

## 6.5. LITERATURA

### Základní literatura:

- \* Callard R. E., Gearing A. J. H. (1994): The Cytokine FactsBook. Academic Press, London. (*kap. 6.1., kap. 6.2., kap. 6.4.*)
- \* Nicola N.A. (1994): Guidebook to Cytokines and Their Receptors. Oxford University Press, Oxford. (*kap. 6.1., kap. 6.2., kap. 6.4.*)
- \* Hardie D. G. (1992): Cell Surface Receptors – Analysis and Identification. In „Biochemical Messengers“. Chapman & Hall, London, pp. 109–146. (*kap. 6.3.*)

### Doplňující literatura:

- \* Alberts B., Bray D., Lexis J., Raff M., Roberts K., Watson J.D. (1994): Cell Signaling. In „Molecular Biology of the Cell“. Garland Publishing, New York & London, pp. 721–785. (*kap. 6.1., kap. 6.2.*)
- \* Ulrich A., Schlessinger J. (1990): Signal Transduction by receptors with tyrosine kinase activity. *Cell*, 61: 203–212. (*kap. 6.1., kap. 6.2., kap. 6.4.*)
- \* Bazan J. F. (1990): Structural design and molecular evolution of a cytokine receptor superfamily. *Proc. Natl. Acad. Sci. USA*, 87: 6934–6938. (*kap. 6.1., kap. 6.4.*)
- \* Courtneidge S. A. (1994): Non-Receptor Protein-Tyrosine Kinases. In „Protein Kinases“ (Woodgett J.R. ed.). Oxford University Press, Oxford, pp. 212–242. (*kap. 6.2.*)
- \* Hunter T., Lindberg R.A. (1994): Receptor Protein-Tyrosine Kinases. In „Protein Kinases“ (Woodgett J.R. ed.). Oxford University Press, Oxford, pp. 177–211. (*kap. 6.2.*)
- \* Stryer L. (1986): G proteins: A family of signal transducers. *Annu. Rev. Cell Biol.*, 2: 391–419. (*kap. 6.2.*)
- \* Iismaa T. P., Shine J. (1992): G protein-coupled receptors. *Curr. Opin. Cell Biol.*, 4: 195–202. (*kap. 6.2., kap. 6.4.*)
- \* Miyajima A., Kitamura T., Harada N., Yokota T., Arai K. (1992): Cytokine receptors and signal transduction. *Annu. Rev. Immunol.*, 10: 295–331. (*kap. 6.2., kap. 6.4.*)
- \* Alberts et al. (1994): Vesicular Traffic in the Secretory and Endocytic Pathways. In „Molecular Biology of the Cell“. Garland Publishing, New York & London, pp. 599–651. (*kap. 6.3.*)
- \* Gearing D. P., Zieffler S. F. (1993): The haematopoietic growth factor receptor family. *Curr. Opin. Hemat.*, 1993: 138–148. (*kap. 6.4.*)

## 7.7. LITERATURA

### Základní literatura:

- \* Hilton D. J. (1994): An Introduction to Cytokine Receptors. In „Guidebook to Cytokines and Their Receptors“ (Nicola N.A., ed.). Oxford University Press, Oxford, pp. 8–16. (kap. 7.1., kap. 7.2.)
- \* Alberts B., Bray D., Lewis J., Raff M., Roberts K., Watson J. D. (1994): Cell Signaling. In „Molecular Biology of the Cell“. Garland Publishing, New York & London, pp. 721–783. (kap. 7.1., kap. 7.2., kap. 7.3., kap. 7.4.)
- \* Hardie D. G. (1992): Biochemical Messengers. Chapman & Hall, London. (kap. 7.1., kap. 7.2., kap. 7.3., kap. 7.4., kap. 7.6.)
- \* Alberts et al. (1994): Cytoskeleton. In „Molecular Biology of the Cell“. Garland Publishing, New York & London, pp. 787–861. (kap. 7.5.)

