

DAFTAR PUSTAKA

- Agarwal, A, Virk, G, Ong, C, DuPlessis, SS 2014 'Effect of Oxidative Stress on Male Reproduction', *The World Journal of Men's Health*, 32(1), p. 1. Diakses tanggal 2 Desember 2019
<https://doi.org/10.5534/wjmh.2014.32.1.1>.
- Aggerholm, A, Thulstrup, A, Toft, G, Ramlau, HC, Bonde, J 2008, 'Is overweight a risk factor for reduced semen quality and altered serum sex hormone profile?', *Fertility and Sterility*, Vol.90, No.3, September 2008, hlm. 619-626, diakses tanggal 20 April 2019
<https://doi.org/10.1016/j.fertnstert.2007.07.1292>.
- Akmal, M & Masyitah, D 2016 'Epididimis dan perannya pada pematangan spermatozoa', *Jurnal Edukasi dan Sains Biologi*, Vol.4, No.2, November 2015, diakses tanggal 21 April 2019
<https://www.researchgate.net/publication/291229703>
- Arts, JWM, Kramer, K, Arndt, SS & Frauke, O 2012 'The impact of transportation on physiological and behavioral parameters in wistar rats: implications for acclimatization periods', *ILAR Journal*, diakses tanggal 20 April 2019
<https://doi.org/10.1093/ilar.53.1.82>.
- Athoillah, MF, Umie, L, Sri, RL 2015 *Peningkatan efisiensi leptin pada lemak viseral tikus obesitas rattus norvegicus dengan menggunakan ekstrak kulit buah rambutan nephelium lappaceum*, Skripsi Program Sarjana, Jurusan Biologi, Fakultas MIPA, Universitas Negeri Malang, diakses tanggal 28 April 2019
<https://www.semanticscholar.org/paper/Peningkatan-Efisiensi-Leptin-Pada-Lemak-Viseral-L.-Atho%27illah/9e7757d6777070b22bf85d74de2fd2445bd9f85>
- Badan Penelitian dan Pengembangan Kesehatan, Riset Kesehatan Dasar (RISKESDAS) 2018, Laporan Nasional 2018. Diakses dari <https://www.depkes.go.id/resources/download/info-terkini/hasil-riskesdas-2018.pdf>
- Caldas, MEH 2019, *Uji efektivitas ekstrak daun binahong (Anredera cordifolia ten steenis) terhadap jumlah makrofag dan limfosit pada luka infeksi tikus wistar jantan*, Skripsi Program Sarjana, Universitas Katolik Widya Mandala Surabaya, diakses tanggal 3 Mei 2019
<http://repository.wima.ac.id/18979/2/BAB%20I.pdf>
- Campos, KE, Volpato, GT, Calderon, IMP, Rudge, MVC, Damasceno, DC *et al* 2008 'Effect of obesity on rat reproduction and on the development of their

