

## DAFTAR PUSTAKA

- Abdalla, M. 2015. Ghrelin – Physiological functions and regulation. *European Endocrinology*, pp. 90-95.
- Abdelbary, M., Rafikova, O., Gillis, E., Musall, J., et al. 2019. Necrosis contributes to the development of hypertension in male, but not female, spontaneously hypertensive rats. *Hypertension*, 74(6): 1524-1531
- Adebowale, Y., Schwarzenbolz, U., & Henle, T. 2011. Protein isolates from bambara groundnut (*Voandzeia subterranea* L.): Chemical characterization and functional properties. *International Journal of Food Properties*, 14(4):758-775.
- Alhamdi, M., Setiawan, A., Ilyas, S., & Ho, W. 2020. Genetic variability of Indonesian landraces of *Vigna subterranea*: Morphological characteristics and molecular analysis using SSR markers. *Biodiversitas*, 21(9): 3929-3937.
- Anhwange, B., & Atoo, G. 2015. Proximate composition of indigenous bambara nuts (*Vigna subterranea* (L.) Verdc). *SCSR Journal of Pure and Applied Sciences*, 2(1): 11-16.
- Arackal, A., & Alsayouri, K. 2021. *Histology, Heart*. StatPearls Publishing. Treasure Island, pp. 1-9.
- Arifin, W., & Zahrudin, W. 2017. Sample size calculation in animal studies using resource equation approach. *Malays J Med Sci*, 24(5): 101-105.
- Arya, S., Salve, A., & Chauhan, S. 2015. Peanuts as functional food: a review. *Journal of Food Science and Technology*, 53(1):31-41.
- Bacova, B., Andelova, K., Sykora, M., Benova, T., Barancik, M., Kurahara, L., & Tribulova, N. 2022. Does myocardial atrophy represent anti-arrhythmic phenotype?. *Biomedicines*, 10: 1-16.
- Ballenger, L. 1999. *Mus musculus*. Animal Diversity Web. [https://animaldiversity.org/accounts/Mus\\_musculus/](https://animaldiversity.org/accounts/Mus_musculus/). Diakses pada tanggal 16 Januari 2022 pukul 10:27 WIB.
- Bancroft, J., dan Cook, H. 1984. *Manual of Histological Techniques*. Longman Singapore Publisher. Singapore, pp. 73-84.
- Baskin, K., & Taegtmeier, H. 2011. Taking pressure off the heart: The ins and outs of atrophic remodelling. *Cardiovascular Research*, 90: 243-250.
- Baudouy, D., Michiels, J., Vukolic, A., Wagner, K., & Wagner, N. 2017. Echocardiographic and histological examination of cardiac morphology in mouse. *JOVE*, 128: 1-9.
- Berridge, B., Mowat, V., Nagai, H., Nyska, A., Okazaki, Y., Clements, P., Rinke, M., Snyder, P., Boyle, M., & Wells, M. 2016. Non-proliferative and proliferative lesions of the cardiovascular system of the rat and mouse. *J Toxicol Pathol*, 29(3): 1-47.
- Bhagavan, N.V., & Eun-Ha, C. 2015. *Essentials of Medical Biochemistry With Clinical Cases Second Edition*. Elsevier Science Publishing. San Diego, pp. 21-29.
- Brennan, I., Luscombe-Marsh, N., Seimon, R., Otto, B., Horowitz, M., Wishart, J., & Feinle-Bisset. 2012. Effect of fat, protein, and carbohydrate and protein load on appetite, plasma cholecystokinin, peptide YY, and ghrelin, and energy

- intake in lean and obese men. *Am J Physiol Gastrointest Liver Physiol*, 303: 129-140.
- Bryda, E. 2013. The mighty mouse: The impact of rodents on advances in biomedical research. *RRRC*, 110(3): 207-211.
- Capriotti, A., Caruso, G., Cavaliere, C., Samperi, R., Stampachiacchiere, S., Choizzi, R., & Lagana, A. 2014. Protein profile of mature soybean seeds and prepared soybean milk. *Agricultural and Food Chemistry*, 62(40): 9893-9899.
