

## DAFTAR PUSTAKA

- Abdullah, H., Y.W. Ho and S. Jalaludin. 1990. Role of Rumen Microbes in The Breakdown of Agricultural by Products. Proceeding of Workshop on Research Methodologies. 115 – 125.
- Akin, D.E. and R. Benner. 1998. Degradation of Polysaccharides and Lignin by Ruminasi Bacteria and Fungi. Appl. Environ. Microbial. 54 (5) : 1117 – 1125.
- Anggorodi, R. 1990. Ilmu Makanan Temak. PT Gramedia. Jakarta.
- Anonimus, 1982. Laporan Survei. Inventarisasi Limbah Pertanian. Dir. Bin. Produksi, Dirjen Peternakan. Dep. Pertanian dan Fak. Peternakan UGM.
- Arora, S.P., 1989. Pencemaran Mikrobial Pada Ruminansia. Gadjah Mada University Press. Yogyakarta.
- Astuti, M. 1980. Rancangan Percobaan dan Analisis Statistik I. Fakultas Peternakan UGM. Yogyakarta.
- Atlas, M.R. and R. Bartha. 1987. Microbial Ecology: Fundamental and Applications. 2<sup>nd</sup> edition. Wasley Publishing Company Inc. menlo Park. California.
- Bachruddin, Z., Widyantoro, L.M. Yusiati, R. Utomo, dan W. Asmara. 1996. Manipulasi Mikrobial Rumen Kerbau dan Aplikasinya pada Peningkatan Kualitas dan Kuantitas Produksi Temak Ruminansia dalam Pemanfaatan Pakan Serat. Laporan Penelitian Hibah Bersaing II/3 Perguman Tinggi.
- Baldwin ,R.L. and M.J. Allison. 1983. Rumen metabolism. J. Anim. Sci. Vol. 57 : 461 – 477.
- Bogdan, A.V. 1977. Tropical Pasture and Fooder Plant. Longman Groups, Inc. New York.
- Cahyono, E.W. 1994. Pengaruh pakan serat kasar dari jerami padi terhadap karakteristik biokimia cairan rumen temak ruminansia. Tesis Program Pasca Sarjana UGM. Yogyakarta.
- Chahal, D.S. and R.D. Overand. 1982. Ethanol fuel from biomass. In: Advances in Agricultural Microbiology. Edited by Subba Rao. Butterworth Scientific. London.

- Church, D.C. 1988. *The Ruminant Animal Digestive Physiology and Nutrition*. Prentice Hall. Englewood Cliffs. New Jersey.
- Church, D.C. and W.G. Pond. 1982. *Basic Animal Nutrition and Feeding*. 2<sup>nd</sup> edition. John Wiley and Sons. New York.
- Chuzaemi, S. 1994. *Potensi jerami padi sebagai pakan temak ditinjau dari kinetika degradasi dan retensi jerami padi didalam aimen*. Disertasi S-3. Universitas GadjahMada. Yogyakarta.
- Crowder, L.V. and H.R. Chheda. 1982. *Tropical Grassland Husbandry*. First Published, United State of America, by Longman Inc. New York.
- Crueger, W. and A. Crueger. 1989. *Biotechnology : A Text book of Industrial Microbiology*. 2<sup>nd</sup> edition. Thomas D. Brock. (ed.). Sinaeur Associated Inc. Sunderland.
- Cullison, A.E. 1979. *Feed and Feeding*. 2<sup>nd</sup> edition. Reston Publishing Company, Inc., A Prentice Hall Company, Reston, Virginia. 22090.
- Davies, H.L., 1982. *Microbiology of the gut*. In : *Nutrition and Growth Manual*. AUIDP, AAUCS, Australia.
- Dixon,R.M., 1985. *Inceasing digestible energy intake of ruminant given fibrous diet using concentrat supplement*. In : *Ruminant Feeding Utilizing Fibrous Agriculture Residues*. R.M. Dixon ed. The Australian Development Assisteance, Bureau, Canberra.
- Dwidjoseputro,D. 1990. *Dasar-dasar Mikrobiologi*. Djambatan. Jakarta
- Enari, T.M. 1983. *Microbial cellulose*. In: *Microbial Enzymatic and Biotechnology*. W.M. Fogorty ed. Applied Science Publisher. London.
- Fonty, G. 1991. *The rumen anaerobik fungi*. In : *Rumen Microbial and Ruminant Digestion*. J.P. Jouany (ed.) INRA. Paris.
- Forano,E. *Recent Progress in genetic manipulation of rumen microbes*. In: J.P. Jouany (Ed.) *Rumen Microbial Metabolism and Ruminant Digestion*. INRA Editions. Paris :89 – 103.
- Frost, G.M. and D.A. Moss. 1987. *Production of Enzymes by Fermentation*. In J. F Kennedy (Ed.), *Biotechnology*. Vol. 7A. John and E. Sturge Limited, Selby. Horth. Yorkshire. England.

