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View Online

Alberts, Bruce. (2008). Molecular biology of the cell (5th ed). Garland Science.

Atkins, P. W., & De Paula, J. (2014). Atkins' physical chemistry (Tenth edition). Oxford University Press.

Berg, Jeremy M., Tymoczko, John L., & Stryer, Lubert. (2011). Biochemistry (7th ed). W. H. Freeman.
https://bibliu.com/users/saml/samlLeicester?RelayState=eyJjdXN0b21fbGF1bmNoX3VybCI6IiMvdmlldy9ib29rcy85NzgxMzE5MjQ4MDYyL2VwdWIvT0VCUFMveGh0bWwvYmVyXzk3ODEzMTkxMTQ2NzFfY29udGVudHMuaHRtbCJ9

Binns, Christopher. (2010a). Introduction to nanoscience and nanotechnology: Vol. Wiley survival guides in engineering and science. Wiley.
http://le.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=5663768710002746&institutionId=2746&customerId=2745

Binns, Christopher. (2010b). Introduction to nanoscience and nanotechnology: Vol. Wiley survival guides in engineering and science. Wiley.
http://ezproxy.lib.le.ac.uk/login?url=http://www.myilibrary.com?id=268684

Brooker, Robert J. (2010). Biology (2nd ed). McGraw-Hill Higher Education.

Bruchez, Marcel. (1998). Semiconductor Nanocrystals as Fluorescent Biological Labels. Science, 281(5385), 2013–2016.
http://gl9sn3dh2u.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info%253Aofi%252Fenc%253AUTF-8&rfr_id=info:sid/summon.serialssolutions.com&rft_val_fmt=info:ofi/fmt:kev:mtx:journal&rft.genre=article&rft.atitle=Semiconductor+Nanocrystals+as+Fluorescent+Biological+Labels&rft.jtitle=Science&rft.au=Bruchez%252C+Marcel&rft.au=Moronne%252C+Mario&rft.au=Gin%252C+Peter&rft.au=Weiss%252C+Shimon&rft.date=1998-09-25&rft.pub=American+Association+for+the+Advancement+of+Science&rft.issn=0036-8075&rft.eissn=1095-9203&rft.volume=281&rft.issue=5385&rft.spage=2013&rft.epage=2016&rft.externalDocID=10.2307%252F2895733&paramdict=en-US

Cooper, Geoffrey M. & Hausman, Robert E. (2013). The cell: a molecular approach (6th ed). Sinauer Associates.

Daniel, M.-C., & Astruc, D. (2004). Gold Nanoparticles: Assembly, Supramolecular Chemistry, Quantum-Size-Related Properties, and Applications toward Biology, Catalysis, and Nanotechnology. Chemical Reviews, 104(1), 293–346.
https://doi.org/10.1021/cr030698+

DNA-RNA-Protein. (n.d.). http://www.nobelprize.org/educational/medicine/dna/index.html

Immunogold Labelling in Scanning Electron Microscopy. (n.d.). http://www.ebsciences.com/papers/immusem.htm

Jain, K. K. (2005). Nanotechnology in clinical laboratory diagnostics. Clinica Chimica Acta, 358(1–2), 37–54. https://doi.org/10.1016/j.cccn.2005.03.014

Lee, J.-S., Han, M. S., & Mirkin, C. A. (2007). Colorimetric Detection of Mercuric Ion (Hg2+) in Aqueous Media using DNA-Functionalized Gold Nanoparticles. Angewandte Chemie International Edition, 46(22), 4093–4096. https://doi.org/10.1002/anie.200700269

Life Cycle of an mRNA. (n.d.). http://www.sumanasinc.com/webcontent/animations/content/lifecyclemrna.html

Lodish, Harvey F. (2013). Molecular cell biology (7th ed). W.H. Freeman.

Mason, K. A., Losos, J. B., Singer, S. R., Raven, P. H., & Johnson, G. B. (2017). Biology (Eleventh edition). McGraw-Hill Education.