- Carbone, J., & Pasiakos, S. 2019. Dietary protein and muscle mass: Translating science to application and health benefit. *Nutrients*, 11(1136): 1-13.
- Cosper, P., Harvey, P., & Leinwand, L. 2012. Interferon- $\gamma$  causes cardiac myocyte atrophy via selective degradation of myosin heavy chain in a model of chronic myocarditis. *The American Journal of Pathology*, 181(6): 2038-2046.
- Curfs, J., Ritskes-Hoitinga, M., & Chwalibog, A. 2011. Nutrient requirements, experimental design, and feeding schedule in animal experimentation, in book: *Hanbook of Laboratory Animal Science*, pp. 305-340.
- da Silva, R., Mesquita, F., Andreo, M., Assalin, H., Gontijo, J., & Boer, P. 2013. Effect of gestational protein restriction on left ventricle hypertrophy and heart angiotensin II signaling pathway in adult offspring rats. *Health*, 5(4A): 78-84.
- Danielewicz, H., Myszczyzyn, G., Debinska, A., Myszkal, A., Boznanski, A., & Hirnle, L. 2017. Diet in pregnancy-more than food. *Eur J Pediatr*, 176:1573-1579.
- Deer, R., & Volpi, E. 2015. Protein intake and muscle function in older adults. *Curr Opin Clin Nutr Metab Care*, 18(3): 248-253.
- De Jong, W., Carraway, J., & Geertsma, R. 2012. In vivo and in vitro testing for the biological safety evaluation of biomaterials and medical device. In book: *Biocompatibility and Performance of Medical Device*. Woodhead Publishing. Cambridge, pp. 120-158.
- de Oliveira, J., Lisboa, P., de Moura, E., Barella, L., et al. 2014. Poor pubertal protein nutrition distrubs glucose-induced insulin secretion process in pancreatic islets and programs rats in adulthood to increase fat accumulation. *Endocrinology Journals*, 216(2): 195-206.
- Derelanko, M. 2000. *Toxicologist's Pocket Handbook*. CRC Press. Florida, pp. 2-9.
- Desmawati, D., & Sulastri, D. 2015. Phytoestrogens and their health effect. *Journal of Medical Sciences*, 7(3): 495-499.
- Diana, F. 2009. Fungsi dan metabolisme protein dalam tubuh manusia. *Jurnal Kesehatan Masyarakat*, 4(1): 47-52.
- Ferreira, A., Ribeiro, M., Peres, M., Pioban, S., et al. 2022. Protein restriction in the peri-pubertalperiod induces autonomic dysfunction and cardiac and vascular structural changes in adult rats. *Frontiers in Physiology*, 13(8401790): 1-14.
- Frangogiannis, N. 2015. Inflammation in cardiac injury, repair and regeneration. *Curr Opin Cardiol*, 30(3): 240-245.
- Frey, N., Katus, H., Olson, E., & Hill, J. 2004. Hypertrophy of the heart. *Circulation*, 109: 1580-1589.
- Galati, G., Leone, O., Pasquale, F., Olivotto, I., Biagini, E., Grigioni, F., et al. 2016. Histological and histometric characterization of myocardial fibrosis in end

- stage hypertrophic cardiomyopathy: A clinical-pathological study of 30 explanted hearts. *Circ Heart Fail*, pp. 1-10.
- Ghugre, N., Pop, M., Thomas, R., Newbigging, S., Qi, X., Barry, J., Strauss, B., & Wright, G. 2017. Hemorrhage promotes inflammation and myocardial damage following acute myocardial infarction: Insights from a novel preclinical model and cardiovascular magnetic resonance. *Journal of Cardiovascular Magnetic Resonance*, 19(50): 1-13.
- Gilani, G., Cockell, K., & Sepehr, R. 2005. Effects of antinutritional factors on protein digestibility and amino acid availability in foods. *Journal of AOAC International*, 88(3): 967-985.