- Gordon, G.L.R. and W.M. Phillips. 1989. Degradation and utilization of cellulosa and straw by three different anarobic fungi from the bovine rumen. *J. Appl. Env. Microbiol.* 55(7) : 1703 – 1710.
- Gupte, S.M.D. 1990. Mikrobiologi Dasar. Binarupa Aksara. Jakarta.
- Hardjo, S. N., S. Indrastuti dan T. Bantacut. 1989. Biokonversi Pemanfaatan Limbah Industri Pertanian. PAU Pangan dan Gizi. IPB Bogor.
- Hartadi, H., S. Reksohadiprodjo, S. Lebdosukodjo, A.D. Tillman, L.C. Kearl dan L.E. Harris. 1980. Tabel-tabel dari Komposisi Bahan Makanan Temak untuk Indonesia. *The International Feedstuffs*. Institut Utah Agric. Exp. Sta. Utah State Univ. Logan.
- Hartiko, H. 1992. Pedoman Kuliah Biologi Mikroorganisme Termofilik. PAU Bioteknologi UGM. Yogyakarta.
- Hume, I.D. 1982. Digestion and protein metabolisme. In: H.L. Davies (Ed), *A Course Manual in Nutrition and Growth Manual*. AUIDP. Hedges and Bell Pty Ltd. Melaboume.
- Jouany, J.P. 1991. *Rumen Microbial Metabolism and Ruminant Digestion*. INRA. Paris.
- Jutono, J. Soedarsono, S. Hartadi, S. Kabirun, Suhadi, dan Susanto. 1980. *Pedoman Praktikum Mikrobiologi Umum*. Fakultas Pertanian Universitas Gadjah Mada. Yogyakarta.
- Komar, A. 1984. *Teknologi Pengolahan Jerami Sebagai Makanan Temak*. Yayasan Dian Grahita Indonesia. Bandung.
- Komisarczuk – Bony, S. dan M. Durand. 1991. Effect of mineral on microbial metabolism in J. *Rumen Microbial Metabolism and Ruminant Digestion*. Ed. J.P. Jouany. INRA Paris, pp. 179 – 194.
- Kumiawati, R. 1997. Pengaruh penambahan isolat campuran selulotik unggul pada cairan rumen sapi terhadap aktivitas enzim selulose dan produksi asam lemak volatil secara *in vitro*. Skripsi Fak. Peternakan Universitas Gadjah Mada. Yogyakarta.
- Kussow, W.R. 1971. *Introduction to Soil Chemistry*. Soil Fertility Project. Dept. Ilmu-Tanah. IPB. Bogor.
- Kustantinah, Z. Bachrudin dan H. Hartadi. 1993. Evaluasi Pakan Berserat. Forum Komunikasi Hasil Penelitian Bidang Peternakan. Yogyakarta, 22 – 25 November 1993.