Medical Histology -- Ultrastructure of the Cell (Electron Micrographs). (n.d.). http://www.bu.edu/histology/m/t_electr.htm

Monoclonal antibodies. (n.d.). http://www.sumanasinc.com/webcontent/animations/content/monoclonalantibodies.html

mRNA Splicing. (n.d.). http://www.sumanasinc.com/webcontent/animations/content/mRNAsplicing.html

Nelson, David L., Cox, Michael M., & Lehninger, Albert L. (2013). Lehninger principles of biochemistry (6th ed). W.H. Freeman. https://bibliu.com/users/saml/samlLeicester?RelayState=eyJjdXN0b21fbGF1bmNoX3VybCI6IiMvdmlldy9ib29rcy85NzgxMzE5MTUwODc3L2VwdWIvT0VCUFMveGh0bWwvbmVsXzk3ODE0NjQxODc5NTdfY29udC5odG1sIn0%3D

Patricia Berger. (1999). Preparation and properties of an aqueous ferrofluid. Journal of Chemical Education, 76(7). http://gl9sn3dh2u.search.serialssolutions.com/?ctx_ver=Z39.88-2004&ctx_enc=info%253Aofi%252Fenc%253AUTF-8&rfr_id=info:sid/summon.serialssolutions.com&rft_val_fmt=info:ofi/fmt:kev:mtx:journal&rft.genre=article&rft.atitle=Preparation+and+properties+of+an+aqueous+ferrofluid&rft.jtitle=Journal+of+Chemical+Education&rft.au=Patricia+Berger&rft.au=Nicholas+B+Adelman&rft.au=Katie+J+Beckman&rft.au=Dean+J+Campbell&rft.date=1999-07-01&rft.pub=American+Chemical+Society&rft.issn=0021-9584&rft.eissn=1938-1328&rft.volume=76&rft.issue=7&rft.spage=943&rft.externalDocID=42639843&paramdict=en-US

Plasmid Cloning. (n.d.). http://www.sumanasinc.com/webcontent/animations/content/plasmidcloning.html

Polyribosomes. (n.d.). http://www.sumanasinc.com/webcontent/animations/content/polyribosomes.html

Protein Secretion. (n.d.). http://www.sumanasinc.com/webcontent/animations/content/proteinsecretionmb.html

Reece, Jane B. & Campbell, Neil A. (2011). Biology (9th ed). Pearson Education. http://le.alma.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=5663610340002746&institutionId=2746&customerId=2745

Rodwell, V. W., & Bender, D. A. (2018). Harper's illustrated biochemistry (Thirty-first edition). McGraw-Hill Education.

Schmid, Günter. (2010). Nanoparticles: from theory to application (2nd ed. revised and updated). Wiley-VCH. http://ezproxy.lib.le.ac.uk/login?url=http://www.myilibrary.com?id=278389

Shukla, R., Chanda, N., Zambre, A., Upendran, A., Katti, K., Kulkarni, R. R., Nune, S. K., Casteel, S. W., Smith, C. J., Vimal, J., Boote, E., Robertson, J. D., Kan, P., Engelbrecht, H., Watkinson, L. D., Carmack, T. L., Lever, J. R., Cutler, C. S., Caldwell, C., … Katti, K. V. (2012). Laminin receptor specific therapeutic gold nanoparticles (198AuNP-EGCg) show efficacy in treating prostate cancer. Proceedings of the National Academy of Sciences, 109 (31), 12426–12431. https://doi.org/10.1073/pnas.1121174109

Tipler, Paul A. & Mosca, Gene P. (2008). Physics for scientists and engineers: with modern physics (6th ed). W.H. Freeman. https://bibliu.com/app/#/view/books/9781319155988/pdf2htmlex/index.html

Translation. (n.d.). http://www.sumanasinc.com/webcontent/animations/content/translation.html

Virtual Cell Animation Collection. (n.d.). http://vcell.ndsu.nodak.edu/animations/