug Discovery, 2009, **4**, 1221–1236.

14

J. P. Overington, B. Al-Lazikani and A. L. Hopkins, Nature Reviews Drug Discovery, 2006, **5**, 993–996.

15

R. Fitt and E. Nodder, *Journal of Intellectual Property Law & Practice*, 2010, **5**, 560–565.

16

M. Ikura and M. Inouye, *Nature*, 1998, **396**, 88–92.

17

K. A. Krohn and J. M. Link, *Nuclear Medicine and Biology*, 2003, **30**, 819–826.

18

K. Jarnagin, in *eLS*.

19

K. Jarnagin, *Receptor Binding in Drug Discovery*, John Wiley & Sons, Ltd, Chichester, 2001.

20

Cornish-Bowden, Athel, *Fundamentals of enzyme kinetics*, Portland, London, 3rd ed., 2004.

21

Copeland, Robert Allen, *Evaluation of enzyme inhibitors in drug discovery: a guide for medicinal chemists and pharmacologists*, J. Wiley, Hoboken, N.J., 2005, vol. *Methods of biochemical analysis*.

22

Gibb, Alasdair J., Foreman, John C., and Johansen, Torben, *Textbook of receptor pharmacology*, CRC Press, Boca Raton, FL, 3rd ed., 2011.

23

Rang, H. P. and Dale, M. Maureen, Pharmacology, Churchill Livingstone, Edinburgh, 9th ed., 2019.

24

D. Colquhoun, British Journal of Pharmacology, 1998, **125**, 923–947.

25

X. Khawaja, J. Dunlop and D. Kowal, Expert Opinion on Drug Discovery, 2008, **3**, 1267–1280.

26

T. P. Kenakin, Nature Reviews Drug Discovery, 2009, **8**, 617–626.

27

J. Dunlop, Nature Reviews Drug Discovery, 2008, **7**, 358–368.

28

A. L. Hopkins and C. R. Groom, Nature Reviews Drug Discovery, 2002, **1**, 727–730.

29

Richard M. Durbin, Nature, 2010, **467**, 1061–1073.

30

Thomas, Gareth, Fundamentals of medicinal chemistry, 2003.

31

Patrick, Graham L., An introduction to medicinal chemistry, 2017.

32

Leach, Andrew R. and Gillet, Valerie J., An introduction to chemoinformatics, 2003.

33

Engel, Thomas and Gasteiger, J., Chemoinformatics: a textbook, 2003.

34

Gasteiger, J., Handbook of chemoinformatics: from data to knowledge, 2003.

35

C. Bissantz, B. Kuhn and M. Stahl, Journal of Medicinal Chemistry, 2010, **53**, 5061–5084.

36

H. Matter, Journal of Medicinal Chemistry, 1997, **40**, 1219–1229.

37

P. Willett, J. M. Barnard and G. M. Downs, Journal of Chemical Information and Modeling, 1998, **38**, 983–996.

38

M. E. Welsch, S. A. Snyder and B. R. Stockwell, Current Opinion in Chemical Biology, 2010, **14**, 347–361.

39

C. A. Lipinski, F. Lombardo, B. W. Dominy and P. J. Feeney, *Advanced Drug Delivery Reviews*, 1997, **23**, 3–25.

40

D. F. Veber, S. R. Johnson, H.-Y. Cheng, B. R. Smith, K. W. Ward and K. D. Kopple, *Journal of Medicinal Chemistry*, 2002, **45**, 2615–2623.

41

J. F. Blake, *Medicinal Chemistry*, 2005, **1**, 649–655.

42

A. Beck, T. Wurch, C. Bailly and N. Corvaia, *Nature Reviews Immunology*, 2010, **10**, 345–352.

43

A. R. M. Bradbury, S. Sidhu, S. Dübel and J. McCafferty, *Nature Biotechnology*, 2011, **29**, 245–254.

44

D. Nagorsen and P. A. Baeuerle, *Experimental Cell Research*, 2011, **317**, 1255–1260.

45

V. Pillay, H. K. Gan and A. M. Scott, *New Biotechnology*, 2011, **28**, 518–529.

46

D. Schrama, R. A. Reisfeld and J. C. Becker, *Nature Reviews Drug Discovery*, 2006, **5**, 147–159.

47

L. M. Weiner, R. Surana and S. Wang, Nature Reviews Immunology, 2010, **10**, 317–327.

48

L. Ducry and B. Stump, Bioconjugate chemistry, 2010, **21**, 5–13.

49

S. C. Alley, N. M. Okeley and P. D. Senter, Current Opinion in Chemical Biology, 2010, **14**, 529–537.

50

S. Webb, Nature Biotechnology, 2011, **29**, 297–298.

51

P. Holliger and P. J. Hudson, Nature Biotechnology, 2005, **23**, 1126–1136.

52

M. Jinek and J. A. Doudna, Nature, 2009, **457**, 405–412.

53

D. Castanotto and J. J. Rossi, Nature, 2009, **457**, 426–433.

54

D. Grimm, Advanced Drug Delivery Reviews, 2009, **61**, 672–703.

55

A. K. Vaishnaw, J. Gollob, C. Gamba-Vitalo, R. Hutabarat, D. Sah, R. Meyers, T. de Fougères and J. Maraganore, Silence, , DOI:10.1186/1758-907X-1-14.

56

J. Shen, R. Samul, R. L. Silva, H. Akiyama, H. Liu, Y. Saishin, S. F. Hackett, S. Zinnen, K. Kossen, K. Fosnaugh, C. Vargeese, A. Gomez, K. Bouhana, R. Aitchison, P. Pavco and P. A. Campochiaro, *Gene Therapy*, 2005, **13**, 225–234.

57

R. Kalluri and K. Kanasaki, *Nature*, 2008, **452**, 543–545.

58

Human embryonic stem cells: Derivation, culture, and differentiation: A review.

59

M. Stadtfeld and K. Hochedlinger, *Genes & Development*, 2010, **24**, 2239–2263.

60

F. M. Watt and R. R. Driskell, *Philosophical Transactions of the Royal Society B: Biological Sciences*, 2010, **365**, 155–163.

61

A. C. Brignier and A. M. Gewirtz, *Journal of Allergy and Clinical Immunology*, 2010, **125**, S336–S344.

62

P.-M. Lledo, F. T. Merkle and A. Alvarez-Buylla, *Trends in Neurosciences*, 2008, **31**, 392–400.

63

C. W. Murray, *Journal of Medicinal Chemistry*, 2010, **53**, 5942–5955.

64

A. L. Hopkins, C. R. Groom and A. Alex, *Drug Discovery Today*, 2004, **9**, 430–431.

65

M. Congreve, G. Chessari, D. Tisi and A. J. Woodhead, *Journal of Medicinal Chemistry*, 2008, **51**, 3661–3680.

66

C. W. Murray and D. C. Rees, *Nature Chemistry*, 2009, **1**, 187–192.

67

N. Baurin, F. Aboul-Ela, X. Barril, B. Davis, M. Drysdale, B. Dymock, H. Finch, C. Fromont, C. Richardson, H. Simmonite and R. E. Hubbard, *Journal of Chemical Information and Modeling*, 2004, **44**, 2157–2166.

68

A. J. Woodhead, *Journal of Medicinal Chemistry*, 2010, **53**, 5956–5969.

69

J. A. DiMasi, R. W. Hansen and H. G. Grabowski, *Journal of Health Economics*, 2003, **22**, 151–185.