- adult offspring', *Brazilian Journal of Medical and Biological Research*, 41(2), pp. 122–125, diakses tanggal 20 April 2019
<https://doi.org/10.1590/S0100-879X2008005000001>
- Chavarro, JE, Toth, TL, Wright, DL, Meeker, JD, Hauser, R 2010 'Body mass index in relation to semen quality, sperm DNA integrity, and serum reproductive hormone levels among men attending an infertility clinic', *Fertil Steril*, Vol.93, No.7, Mei 2020, diakses pada tanggal 20 April 2019
<https://doi.org/10.1016/j.fertnstert.2009.01.100>
- Dahlan, MS 2011, *Langkah-Langkah Membuat Proposal Penelitian Bidang Kedokteran dan Kesehatan, Edisi Kedua*, Sagung Seto, Jakarta.
- Dalimartha, S 2005, *Atlas Tumbuhan Obat Indonesia, Jilid Ketiga*, Puspa Swara, Jakarta.
- David, SG, Overstreet, JW, Factor, LPB, Charlene, K, Nakajima, ST, Coutifaris, Christo 2001, 'Sperm morphology, motility, and concentration in fertile and infertile men', *The New England Journal of Medicine Massachusetts Medical Society*, Vol. 345, No. 19, November 2001, pp. 1388-1393, diakses tanggal 20 April 2019
<https://doi.org/10.1056/NEJMoa003005>
- Dorland, WA, Newman 2011, *Kamus Kedokteran Dorland, Edisi 31*, Penerbit Buku Kedokteran EGC, Jakarta.
- Elder, K, Brian, Dale 2011, *In Vitro Fertilization, Third Edition*, Cambridge University Press, Cambridge.
- Ermiza, E 2013 'Pengaruh paparan suhu terhadap kualitas spermatozoa mencit jantan (*Mus, Musculus*) strain jepang', *Sainstis*, Vol.1, No.2, Januari-Juni 2012, diakses tanggal 5 Mei 2019
<https://doi.org/10.18860/sains.v0i0.2308>.
- Fitria, L, Mulyati, Tiraya, CM & Budi, AS 2015 'Profil reproduksi tikus jantan (*Rattus novergicus* berkenhout,1769) galur wistrar stadia muda, pradewasa, dan dewasa', *Jurnal Biologi Papua*, Vol.7, No.1, April 2015, Hlm. 29-36, diakses tanggal 20 April 2019
<https://www.researchgate.net/publication/321182892>
- Ganong, WF 2009, *Buku Ajar Fisiologi Kedokteran, Edisi 22*, Penerbit Buku Kedokteran EGC, Jakarta.
- Gautier, M, Foucaud, J, Gharbi, K, Cezard, T, Galan, M, Loiseau, A, Estoup, A 2013 'Estimation of population allele frequencies from next-generation sequencing data: Pool-versus individual-based genotyping', *Molecular Ecology*, 22(14), pp. 3766–3779, diakses tanggal 5 Mei 2019
<https://doi.org/10.1111/mec.12360>.

- Guyton, AC, Hall, JE 2010, *Textbook of Medical Physiology, Thirteen Edition*, Elsevier, Philadelphia
- Haviz, M, Boediono, A, Setiadi, AM, Agungpriyono, S, Fahrudin, M 2008 'Kajian aglutinasi spermatozoa melalui karakterisasi plasma yang dikoleksi dari epididimis dan seminalis domba', *Jurnal Veteriner*, 9(4), Desember 2008, pp. 176–181, diakses tanggal 20 April 2019
<https://ojs.unud.ac.id/index.php/jvet/article/view/3332>
- Hammoud, AO, Griffin, J, Meikle, AW, Gibson, M, Peterson, CM, Carrel, DT 2010 'Association of aromatase (TTTAn) repeat polymorphism length and the relationship between obesity and decreased sperm concentration', *Human Reproduction*, Vol.25, No. 12, hlm. 3146-51, diakses pada 5 Mei 2019
<https://doi.org/10.1093/humrep/deq255>.
- Haque, O, Vitale, JA, Agarwal, A, du Plessis 2014, 'The effect of smoking on male infertility', *Male Infertility*, hlm.19-30, diakses tanggal 4 Desember 2019
http://link.springer.com/10.1007/978-1-4939-1040-3_2 ?
- Hardijanto, Sardjito, T, Hernawati, T, Susilowati, S, Suprayogi, TW 2010, *Penuntun Praktikum Inseminasi Buatan*, Fakultas Kedokteran Hewan Universitas Airlangga, Surabaya
- Haryoto, M, Sujono, AJ, Suhendi, A 2015, '*Uji toksisitas akut dari ekstrak kulit buah rambutan *nephelium lappaceum* yang berpotensi akut sebagai obat herbal antidiabetes*' : Prosiding Second University Research Coloquium, Universitas Muhammadiyah Surakarta
- Hasbi, H & Gustina, S 2018 'Regulasi Androgen dalam spermatogenesis untuk meningkatkan fertilitas ternak jantan', *Wartazoa*, 28(1), Maret 2018, pp. 13–22, diakses tanggal 23 Mei 2019.
<https://doi.org/10.14334/wartazoa.v28il.1643>
- Jung, A, Schuppe, HC 2007, 'Influence of genital heat stress on semen quality in humans', *Andrologia*, Vol.39, No.6, Desember 2007, hlm. 203-15, diakses tanggal 21 April 2019
<https://doi.org/10.1111/j.1439-0272.2007.00794.x>
- Kay, VJ, Martins, DSS 2013 'Male obesity: impact on semen quality', *Obesity: A Ticking Time Bomb for Reproductive Health*, diakses tanggal 20 April 2019
<http://dx.doi.org/10.1136/jfprhc-2013-100804>
- Krinke, G 2000, *The Laboratory Rat*, Academic Press, San Diego.