### Doplňující literatura:

- \* Waskiewicz A. J., Cooper J. A. (1995): Mitogen and stress response pathways: MAP kinase cascades and phosphatase regulation in mammals and yeast. *Curr. Opin. Cell Biol.*, 7: 798–805. (kap. 7.1.)
- \* Woodgett J. R. (1994): Protein Kinases. Oxford University Press, Oxford. (kap. 7.1., kap. 7.4.)
- \* Dumont J. E., Jauniaux J. C., Roger P.P. (1989): The cyclic AMP-mediated stimulation of cell proliferation. *Trends Biochem. Sci.*, 14: 67–71. (kap. 7.2.)
- \* Lee S. B., Rhee S. G. (1995): Significance of PIP<sub>2</sub> hydrolysis and regulation of phospholipase C isozymes. *Curr. Opin. Cell Biol.*, 7: 183–189. (kap. 7.2.)
- \* Binggeli R., Weinstein R. C. (1986): Membrane potentials and sodium channels: Hypotheses for growth regulation and cancer formation based on changes in sodium channels and gap junctions. *J. Theor. Biol.*, 123: 377–401. (kap. 7.3.)
- \* Pouysségur J. (1985): The growth factor-activatable Na<sup>+</sup>/H<sup>+</sup> exchange system: A genetic approach. *Trends Biochem. Sci.*, 10: 453–455. (kap. 7.3.)
- \* Burwen S. J., Jones A. L. (1987): The association of polypeptide hormones and growth factors with the nuclei of target cells. *Trends Biochem. Sci.*, 12: 159–162. (kap. 7.6.)

## **8.4. LITERATURA**

### **Základní literatura:**

- \* Alberts B., Bray D., Lewis J., Raff M., Roberts K., Watson J. D. (1994): The Cell–Division Cycle. In „Molecular Biology of the Cell“. Garland Publishing, New York, pp. 830–910. (*kap. 8.1., kap. 8.3.*)
- \* Alberts et al. (1994): Cellular Mechanisms of Development. In „Molecular Biology of the Cell“. Garland Publishing, New York, pp. 1037–1137. (*kap. 8.2.*)
- \* Alberts et al. (1994): Differentiated Cells and the Maintenance of Tissue. In „Molecular Biology of the Cell“. Garland Publishing, New York, pp. 1139–1193. (*kap. 8.2.*)
- \* Mercola M., Stiles C. D. (1988): Growth factor superfamilies and mammalian embryogenesis. *Development*, 102: 451–460. (*kap. 8.2.*)
- \* Gilbert S. F. (1991): Patterns of Growth and Oncogenesis. In „Developmental Biology“. Sinauer Associates, Sunderland, pp. 718–758. (*kap. 8.3.*)

### **Doplňující literatura:**

- \* Murray A., Hunt T. (1993): The Early Embryonic Cell Cycle. In „The Cell Cycle“. W.H. Freeman, New York, pp. 16–27. (*kap. 8.1.*)
- \* Sládeček F. (1986): Vývoj zárodku, embryogeneze. In „Rozmnožování a vývoj živočichů“. Academia, Praha, pp. 202–369. (*kap. 8.1., kap. 8.2.*)
- \* Avers C. J. (1986): Cell Growth and Division. In „Molecular Cell Biology“. Addison-Wesley Publishing Company, Reading, pp. 671–722. (*kap. 8.2.*)
- \* Gilbert S. F. (1991): Determination by Progressive Cell–Cell Interactions. In „Developmental Biology“. Sinauer Associates, Sunderland, pp. 284–326. (*kap. 8.2.*)
- \* Hardie D. G. (1991): Reactin' with activin. *Curr. Biol.*, 1: 321–322. (*kap. 8.2.*)

- \* Knöchel W., Tiedemann H. (1989): Embryonic inducers, growth factors, transcription factors and oncogenes. *Cell Differ. Dev.*, 26: 163–171. (*kap. 8.2.*)
- \* Nicola N.A. (1994): Guidebook to Cytokines and Their Receptors. Oxford University Press, Oxford. (*kap. 8.2.*)
- \* Bremermann H.J. (1982): Reliability of proliferation controls. The Hayflick limit and its breakdown in cancer. *J. Theor. Biol.*, 97: 641–662. (*kap. 8.3.*)
- \* Goldstein S. (1990): Replicative senescence: The human fibroblast comes to age. *Science*, 249: 1129–1133. (*kap. 8.3.*)