- Golden, M. 1985. *The Consequences of Protein Deficiency in Man and Its Relationship to The Futures of Kwashiorkor*. pp. 169-187.
- Goudoever, J., Vlaardingerbroek, H., van den Akker, C., Groof, F., & van der Schoor, S. 2014. Amino acids and proteins. *World Review of Nutrition and Dietetics*, 110: 49-63.
- Gupta, N., Srivastava, N., & Bhagyawant, S. 2018. Vicilin – A major storage protein of mungbean exhibits antioxidative potential, antiproliferative effects and ACE inhibitory activity. *PLoS ONE*, 13(2): 1-17.
- Haque, A., Wahid, B., Tariqujjaman, Khanam, M., Farzana, F., Ali, M., Naz, F., Sanin, K., Faruque, Ahmed, T. 2022. Stunting status of ever-married adolescent mothers and its association with childhood stunting with a comparison by geographical region in Bangladesh. *Environmental Research and Public Health*, 19(6748): 1-12.
- Harsono, A., Harnowo, D., Ginting, E., & Elisabeth, D. 2021. Soybean in Indonesia: Current status, challenges and opportunities to achieve self-sufficiency. *IntechOpen*, pp. 1-20.
- Hasanah, U., Rusny, & Masri, M. 2015. Analisis pertumbuhan mencit (*Mus musculus* Linnaeus, 1758) ICR dari hasil perkawinan *inbreeding* dengan pemberian pakan AD1 dan AD2. *Prosiding Seminar Nasional Mikrobiologi Kesehatan dan Lingkungan*, hal. 140-145.
- Haschek, W., Wallig, M., & Rousseaux, C. 2010. *Fundamental of Toxicologic Pathology 2<sup>nd</sup> Edition*. Elsevier, pp. 333-334.
- Hashimoto, K., Kodama, A., Ohira, A., Kimoto, M., Nakagawa, R., et al. 2021. Transient induction of cell cycle promoter *Fam64a* improves cardiac function through regulating *Klf15*-dependent cardiomyocyte differentiation in mice. *BioRxiv*. (preprint)
- Hennig, M., Ewering L., Pyschny, S., Shimoyama, S., Olecka, M., Ewald, D., Margarin, M., Uebing, A., Thierfelder, L., Jux, C., & Drenckhanhn, J.D. 2019. Dietary protein restriction throughout intrauterine and postnatal life results in potentially beneficial myocardial tissue remodeling in the adult mouse heart. *Nature research*, 9(15126): 1-18.
- Herring, C., Bazzar, F., Johnson, G., & Wu, G. 2018. Impacts of maternal dietary protein intake on fetal survival, growth, and development. *Experimental Biology and Medicine*, 243: 525-533.
- Hudson, J., Baum, J., Diaz, E., & Borsheim, E. 2021. Dietary protein requirements in children: Methods for consideration. *Nutrients*, 13: 1-14.
- Irena, Z., Irena, R., Rajna, M., Katarina, M., Iva, A., Jasminka, K., & Vladmiri, P. 2016. Characterization of intor: Swiss albino mice adopted in the institute of

- virology, vaccines and sera – Torlak, Belgrade in the early twentieth century. *Acta Veterinaria-Beograd*, 66(3): 279-293.
- Jacques, H., Leblanc, N., Papineau, R., Richard, D., & Core, C. 2010. Peanut protein reduces body protein mass and alters skeletal muscle contractile properties and lipid metabolism in rats. *British Journal of Nutrition*, 103: 1331-1339.
- Ji, N., Qi, Z., Wang, Y., Yang, Z., Yan, Z., Li, M., Ge, Q., & Xhang, J. 2021. Pyroptosis: A new regulating mechanism in cardiovascular disease. *Journal of Inflammation Research*, 14: 2647-2666.