- Kurdanti, W, Isti, S, Nurul, HS, Listiana, PS, Mahardika, MA, Diana, M, Kurnia, IS 2015 'Faktor-faktor yang mempengaruhi kejadian obesitas pada remaja', *Jurnal Gizi Klinik Indonesia*, Vol.11, No.4, diakses tanggal 11 Mei 2019 <https://doi.org/10.22146/ijcn.22900>. Kusumaningrum, Y 2012, *Aktivitas antibakteri ekstrak kulit rambutan nephelium lappaceum terhadap staphylococcus aureus dan escherichia coli*, Skripsi Tidak Diterbitkan, Jurusan Kimia, Fakultas Matematika dan Ilmu Pengetahuan Alam, Institut Pertanian Bogor, Bogor.
- Lestari, SR, Djati, MF, Rudijanto, A 2013 'Production and potency of local rambutan at East Java as a candidate phytopharmaca', *Agrivita*, 35(3), Oktober 2013, pp. 270–276, diakses tanggal 11 Mei 2019 <https://doi.org/10.17503/Agrivita-2013-35-3-p270-276>.
- Ling, LT, Radhakrishnan, T, Subramaniam, HM, Cheng, UD, Palanisamy 2010 'Assessment of antioxidant capacity and cytotoxicity of selected malaysian plants', *Molecules*, 15(4), pp. 2139–2151, diakses tanggal 25 April 2019 <https://doi.org/10.3390/molecules15042139>.
- Lisdiana, Yusttinus UA, Susanti, R, Retno SI, Nugrahaningsih, WH, Noor AH 2018, *Metabolit sekunder dari tanaman: aplikasi dan produksi*, Fakultas Matematika dan Ilmu Pengetahuan Alam. Universitas Negeri Semarang
- Lisdina, NWH & Widyaningrum, P 2017 'The effect of rambutan peel extract (Nephelium Lappaceum L) to total leukocytes and histopathological of rat lungs exposed by cigarette smoke', *Saintekno*, 15(2), pp. 181–192, diakses tanggal 5 Mei 2019 <https://doi.org/10.15294/saintekno.v15i2.12404>.
- Mahmudah, A, Tenzer, A, Lestari, SR 2018, 'Pengaruh ekstrak kulit buah rambutan nephelium lappaceum terhadap nekrosis sel hepar tikus rattus novergicus obesitas', *Bioeksperimen: Jurnal Penelitian Biologi*, Vol.4, No.1, Maret 2018, hlm. 48-42, diakses tanggal 21 April 2019 <https://doi.org/10.23917/bioeksperimen.v4il.5931>.
- Malole, MBM, C, Pramono 1989, *Penggunaan Hewan Percobaan Laboratorium*, Departemen Pendidikan dan Kebudayaan, Direktorat Jendral Pendidikan Tinggi Pusat Antar Universitas Bioteknologi, Insitut Pertanian Bogor, Bogor.
- Meydani, M & Hasan, ST 2010 'Dietary polyphenols and obesity', *Nutrients*, 2(7), pp. 737–751, diakses tanggal 1 Mei 2019 <https://doi.org/10.3390/nu2070737>.
- Morris, DL & Rui, L 2009 'Recent advances in understanding leptin signaling and leptin resistance', *American Journal of Physiology - Endocrinology and Metabolism*, 297(6), diakses tanggal 21 Mei 2019 <https://doi.org/10.1152/ajpendo.00274.2009>