## 9.4. LITERATURA

### Základní literatura:

- \* Chaloupka J. (1996): Programovaná smrt buňky. Biol. listy, 61: 249–271. (*kap. 9.1.*)
- \* Thompson B. (1995): Apoptosis in the pathogenesis and treatment of disease. Science, 267: 1456–1462. (*kap. 9.1., kap. 9.2.*)
- \* Yuan J. (1995): Molecular control of life and death. Curr. Opin. Cell Biol., 7: 211–214. (*kap. 9.2.*)
- \* Evan G. I., Brown L., Whyte M., Harrington E. (1995): Apoptosis and the cell cycle. Curr. Opin. Cell Biol. 7: 825–834. (*kap. 9.3.*)

### Doplňující literatura:

- \* Wyllie A. H. (1992): Apoptosis and the regulation of cell numbers in normal and neoplastic tissues: An overview. Cancer Metastasis Rev., II: 95–103. (*kap. 9.1, kap. 9.3.*)
- \* Barinaga M. (1996): Forging a path to cell death. Science, 273: 735–737. (*kap. 9.2.*)
- \* Cory S. (1995): Regulation of lymphocyte survival by the bcl-2 gene family. Annu. Rev. Immunol., 13: 513–543. (*kap. 9.2.*)
- \* Oltvai Z. N., Korsmeyer S.J. (1994): Checkpoints of dueling dimers foil death wishes. Cell, 79: 189–192. (*kap. 9.2.*)
- \* Nagata S., Golstein P. (1995): The Fas death factor. Science, 267: 1449–1456. (*kap. 9.2.*)
- \* Miyashita T., Krajewski S., Krajewska M., Wang H. K., Lin H. K., Liebermann D. A., Hoffmann B., Reed J. C. (1994): Tumor suppressor p 53 is a regulator of bcl-2 and bax gene expression in vitro and in vivo. Oncogene, 9: 1799–1805. (*kap. 9.3.*)

### **10.3. LITERATURA**

#### **Základní literatura:**

- \* Nicola N. A. (1994): Guidebook to Cytokines and Their Receptors. Oxford University Press, Oxford. (*kap. 10.1.*)
- \* Woodgett J. R. (1994): Protein Kinases. Oxford University Press, Oxford. (*kap. 10.1.*)
- \* Hesketh R. (1995): The Oncogene FactsBook. Academic Press, London. (*kap. 10.1., kap. 10.2.*)
- \* Marshall C. J. (1991): Tumor suppressor genes. *Cell*, 64: 313–326. (*kap. 10.2.*)

#### **Doplňující literatura:**

- \* Cory S. (1995): Regulation of lymphocyte survival by the bcl-2 gene family. *Annu. Rev. Immunol.*, 13: 513–543. (*kap. 10.1.*)
- \* Hunter T. (1997): Oncoprotein networks. *Cell*, 88: 333–346. (*kap. 10.1.*)
- \* Lewin B. (1991): Oncogenic conversion by regulatory changes in transcription factors. *Cell*, 64: 303–312. (*kap. 10.1.*)
- \* Bishop J. M. (1991): Molecular themes in oncogenesis. *Cell*, 64: 235–248. (*kap. 10.1., kap. 10.2.*)
- \* Hunter T. (1991): Cooperation between oncogenes. *Cell*, 64: 249–270. (*kap. 10.1., kap. 10.2.*)
- \* Levine A. J., Momand J., Finlay C.A. (1991): The p53 tumour suppressor gene. *Nature*, 351: 453–456. (*kap. 10.2.*)
- \* Marx J. (1993): How p53 suppresses cell growth. *Science*, 262: 1644–1645. (*kap. 10.2.*)

## 11.4. LITERATURA

### Základní literatura:

- \* Alberts B., Bray D., Lewis J., Raff M., Roberts K., Watson J. D. (1994): Cancer. In „Molecular Biology of the Cell“. Garland Publishing, New York, pp. 1255–1294. (*kap. 11.1., kap. 11.2.*)
- \* Fields B.N., Knipe D. M. (1991): Fundamental Virology. Raven Press, New York, pp. 645–813, 841–950, 989–1021. (*kap. 11.2.*)
- \* Hesketh R. (1995): The Oncogene FactsBook. Academic Press, London. (*kap. 11.2., kap. 11.3.*)
- \* Salmon S. E., Sartorelli A. C. (1994): Chemoterapie zhoubných nádorů. In „Základní & klinická farmakologie“ (Katzung B. G. ed.). Nakladatelství a vydavatelství H & H, Praha. (*kap. 11.3.*)