- Kalbe, C., Lösel, D., Block, J., Lefaucheur, L., Brüßow, K.-P., Bellmann, O., Pfuhl, R., Puppe, B., Otten, W., & Metges, C. 2017. Moderate high or low maternal protein diets change gene expression but not the phenotype of skeletal muscle from porcine fetuses. *Domest. Anim. Endocrinol*, 58: 63–75.
- Kamalov, G., Zhao, W., Zhao, T., Sun, Y., Ahokas, R., et al. 2013. Atrophic cardiomyocyte signaling in hypertensive heart disease. *J Cardiovasc Pharmacol*, 62(6): 1-23.
- Kamat, S., & Roy, R. 2015. Evaluation of fish oils in amelioration of diabetes-induced tissue damage in mice (*Mus musculus*). *South Asia Journal of Experimental Biology*, 5(1): 32-40.
- Kemenkes RI. 2020. *Laporan Kinerja Kementerian Kesehatan Tahun 2020*. Kementerian Kesehatan Republik Indonesia. Jakarta, hal. 19.
- Khalid, N., & Azimpouran, M. *Necrosis*, in: StatPearls. StatPearls Publishing. Treasure Island, pp. 1-9.
- Khan, A., Khan, S., Jan, A., & Khan, M. 2017. Health complication caused by protein deficiency. *J Food Sci Nutr*, 1(1): 1-3.
- Khan, M., Rafif, M., Ramlee, S., Jusoh, M., & Al-Mamun. 2021. Bambara groundnut (*Vigna subterranea* (L.) Verdc): A crop for the new millenium, its genetic diversity, and improvements to mitigate future food and nutritional challenges. *Sustainability*, 13(5530): 1-27.
- Khotimah, D., Faizah, U., & Sayekti, T. 2021. Protein sebagai zat penyusun dalam tubuh manusia: Tinjauan sumber protein menuju sel. *Proceeding of Integrative Science Education Seminar*, 1: 127-133.
- Kumar, V., Abbas, A., Fausto, N., & Mitchell, R. 2007. *Robbins Basic Pathology 8<sup>th</sup> Edition*. Elsevier Health Sciences. Philadelphia, pp. 388-398.
- Lamb, D., Moore, J., Smith, M., Vann, C., Osburn, S., et al. 2020. The effects of resistance training with or without peanut protein supplementation on skeletal muscle and strenght adaptations in older individuals. *Journal of International Society of Sports Nutrition*, 17(66): 1-17.
- Landi, F., Calvani, R., Tosato, M., Martone, A., Ortolani, E., Saveria, G., D'Angelo, E., Sisto, A., & Marzetti, E. 2016. Protein intake and muscle health in old age: From biological plausibility to clinical evidence. *Nutrients*, 8(295): 1-12.
- Lemes, S., Lima, F., de Almeida, A., Ramalho, A., Reis, S., Michelotto, L., Amaya-Farfan, J., Carneiro, E., Boschero, A., Latorraca, M., & Veloso, R. 2014. Nutritional recovery with okara diet prevented hypercholesterolemia, hepatic steatosis and glucose intolerance. *Int J Food Sci Nutr*, pp. 1-9.
- Lim, K., Zimanyi, M., & Black, J. 2006. Effect of maternal protein restriction in rats on cardiac fibrosis and capillarization in adulthood. *Pediatric Research*, 60(1): 83-87.

- Llamas, B., Belanger, S., Picard, S., & Deschepper, C. 2007. Cardiac mass and cardiomyocyte size are governed by different genetic loci on either autosomes or chromosome Y in recombinant inbred mice. *Physiol Genomics*, 31: 176-182.
- [Lynch, C. 1969. The so-called Swiss Mouse. \*Lab Anim Care\*, 19: 214-220.](#)
- Majola, N., Gerrano, A., & Shimelis, H. 2021. Bambara groundnut (*Vigna subterranea* (L.) Verdc) production, utilisation, and genetic improvement in Sub-Sahara Africa. *Agronomy*, 11(1345): 1-16.
