

DAFTAR PUSTAKA

- Barbosa, M.A and Martin, M.C.L. 2018. *Peptides and Proteins as Biomaterials for Tissue Regeneration and Repair*. Woodhead Publishing. United Kingdom. Page: 2
- Busta, R.D., Roesma, D.I., and Tjong, D.H. 2018. Application PCR-RFLP For Identification and Autentification Hylarana chalconota (Shlegel, 1837) Complex in West Sumatra Barat. *IOSR Journal of Pharmacy and Biological Sciences (IOSR-JPBS)*. 13(4):1-4
- Catsimpoolas, N. 1976. *Methods of Protein Separation (Biologi Separation)*. Plenum Press, New York.
- Daniel S. S. de M., Tiago B. R., Ana P. de A. dos S., Adriana S. P., Leandro S.M-D., Najla B. M., Juliana P. Z., Rodrigo G. S., Carolina B. G. T., Andreimar, M. S., Angelo R. de M. S., Dinara J. M., Jenifer S., Cleópatra A da S. C, Daniel C. P., and Leonardo A. C. 2019. Biochemical and Biological Profile of Parotoid Secretion of the Amazonian *Rhinella marina* (Anura: Bufonidae). *Hindawi. BioMed Research International*. ID 2492315
- Dubois, A., 1992. Notes sur la classification des Ranidae (Amphibiens anoures). *Bulletin Mensuel de la Societe Linneenne de Lyon* 61, 305–352.
- Duellman W E & Trueb L. 1994. *Biology of amphibians*. McGraw-Hill. New York.
- Ernst, O and Zor, T. 2010. Linearization of the Bradford Protein Assay. *JoVE*. 38:1-6
- Fusco, L.S., Cajade, R., Pineiro, J.M., Torres, A.M., Igor R. F. da Silva, Hyslop, S., Leiva, L.C., Pimenta, D.C., Bustillo, S. 2020. Biochemical characterization and cytotoxic effect of the skin secretion from the red-spotted Argentina frog *Argenteohyla siemersi* (Anura: Hylidae). *J Venom Anim Toxins incl Trop Dis*.26: e20190078
- Grant, J. B and Land B. 2002. Transcutaneous amphibian stimulator (TAS): A device of the collection of amphibian skin secretions. *Herpetological Review*. 33:38-41
- Garfin, D.E. 1990. One-Dimensional Gel Electrophoresis. *Methods in Enzymology*. 182: 425-441.

- Garfin, D.E. 2003. *Gel Electrophoresis of Protein*. Oxford University Press. UK. Page: 5
- Gusman, D. 2003. Morfometri Spesies Katak dari Famili Bufonidae dan Ranidae di Sumatera Barat. *Skripsi*. Padang. Universitas Andalas.
- Hames, B.D. 1998. *Gel Electrophoresis of Protein. A Practical Approach Third Edition*. Oxford University Press. New York. 1-30
- Inger, R.F. 1966. The Systematics and Zoogeography of the Amphibia of Borneo. *Fieldiana: Zoology*. Field Museum of Natural History. Vol. 52.
- Inger, R.F., Stuart, B.L., Iskandar, D.T. 2009. Systematics of A Widespread Southeast Asian Frog, *Rana Chalconota* (Amphibia: Anura: Ranidae). *Zoological Journal of the Linnean Society*. 155(1):123-147
- Jessa, L.W., E. Sean, L.F., and Siler C.D. 2016. Review of Morphometric Measurement Used in Anuran Species Description and Recommendation for a Standardized Approach. *Zootaxa*. 4072 (4): 477-495
- Ku, H.K., Lim, H.M., Oh, K.H., Yang, H.J., Jeong, J.S., Kim, S.K. 2013. Interpretation of protein quantitation using the Bradford assay: comparison with two calculation models. *Analytical Biochemistry*. 434(1):178-180.
- Kumar, A. 2010. Gene: Expression and Regulation. <https://www.researchgate.net/publication/260032499>. Diakses 17 Juli 2020
- Kurien, B.T and Scofield, R.H. 2012. Protein Electrophoresis Methods and Protocols. Humana Press. USA. 24-26
- Kurniati, H. 2012. Cara Mudah Membedakan Morfologi Kodok Kelompok *Hylarana chalconota* Asal Sumatra. *Fauna Indonesia*, 11 (2): 1-5.
- Kusrini, M.D. 2013. *Panduan Bergambar Identifikasi Amfibi Jawa Barat*. IPB. Bogor. ISBN: 978-979-9337-53-5.
- Laemmli U.K. 1970. Cleavage of Structural Protein During the Asembly of the Head of Bacteriophage T4. *Nature*. 227:680-685
- Lazarus, L. H and Attila, M. 1993. The toad, ugly and venomous, wears yet a precious jewel in his skin. *Progress in Neurobiology*. 41(4): 473-507
- Lehnninger, A.L. 2013. *Principles of biochemistry 7th*. W. H. Freeman and Company. New York. ISBN-13: 978-1-4641-0962-1. Page: 75, 88, 96-97