### Doplňující literatura:

- \* Liotta L. A., Steeg P.S., Steller-Stevenson W. G. (1991): Cancer metastasis and angiogenesis: An imbalance of positive and negative regulation. *Cell*, 64: 327–336. (*kap. 11.1.*)
- \* Vogelstein B., Kinzler K. W. (1993): The multistep nature of cancer. *Trends Genet.*, 9: 138–141. (*kap. 11.1.*)
- \* Franks L. M., Teich N. M. (1991): Introduction to the Cellular and Molecular Biology of Cancer. Oxford University Press, Oxford. (*kap. 11.1., kap. 11.2.*)
- \* Hardie D. G. (1992): Regulation of Cell Proliferation and Cancer. In „Biochemical Messengers“. Chapman & Hall, London, pp. 249–277. (*kap. 11.1., kap. 11.2.*)
- \* Varmus H., Weinberg R.A. (1993): Genes and the Biology of Cancer. Scientific American Library, New York. (*kap. 11.1., kap. 11.2.*)
- \* Greenblatt M. S., Bennett W. P., Hollstein M., Harris C. C. (1994): Mutations in the p53 tumor suppressor gene: Clue to cancer etiology and molecular pathogenesis. *Cancer Res.*, 54: 4855–4878. (*kap. 11.2.*)
- \* Chabner B. A., Collins J. M. (1990): Cancer Chemotherapy: Principles and Practice. Lippincott, Philadelphia. (*kap. 11.3.*)
- \* Nicola N. A. (1994): Guidbook to Cytokines and Their Receptors. Oxford University Press, Oxford. (*kap. 11.3.*)
- \* Thompson B. (1995): Apoptosis in the pathogenesis and treatment of disease. *Science*, 267: 1456–1462. (*kap. 11.3.*)

## 12.7. LITERATURA

### *Základní literatura:*

- \* Celis J. E. (1994): Cell Biology. A Laboratory Handbook. Academic Press, San Diego. (*kap. 12.1., kap. 12.2., kap. 12.3., kap. 12.4., kap. 12.5.*)
- \* Alberts B., Bray D., Lewis J., Raff M., Roberts K., Watson J. D. (1994): How Cells Are Studied. In „Molecular Biology of the Cell“. Garland Publishing, New York, pp. 139–194. (*kap. 12.1., kap. 12.2., kap. 12.4., kap. 12.5.*)
- \* Alberts et al. (1994): Recombinant DNA Technology. In „Molecular Biology of the Cell“. Garland Publishing, New York, pp.291–334. (*kap. 12.5.*)
- \* Alberts et al. (1994): Cell Signaling. In „Molecular Biology of the Cell“. Garland Publishing, New York, pp. 721–786. (*kap. 12.6.*)
- \* Alberts et al. (1994): The Cytoskeleton. In „Molecular Biology of the Cell“. Garland Publishing, New York, pp.787–862. (*kap. 12.6.*)

### *Doplňující literatura:*

- \* Gilbert S. F. (1991): Developmental Biology. Sinauer Associates, Sunderland. (*kap. 12.1.*)
- \* Mosmann T. (1983): Rapid colorimetric assay for cellular growth and survival. Application to proliferation and cytotoxicity assay. *J. Immunol. Methods*, 65: 55–63. (*kap. 12.2.*)
- \* Kovář J., Nečas E., Fremuth F. (1975): Studium proliferační kinetiky buněčných populací. *Biol. listy*, 40: 97–123. (*kap. 12.3.*)
- \* Murray A., Hunt T. (1993): Cells and the Cell Cycle. In „The Cell Cycle“. W.H. Freeman, New York, pp. 3–15. (*kap. 12.3., kap. 12.4.*)
- \* Murray A., Hunt T. (1993): Genetic Analysis of the Cell Cycle. In „The Cell Cycle“. W.H. Freeman, New York, pp. 28–41 (*kap. 12.4.*)
- \* Capecchi M. R. (1994): Targeted Gene Replacement. *Scientific American*, 1994: 52–59. (*kap. 12.5.*)
- \* Alberts et al. (1994): The Cell-Division Cycle. In „Molecular Biology of the Cell“. Garland Publishing, New York, pp. 830–910. (*kap. 12.6.*)