- Malta, A., de Oliveira, C., Ribeiro, T., Tofolo, L., Barella, L., et al. 2014. Low-protein diet in adult male rats has long-term effects on metabolism. *Endocrinology Journals*, 221(2): 285-295.
- Mendes, L., Gonzalez, S., Oliveira-Pinto, Pereira-Acacio, et al. 2017. Long-term effect of a chronic low-protein multideficient diet on the heart: Hypertension and heart failure in chronically malnourished young adult rats. *International Journal of Cardiology*, 238: 43-56.
- Mescher, A. 2016. *Junquiera's Basic Histology*, 14th ed. McGraw-Hill Education. New York. pp. 215-220.
- Mohan, H. *Textbook of Pathology 7<sup>th</sup> Edition*. Jaypee Brothers Medical Publishers. New Delhi, pp. 25-26.
- Molh, A.K., Ting, L.C., Khan, J., Al-Jashamy, Jaafar, H., & Islam, M. 2008. Histopathological studies of cardiac lesions after an acute high dose administration of methamphetamine. *Malaysian Journal of Medical Science*, 15(1): 23-30.
- Mubaiwa, J., Fogliano, V., Chidewe, C., & Linnemann, A. 2018. Bambara groundnut (*Vigna subterranea* (L.) Verdc.) flour: A functional ingredient to favour the use of an unexploited sustainable protein source. *PLoS ONE*, 13(10):1-9.
- Murca, T., Magno, T., De Maria, M., Capurro, C., Chianca, D., & Ferreira, A. 2012. Cardiac responses of rats submitted to postnatal protein restriction. *Appl. Physiol. Nutr. Metab.*, 37: 1-9.
- Mutiarahmi, C., Hartady, T., & Lesmana, R. 2021. Kajian pustaka: Penggunaan mencit sebagai hewan coba di laboratorium yang mengacu pada prinsip kesejahteraan hewan. *Indonesia Medicus Veterinus*, 10(1): 134-145.
- National Research Council. 1995. *Nutrient Requirements of Laboratory Animals*, 4<sup>th</sup> Edition. National Academies Press. Washington DC.
- Nugraheni, K., & Saputri, F. 2017. The effect of secang extract (*Caesalpinia sappan* Linn.) on the weight and histology appearance of white male rats hearts induced by isoproterenol. *International Journal of Applied Pharmaceutics*, 9(1): 59-61.
- Okafor, J., Jideani, V., Meyer, M., & Roes-Hill, M. 2022. Bioactive components in bambara groundnut (*Vigna subterranea* (L.) Verdc.) as a potential source of nutraceutical ingredients. *Hellyon*, 8: 1-11.
- Oktiansyah, R. 2019. Behavior of male mice (*Mus musculus*) in laboratory. *Jurnal Biota*, 5(2): 80-88.
- Papadimitriou, D., Xanthos, T., Dontas, I., Lelovas, P., & Perrea, D. 2008. The use of mice and rats as animal models for cardiopulmonary resuscitation research. *Laboratory Animals*, 42: 265-276.



- Paterek, A., Okninska, M., Maczewski, M., & Mackiewicz, U. 2022. Right ventricle remodelling in left-sided heart failure: The role of calcium signalling. *Biomolecules*, 12(1714): 1-15.
- Penitente, A., Novaes, R., Silva, M., Silva, M., Guatimosim, S., Cruz, J., Natali, A., Neves, C., Chianca-Jr, D., & Quintao-Junior, J. 2014. Basal and  $\beta$ -adrenergic cardiomyocytes contractility dysfunction induced by dietary protein restriction is associated with downregulation of SERCA2a expression and disturbance of endoplasmic reticulum  $\text{Ca}^{2+}$  regulation in rats. *Cellular Physiology and Biochemistry*, 34: 443-454.
- Phifer-Rixey, M., & Nachman, M. 2015. Insights into mammalian biology from the wild house mouse *Mus musculus*. *eLIFE*, pp. 1-15.
- Prabhu, S., Frangogiannis, N. 2016. The biological basis for cardiac repair after myocardial infarction: From inflammation to fibrosis. *Circ Res*, 119(1): 91-112.