- Kustantinah, Z. Bachrudin dan H. Hartadi. 1993. Evaluasi Pakan Berserat. Forum Komunikasi Hasil Penelitian Bidang Peternakan. Yogyakarta, 22 – 25 November 1993.
- Kuswandi. 1989. Kemajuan-kemajuan penelitian untuk penggemukan ternak ruminansia di Indonesia selama Pelita IV. J. Litbang Pertanian.
- Kuswandi. 1993. Kegiatan mikrobia di rumen dan manipulasinya untuk menaikkan efisiensi produksi ternak. Bulletin Peternakan Fak. Peternakan UGM. Yogyakarta. 17 : 72 – 75.
- Lamid, M. 1999. Parameter fermentasi rumen dan sintesis protein mikrobia pada sapi peranakan ongole yang diberi pakan tunggal jerami padi amoniasi, jerami kedelai atau jerami padi. Tesis. Program Pasca Sarjana UGM. Yogyakarta.
- Leng, R.A. 1973. Salient features of digestion of pastures by ruminant and other herbivores. In : Chemistry and Biochemistry of Herbage. Academic Press. London and New York.
- Leng, R.A. 1980. Principle and Practice of feeding Tropical Crop and by Products to Ruminant. Departement of Biochemistry and Nutrition. University of New England. Armidale. Australia.
- Leng, R.A. and T.R. Preston. 1985. Constraints to the efficient utilization of sugar cane and its by product as diets for production of large ruminant. In : Ruminant Fibrous Agriculture Residues. International Development Program of Australia and College Ltd. Canberra.
- Lowe, S.E., M.K. Theodorou and A.P.J. Trinci. 1987. Growth and fermentation of anaerobic rumen fungus on various carbon source and effect of temperature on development. J. Appl. Env. Microbiol. 53 : 1210 – 1215.
- Lynch, J.M. and J.E. Habibie. 1988. Microorganism. In : Action Concepts and Application in Microbial Ecology. Black Well Scientific Publication. London.
- McDonald, P., R.A. Edwards and J.F.D. Grenhalgh. 1982. Animal Nutrition. 2<sup>nd</sup> edition. Longman. London.
- McDonald, P., R.A. Edwards and I.F.D. Grenhalgh. 1988. Animal Nutrition. 3<sup>rd</sup> edition. Longman. London.

- Michalet-Doreau, B. and M. Y. Ould Bach. 1992. *In vitro* and *in sacco* methods for estimation of dietary nitrogen degradability in rumen : A Review Anim. Science Technol. 40 : 57 – 86.
- Muchtadi, D. dan B.S. Laksmi. 1980. Petunjuk Praktek Mikrobiologi Hasil Pertanian 2. Direktorat Pendidikan Menengah Kejuruan. Yogyakarta.
- Mutammimah, S. 1998. Studi kultur campuran mikrobial selulolitik rumen kerbau isolat mumi terseleksi. Skripsi. Fakultas Peternakan UGM. Yogyakarta.
- Nester, E.W., C.E. Robert, M.E. Lidstorm, N. Pearsall and M.T. Nester. 1983. Microbiology. 3<sup>rd</sup> edition. Saunders Coolege Publishing. Philadelphia.
- Nevel, T.P. and S.H. Zeronian. 1985. Cellulose chemistry fundamentals. In : Cellulose Chemistry and Its Application. John Wiley and Sons. New York.
- Orphin, C. G. 1977. The Occurrence of chitin in the cell walls of the rumen organism *Neocallimash frontalis*, *Piromonas communis* and *Sphaeromonas communis*. J. Gen. Microbial. 99 : 215 –218.
- Orskov, E.R., and I. Me Donald. 1979. The Estimation of Protein Degradability in The Rumen from Incubation Measurement Weighted According The Rate Passage. J. Agric. Sci. 92: Hal. 499 – 503.
- Orskov, E.R. and M. Ryle. 1990. Energy Nutrition in Ruminant. Elsevier Applied. Science. London.
- Page, D.S. 1985. Prinsip-prinsip Biokimia. Tejemahan oleh R. Soendoro. Erlangga. Jakarta.
- Parwoto, Y. 1998. Pengaruh inokulasi isolat selulolitik campuran pada rumen kerbau berfistula terhadap kadar NH<sub>3</sub>, pH, asam lemak volatil dan protein mikrobial. Skripsi. Fakultas Peternakan UGM. Yogyakarta.
- Peppier, H.J. 1983. Fermented feed and feeds suplement. In : Biotechnology Volume 5.6. Reed. Ed. Verlag Chemie. Weinheim Deerfield Beach. Florida. Basel.
- Perry T. W. 1984. Animal Life Cycle Feeding and Nutrition. Academic Press, Inc. Orlando, San Deigo, San Fransisco, New York, London, Toronto, Montreal, Sydney, Tokyo, Sao Paulo.