- Lintner, K. 2010. *Peptide and Potein*. Enterprise Technology/Sederma SAS. France.
- Ma, J., Luo, Y., Ge, L., Wang, L., Zhou, M., Zhang, Y., Duan, J., Chen, T and Shaw, C. 2014. Ranakinestatin-PPF from the Skin Secretion of the Fukien Gold-Striped Pond Frog, *Pelophylax plancyi fukienensis*: A Prototype of a Novel Class of Bradykinin B2 Receptor Antagonist Peptide from Ranid Frogs. *Hindawi. The Scientific World Journal*. Article ID 564839
- Margolis, J and Kenrick, K.G. 1967. Polyacrylamide gel-electrophoresis across a molecular sieve gradient. *Nature*. 214:1334–1336
- Maurer, H.R. 1971. *Disc electrophoresis and related techniques of polyacrylamide gel electrophoresis, 2nd edition*. Walter de Gruyter. Berlin.
- Nicholas, F.W. 1987. *Veterinary Genetic*. Clareondon Press. Oxford
- Nicholas, P and Amri, E. 2009. The dermaseptin superfamily: a gene-based combinatorial library of antimicrobial peptides. *Biochim Biophys Acta*. 1537-1550.
- Nikolaieva, I., Dudkina, Y., Oliinyk1, O., Oskyro, O. Marushchak, O., Halenova, T. Savchuk, O. 2018. Amphibian Skin Secretions: A Potential Source of Proteolytic Enzymes. *Biotechnologia Acta*. 11(5): 42-48
- Noble, J.E., and Bailey, J.A. 2009. Quantitation of protein. *Methods Enzymol*. 463:73-95.
- Oktavina, M.A dan Pratiwi, R. 2015. Pola Protein Sekret Kelenjar Parotoid Tiga Spesies Kodok dan Sekret Kelenjar Kulit Katak Kongkang Racun (*Odorrana hosii* Boulenger,1891) Melalui SDS-PAGE. Seminar Nasional Konservasi dan Pemanfaatan Sumber Daya Alam. SP005- 032
- Oliver, L.A. Prendini, E., Kraus, F., Raxworthy, C.J. 2015. Systematics and biogeography of the Hylarana frog (Anura: Ranidae) radiation across tropical Australasia, Southeast Asia, and Africa. *Molecular Phylogenetics and Evolution* (90) 176–192.
- Quagliata, S., Malentachhi C, Delfino C, Brunasso A. M. A, and Delfino G. 2006. Adaptive evolution of secretory cell lines in vertebrate skin. *Caryologia*. 59:187–206.
- Roy, S and Kumar, V. 2014. A Practical Approach on SDS PAGE for Separation of Protein. *International Journal of Science and Research*. 3(8): 955-960.

- Sciani, J.M., Angeli, C.B., Antoniazzi, M.M., Jared, C., Pimenta, D.C. 2013. Differences and Similarities among Parotoid Macrogland Secretions in South American Toads: A Preliminary Biochemical Delineation. *Hindawi*. Article ID 937407.
- Sewald, N dan Jakubke, H.D. 2009. *Peptide: Chemistry and Biology. 2nd Edition.* VILEY-VCH Verlag GmbH & Co KGaA. Weinheim. Jerman. Page: 7
- Shapiro, A.L., Viñuela, E., Jacob V. Maizel Jr. 1967. Molecular Weight Estimation of Polypeptide Chains by Electrophoresis In SDS-Polyacrylamide Gels. *Biochemical and Biophysical Research Communications*. 28(5):815-820.
- Smith, B. P., Williams C. R., Tyler M. J, Williams B. D. 2004. A survey of frog odorous secretions, their possible functions, and phylogenetic significance. *Appl. Herp.* 2:47–82.
- Steinberg, T.H. 2009. Protein gel staining methods: an introduction and overview. *Methods Enzymol.* 463:541–563.
- ThermoScientific. 2009. *Coomassie (Bradford) Protein Assay Kit*. Thermo Fisher Scientific Inc. USA. www.thermoscientific.com. Diakses 8 September 2019.
- Tjong, D. H., Syaifulah, Indra, S., Amelia, A. 2012. Kariotipe *Rana chalconota* Kompleks yang terdapat di Sumatera Barat. *Biospecies*. 5(2): 13-19.
- Tyler, M.J., David, J.M.S and John H.B. 1992. A Novel Method for the Release and Collection of Dermal, Glandular Secretions from the Skin of Frogs. *Journal of Pharmacological and Toxicological Methods*. Vol. 28(4): 199-200.
- Varga, J.F.A., Marinos, M.P and Katzenback, B.A. 2019. Frog Skin Innate Immune Defences: Sensing and Surviving Pathogens. *Front Immunol.* PMID: 30692997
- Vasudevan, D and Vaidyanathan, K. 2017. Protein: Structure and Function. <https://www.researchgate.net/publication/327245570>. Diakses 22 Maret 2020
- Volgin, D.V. 2014. Gene Expression: Analysis and Quantitation. Animal Biotechnology. Elsevier Inc.
- Walker, J.M. 2002. *The Protein Protocol Handbook*. 2ed. Humana Press Inc. New Jersey.
- Wang, R., Zhou, Y., Chen, T., Zhou, M., Wang, L., Shaw. C. 2015. Identification and Functional Analysis of a Novel Tryptophyllin Peptide from the Skin of the

Red-eye Leaf Frog, *Agalychnis callidryas*. *International Journal of Biological Sciences*. 11(2): 209-219.

Yuliatmy, P., Roesma, D.I., and Tjong, D.H. 2016. Genetic variation of *Rana parvaccolla* (Inger, Stuart and Iskandar, 2009) based on DNA microsatellites in West Sumatra. *J. Entomology and Zoology Studies*. 4(4): 1068-1071

Zahari, M.S.A., Darnis, D.S., Hamid, T.H.T.A. 2015. Protein Profile and Antimicrobial Activity of common Sunda Toad *Duttaphrynus melanostictus* Paratoid Secretion. *3rd International Conference on Biological, Chemical & Environmental Sciences* (BCES-2015). 56-58