- Prachansuwan, A., Kriengsinyos, W., Judprasong, K., Kovitvadhi, A., & Chundang, P. 2019. Effect of different pre-boiling treatment on in vitro protein and amino acid digestibility of mung beans (*Vigna radiata* (L.) wilczek). *Mal J Nutr*, 25(3): 361-375.
- Priyanto, U., & Redjeki, E. 2020. Selection of bambara groundnut (*Vigna Subterranea* (L.) Verdcourt) origin of sukabumi based on testa color to the yield componen in Gresik field. *Jurnal Tropicrops*, 3(2): 2615-7012.
- Ray, P.D., & Fry, R.C. 2015. *System Biology in Toxicology and Environmental Health*. Elsevier Science Publishing Co.Inc. San Diego, pp. 11-42.
- Saheera, S., & Krishnamurthy, P. 2020. Cardiovascular changes associated with hypertensive heart disease and aging. *Cell Transplantation*, 29: 1-10.
- Sartori, R., Romanello, V., & Sandri, M. 2021. Mechanisms of muscle atrophy and hypertrophy: Implications in health and disease. *Nature Communications*, pp. 1-12.
- Savolainen, S., Foley, J., & Elmore, S. 2009. Histology atlas of the developing mouse heart with emphasis E11.5 to E18.5. *Toxicol Pathol*, 37(4): 395-414.
- Sayed, A., Mekki, I., Mahmoud, U., & Naguib, M. 2020. Histopathological and histochemical effects of silver nanoparticles on the gills and muscles of African catfish (*Clarias farias*). *Scientific African*, pp. 1-12.
- Semba, R. 2016. The rise and fall of protein malnutrition in global health. *Ann Nutr Metab*, 69(2): 79-88.
- Sexton, C., Smith, M., Smith, K., Osburn, S., Godwin, J., et al. 2021. Effects of peanut protein supplementation on resistance training adaptations in younger adults. *Nutrients*, 13(3981): 1-19.
- Smajovic, A., Katica, M., Završnik, D., Veljovic, E., Seho-Alic, A., Supic, J., Camo, D., Celebicic, M., & Skrbic, S. 2020. Toxicity testing of newly synthesized xanthene-3-ones after parenteral application: An experimental study in rats (*Rattus norvegicus*). *Veterinaria*, 69(3): 205-212.
- Spaich, S., Katus, H., & Backs, J. 2015. Ongoing controversies surrounding cardiac remodeling: Is it black and white – or rather fifty shades of gray. *Frontiers in Physiology*, 6(202): 1-15.
- SSGI. 2021. *Hasil Studi Status Gizi Indonesia (SSGI) Tingkat Nasional, Provinsi, dan Kabupaten/Kota Tahun 2021*. Kementerian Kesehatan Republik Indonesia. Jakarta.

- Stanier, M. 1957. *Effect of Protein Deficiency and Subsequent Refeeding on Body Composition of Adult Rats*. Cambridge University Press.
- [Storer, J. 1966. Longevity and gross pathology at death in 22 inbred strains of mice. \*J Gerontol\*, 21: 404-409.](#)
- Switkowski, K., Jacques, P., Must, A., Kleinman, K., Gillman, M., & Oken, E. 2016. Maternal protein intake during pregnancy and linear growth in the offspring. *Am J Clin Nutr*, 104:1128-1136.
- Talman, V., & Ruskoaho, H. 2016. Cardiac fibrosis in myocardial infarction – from repair and remodelling to regeneration. *Cell Tissue Res*, 365: 563-581.
- Tan, X., Azam-Ali, S., Von Goh, E., Mustafa, M., Chai, H., Ho, W., Mayes, S., Mabhaudi, T., Azam-Ali, S., & Massawe. 2020. Bambara groundnut: An underutilized leguminous crop for global food security and nutrition. *Frontiers in Nutrition*, 7(601496): 1-16.
