

DAFTAR PUSTAKA

- Alston, D., M. Reding., M. Murray, 2010. Apple Aphids. Utah State University. Utah Pest Fact Sheet: 7p
- Ayoub, N.A., Garb, J.E., Tinghitella, R.M., Collin, M.A., and Hayashi, C.Y. 2007. Blueprint for a High-Performance Biomaterial: Full-Length Spider *Dragline* Silk Genes. PLoS one 2, e514.
- Chanteux, H., Mingeot-Leclercq, M.-P., Sonveaux, E., Van Bambeke, F., and Tulkens, P.M. 2003. Intracellular Accumulation and Activity of Ampicillin Used as Free Drug and as Its Phthalimidomethyl or Pivaloyloxymethyl Ester (Pivampicillin) against *Listeria* Monocytogenes in J774 Macrophages. Journal of Antimicrobial Chemotherapy 52, 610-615.
- Craig, C.L. 1997. Evolution of Arthropod Silks. Annual review of entomology 42, 231-267.
- Eisoldt, L., Smith, A., and Scheibel, T. 2011. Decoding the Secrets of Spider Silk. Materials Today 14, 80-86.
- Fang, S.M., Hu, B.L., Zhou, Q.Z., Yu, Q.Y., and Zhang, Z. 2015. Comparative Analysis of the Silk Gland Transcriptomes between the Domestic and Wild Silkworms. BMC genomics 16, 1.
- Foelix, R.F.R.F. (1996). Biology of Spiders.330p
- Gaines, I., and Marcotte, W.R. 2008. Identification and Characterization of Multiple Spidroin 1 Genes Encoding Major Ampullate Silk Proteins in *Nephila Clavipes*. Insect molecular biology 17, 465-474.
- Gosline, J., Guerette, P., Ortlepp, C., and Savage, K. 1999. The Mechanical Design of Spider Silks: From Fibroin Sequence to Mechanical Function. Journal of Experimental Biology 202, 3295-3303.
- Green, M.R., and Sambrook, J. 2012. Molecular Cloning: A Laboratory Manual. Fourth Edition. Cold Spring Harbor Laboratory
- Harvey, M.S., Austin, A.D., and Adams, M. 2007. The Systematics and Biology of the Spider Genus *Nephila* (Araneae: Nephilidae) in the Australasian Region. Invertebrate Systematics 21, 407-451.
- Hecker, K.H., and Roux, K.H. 1996. High and Low Annealing Temperatures Increase Both Specificity and Yield in Touchdown and Stepdown Pcr. Biotechniques 20, 478-485.

- Hinman, M.B., and Lewis, R.V. 1992. Isolation of a Clone Encoding a Second *Dragline* Silk Fibroin. *Nephila Clavipes Dragline* Silk Is a Two-Protein Fiber. *Journal of Biological Chemistry* 267, 19320-19324.
- Ishii, K., and Fukui, M. 2001. Optimization of Annealing Temperature to Reduce Bias Caused by a Primer Mismatch in Multitemplate Pcr. *Applied and Environmental Microbiology* 67, 3753-3755.
- Jenkins, J.E., Holland, G.P., and Yarger, J.L. 2012. High Resolution Magic Angle Spinning Nmr Investigation of Silk Protein Structure within Major Ampullate Glands of Orb Weaving Spiders. *Soft Matter* 8, 1947-1954.
- Jamsari. 2007. *Bioteknologi Pemula : Prinsip Dasar dan Aplikasi Analisis Molekuler*. Unri Press. Pekanbaru. 193 hal.
- Jin, H.J., and Kaplan, D.L. 2003. Mechanism of Silk Processing in Insects and Spiders. *Nature* 424, 1057-1061.
- Kainz, P. 2000. The Pcr Plateau Phase–Towards an Understanding of Its Limitations. *Biochimica et Biophysica Acta (BBA)-Gene Structure and Expression* 1494, 23-27.
- Keten, S., and Buehler, M.J. 2010. Nanostructure and Molecular Mechanics of Spider *Dragline* Silk Protein Assemblies. *Journal of the Royal Society Interface* 7, 1709-1721.
- Kheath. 2011. *Biotechnology Explorer Ligation Module Instruction Manual*. Bio-Rad: 60 Hal.
- Klug, W.S, Cummings, M.R., Spencer, C.A., and Palladino, M.A. 2012. *Concept of genetics*. 10th ed. Cenvo Publisher Services/Nesbitt Graphics, Inc. 895p.
- Lee, S.V., and Bahaman, A.R. 2012. Discriminatory Power of Agarose Gel Electrophoresis in DNA Fragments Analysis. *Gel Electrophoresis-Principles and Basics*.
- Mondal, M. 2007. The Silk Proteins, Sericin and Fibroin in Silkworm, *Bombyx Mori* Linn.,-a Review. *Caspian Journal of Environmental Sciences* (5), 63-76.
- McPherson, M., and Moller, S. 2006. *PCR Second Edition*. Institute of Molecular and Cellular Biology. University of leeds. Taylor and Francis Group. UK: 305 Hal
- Navajas, M., Gutierrez, J., Lagnel, J., and Boursot, P. 1996. Mitochondrial Cytochrome Oxidase I in Tetranychid Mites: A Comparison between Molecular Phylogeny and Changes of Morphological and Life History Traits. *Bulletin of Entomological Research* (86), 407-418.