- Radjagukguk, B. 1983. Masalah pengapuran tanah di Indonesia. Buletin 18: 15 – 43. Fak. Pertanian Universitas Gadjah Mada. Yogyakarta.
- Rahayu, K. 1989. Enzim Mikrobia. Bahan Ajaran Pusat Antar Universitas Pangan dan Gizi . UGM. Yogyakarta.
- Ranjhan, S.K. and N.N. Pathak. 1979. Management and Feeding of Buffaloes. Vikas Publisher House. New Delhi.
- Schneider, B.H. and W.P. Flatt. 1975. The Evaluation of Feed Through Digestibility Experiments. The University Georgia Press. Athens.
- Shuller, M.C. 1980. Utilization and Recycle of Agricultural Waste and Residues. G.R.C. Press Inc. Boca Raton. Florida.
- Slamet, W. 1995. Pengaruh lama pemeraman dan aras isi rumen terhadap kualitas jerami padi dan pucuk tebu. Tesis Program Pasca Sarjana UGM. Yogyakarta.
- Soejono, M. 1983. Penanganan limbah pertanian sebagai pakan temak. Laporan Pelaksanaan Latihan Hijauan Makanan Temak. Forage, Seed and Forage Development. Fak. Peternakan UGM. Yogyakarta.
- Soedjono, M. 1992. Aplikasi bioteknologi di bidang pakan dan nutrisi temak. Buletin Peternakan Edisi Khusus. Hal. 74 – 79.
- Soewardi, B. 1975. Gizi Ruminansia. Departemen Ilmu Makanan Temak, Fak. Peternakan IPB. Bogor.
- Stanbury, P.F. and A. Whitaker. 1984. Principles of Fermentation Technology. Pergamon Press. New York.
- Sudaryanto, B. 1992. Peranan protozoa dalam pencernaan selulosa. Buletin Peternakan Edisi Khusus: 218 – 220. Fak. Peternakan UGM. Yogyakarta.
- Susila, T.G.O. 1994. Evaluasi jerami padi Amoniasi urea sebagai pakan serat untuk sapi perah laktasi. Tesis Program Pasca Sarjana UGM. Yogyakarta.
- Tilley, J.M.A. and R.A. Terry. 1963. A two stage technique for the *in vitro* digestion of forage crops. J. British Grassland. Soc. 104 – 111.
- Tillman, A.D., 1986. Ilmu Makanan Temak Ruminansia. Fakultas Peternakan UGM. Yogyakarta.

- Tilley, J.M.A. and R.A. Terry. 1963. A two stage technique for the *in vitro* digestion of forage crops. J. British Grassland. Soc. 104 – 111.
- Tillman, A.D., 1986. Ilmu Makanan Temak Ruminansia. Fakultas Peternakan UGM. Yogyakarta.
- Tillman, A.D., H. Hartadi, S. Reksohadiprodjo, S. Prawirokusumo, dan S. Lebdoesoekojo. 1991. Ilmu Makanan Temak dasar. Gadjah Mada University Press. Yogyakarta.
- Van Nevel, C.J. 1991. Modification of rumen fermentation by the use of additives. In: Rumen Microbial Metabolism and Ruminant Digestion. Ed : J.P. Jouany. INRA. Paris. pp: 263 –280.
- Van Soest, P.J. 1982. Nutritional Ecology of The Ruminant. 2<sup>nd</sup> Edition. Cornell University Press. Ithaca and London.
- Volk, W.A. and M. F. Wheeler. 1988. Mikrobiologi Dasar. Edisi ke – 25, jilid I editor: S. Adi Soemarto. Erlangga. Jakarta.
- Windham, W.R. and D.E Akin. 1984. Rumen fungi in forage fiber degradation. J. Appl. Environ Microbiol. 48 (3) : 473 – 476.
- Wiyono, D.B., B. Sarjono, Haryono, dan D. Wibowo. 1983. Prinsip-prinsip Teknologi Fermentasi. PAU Pangan dan Gizi. Universitas Gadjah Mada. Yogyakarta.
- Winugraha, M., Y. Widiawati, P. Pinurbowo, L. Budi M.S, A. Tholib dan M. Sabrani, 1993. Peningkatan Aktivitas Fermentasi Mikrobial Rumen dan Perbaikan Bobot Badan Domba Melalui Pengontrolan Populasi Protozoa dengan Klerak (*Sapindus rorak*). BPT Ciawi. Bogor.
- Yokohama, M.T. and K.A. Johnson. 1988. Microbiology of The Rumen and Testine. In: D.C. Church (Ed.), The Ruminant Animal Digestive Physiology and Nutrition. Prentice Hall. New jersey, pp: 125 – 144.