- Tavernarakis, N. 2007. Cardiomyocyte necrosis: alternative mechanisms, effective interventions. *Biochimica et Biophysica Acta*, 1773: 480-482.
- Teymoori, F., Ashgari, G., Mirmiran, P., & Azizi, F. 2017. Dietary amino acid and incidence of hypertension: A principle component analysis approach. *Scientific Reports*, 7(16838): 1-9.
- Torreggiani, M., Fois, A., D'Alessandro, C., Colucci, M., Guillen, A., Cupisti, A., & Piccoli, G. 2020. Of mice and men: The effect of maternal protein restriction on offspring's kidney health. Are studies on rodents applicable to chronic kidney disease patients? A narrative review. *Nutrients*, 12(1614): 1-20.
- Tousen, Y., Umeki, M., Nakashima, Y., Ishmi, Y., & Ikegami, S. 2006. Effects of genistein, an isoflavone, on pregnancy outcome and organ weights of pregnant and lactating rats and development of their suckling pups. *J Nutr Sci Vitaminol*, 52: 174-182.
- Van Sligtenhorst, I., Ding, Z., Shi, Z., Read, W., Hnasen, G., & Vogel, P. 2012. Cardiomyopathy in a-Kinase 3 (ALPK3)-deficient mice. *Veterinary Pathology*, 49(1): 131-141.
- Vinhas, M., Araujo, A., Riberio, S., Rosario, L., & Belo, J. 2013. Transthoracic echocardiography reference values in juvenile and adult 129/Sv mice. *Cardiovascular Ultrasound*, 11(12): 1-10.
- Walrand, S., Zangarelli, A., Guillet, C., Salles, J., Soulier, K., Giraudet, C., Patrac, V., & Boirie, Y. 2011. Effect of fast dietary proteins on muscle protein synthesis rate and muscle strength in ad libitum-fed and energy-restricted old rats. *British Journal of Nutrition*, 106: 1683-1690.
- Watford, M., & Wu, G. 2018. Protein. *American Society for Nutrition*, 9: 651-653.
- Yao, D., Kouassi, K., Erba, D., Scazzina, F., Pellegrini, N., & Casiraghi, M. 2015. Nutritive evaluation of the bambara groundnut Ci12 landrace (*Vigna subterranea* (L.) Verdc. (*Fabaceae*)) produce in Cote d'Ivoire. *Int. J. Mol. Sci*, 16: 21428-21441.
- Yu, Q., Morales, M., Li, N., Fritz, A., Ruobing, R., Blaeser, A., Francois, E., Lu, Q., Nagaraju, K., & Spurney, C. 2018. Skeletal, cardiac, and respiratory muscle function and histopathology in the P448Lneo – mouse model of FKRP-deficient muscular dystrophy. *Skeletal Muscle*, 8(13): 1-16.
- Yuan, C., Sharma, & Previs, S. 2008. Preserved protein synthesis in the heart in response to acute fasting and chronic food restriction despite reductions in liver and skeletal muscle. *Am J Physiol Endocrinol Metab*, 295(1):216-222.

- Zachary, J., & McGavin, M. 2012. *Pathologic Basic of Veterinary Disease 5<sup>th</sup> Edition*. Elsevier. Missouri, pp. 551-556.
- Zahir, M., Fogliano, V., & Capuano, E. 2018. Food matrix and processing modulate in vitro protein digestibility in soybeans. *Food Funct*, 9(6326): 1-12.
- Zhang, S., Heng, J., Song, H., Zhang, Y., Lin, X., Tian, M., Chen, F., & Guan, W. 2019. Role of maternal dietary protein and amino acids on fetal programming, early neonatal development, and lactation in swine. *MDPI*, 9(19): 1-14.
- Zhao, W., Zhao, T., Chen, Y., Zhao, Y., Gu, Q., Williams, R., Bhattacharya, S., & Sun, Y. 2015. A murine hypertrophic cardiomyopathy model: The DBA/2J strain. *PLOS ONE*, 10(8): 1-13.