- Nimmen, E. V., Gellynck, K., Ghysens, T., Langehove, L. V., Martens, J. 2005. Departement of Textile. Ghent University. Belgium (33) : 629-639.
- Promega. 2010. pGEM®-T and pGEM®-T *Easy* Vector Systems, Instructions for Use of Products A1360, A1380, A3600 and A3610.
- Promega. 2010. Wizard® SV Gel and PCR Clean-Up System, Instructions for Use for Products A9280, A9281, A9282 and A9285. Promega, USA.
- Pouchkina-stantcheva. S., Vollrath, F., Engström, W., and Arias, A. F. 2006 Cancer Genomic & Proteomic. Departement of Biosciences and Veterinary Public health, Faculty of Veterinary Medicine Swedish University of Agricultural sciences. (3): 83-87.
- Raven, P. H., and Johnson, G. B. 2002. Biology. 6th ed. McGraw-Hill Company, Inc., New York. 1239p.
- Rengasamy, R.S., Jassal, M., and Rameshkumar, C. 2005. Studies on Structure and Properties of Nephila Spider Silk *Dragline*. *Autex Res. J* 5, 30-39.
- Rising, A., Nimmervoll, H., Grip, S., Fernandez-Arias, A., Storckenfeldt, E., Knight, D.P., Vollrath, F., and Engström, W. 2005. Spider Silk Proteins-Mechanical Property and Gene Sequence. *Zoological science* 22, 273-281.
- Rosilawati, M.L., Sudarmono, P., and Ibrahim, F. 2002. Sensitivitas Metode Pcr (Polymerase Chain Reaction) Dalam Mendeteksi Isolat Klinis *Mycobacterium Tuberculosis*. *J Kedokter Trisakti* 21, 7-14.
- Saravanan, D. 2006. Spider Silk-Structure, Properties and Spinning. *Journal of textile and apparel, technology and management* 5, 1-20.
- Slotta, U., Mougín, N., Römer, L., and Leimer, A.H. 2012. Synthetic Spider Silk Proteins and Threads. *Chemical Engineering Progress* 108, 43-49.
- Singh, V. K. and Kumar, A. 2001. PCR Primer Design. *Molecular Biology Today*. (2): 27 – 32.
- Teulé, F., Addison, B., Cooper, A.R., Ayon, J., Henning, R.W., Benmore, C.J., Holland, G.P., Yarger, J.L., and Lewis, R.V. 2012. Combining Flagelliform and *Dragline* Spider Silk Motifs to Produce Tunable Synthetic Biopolymer Fibers. *Biopolymers* 97, 418-431.
- Tokareva, O., Michalczechen-Lacerda, V.A., Rech, E.L., and Kaplan, D.L. 2013. Recombinant DNA Production of Spider Silk Proteins. *Microbial biotechnology* 6, 651-663.
- Turner, P., McLennan, A., Bates, A., and White, M. 2005. *Molecular Biology*. Third Edition. Universitas of Liperpool. UK. *Taylor & Francis Group*. 385p

- Vink, C.J., Thomas, S.M., Paquin, P., Hayashi, C.Y., and Hedin, M. 2005. The Effects of Preservatives and Temperatures on Arachnid DNA. *Invertebrate Systematics* 19, 99-104.
- Vollrath, F., and Knight, D.P. 2001. Liquid Crystalline Spinning of Spider Silk. *Nature* 410, 541-548.
- Wang, N., Shi, H., Yao, Q., Zhou, Y., Kang, L., Chen, H., and Chen, K. 2011. Cloning, Expression and Characterization of Alcohol Dehydrogenases in the Silkworm *Bombyx Mori*. *Genetics and molecular biology* 34, 240-243.
- Wong, D.W.S. 2006. *The ABC of Gene Cloning*. Second Edition. Printed in the United States of America. Springeronline.com. 227p.
- Xia, X.-X., Qian, Z.-G., Ki, C.S., Park, Y.H., Kaplan, D.L., and Lee, S.Y. 2010. Native-Sized Recombinant Spider Silk Protein Produced in Metabolically Engineered *Escherichia Coli* Results in a Strong Fiber. *Proceedings of the National Academy of Sciences* 107, 14059-14063.
- Xu, M., and Lewis, R.V. 1990. Structure of a Protein Superfiber: Spider *Dragline* Silk. *Proceedings of the National Academy of Sciences* 87, 7120-7124.
- Yusuf, Z.K. 2010. Polymerase Chain Reaction. *Saintek* (5). 6p.