- Muhtadi, WR, S, Haryoto, Tanti, A, Andi, Suhendi 2014 'Potensi Ekstrak Etanol Kulit Buah Rambutan (*Nephelium lappaceum*) dan Jeruk Manis (*Citrus sinensis*) sebagai Bahan Obat Herbal Antihiperurisemia' : Prosiding Simposium Penelitian Bahan Obat Alami (SPBOA) XVI & Muktamar XII Perhimpunan Peneliti Bahan Obat Alami (PERHIPBA) 2014, February 2016, pp. 542–549.
- Murray, RK, Granner, DK, Mayes, PA, Rodwell, VW 2003, *Biokimia Harper*, 25th ed, Penerbit Buku Kedokteran EGC, Jakarta.
- Palanisamy, U, Cheng, HM, Masilamani, T, Subramaniam, T, Ling, LT, Radhakrishnan, AK 2008 'Rind of the rambutan, *Nephelium lappaceum*, a potential source of natural antioxidants', *Food Chemistry*, 109(1), pp. 54–63, diakses tanggal 28 April 2019
<https://doi.org/10.1016/j.foodchem.2007.12.018>.
- Payaran, KO, Wantouw, B & Tendean, L 2014 'Pengaruh pemberian zink terhadap kualitas spermatozoa pada mencit jantan *Mus musculus*', *Journal eBiomedik*, Vol.2, No.2, Mei 2014, pp. 496–500, diakses tanggal 7 Mei 2019
<https://doi.org/10.35790/ebm.2.2.2014.5044>
- Prihatman, Kemal 2000, Tentang Budidaya Pertanian Rambutan *Nephelium lappaceum*, Kantor Deputi Menegristek Bidang Pendayagunaan dan Permasyarakatan Ilmu Pengetahuan dan Teknologi, Jakarta.
- Putri, NMK, Gunawan, I & Suarsa, I 2015 'Aktivitas Antioksidan Antosianin dalam ekstrak etanol kulit buah naga super merah (*Hylocereus costaricensis*) dan analisis kadar totalnya', *Jurnal Kimia*, 9(2), Juni 2015, pp. 243–251, diakses tanggal 6 Juni 2019
<https://ojs.unud.ac.id/index.php/jchem/article/view/16341>
- Rompis, SA, Tendean, LEN & Rumbajan, JM 2018 'Pengaruh kelebihan berat badan terhadap kualitas spermatozoa tikus wistar (*Rattus norvegicus*)', *Jurnal e-Biomedik*, Vol.6, No.1, Januari-Juli 2018, hlm.39-44, diakses tanggal 19 April 2019
<https://doi.org/10.35790/ebm.6.1.2018.18769>.
- Rowan, AN 1979 'Guide for the Care and Use of Laboratory Animals', *Journal of Medical Primatology*, diakses tanggal 19 April 2019
<https://doi.org/10.1159/000460187>.
- Russell, SH, Small, CJ, Stanley, SA, Franks, S, Ghatei, MA, Bloom, SR 2001 'The in vitro role of tumour necrosis factor-alpha and interleukin-6 in the hypothalamic-pituitary gonadal axis', *Journal of Neuroendocrinology*, 13(3), pp. 296–301, diakses tanggal 6 Juli 2019
<https://doi.org/10.1046/j.1365-2826.2001.00632.x>.

- Sakurai, T, Nishioka, H, Fuji, H, Nakano, N, Kizaki, T, Radak, Z, Izawa, T, Haga S, Ohno, H 2008 'Antioxidative effects of a new lychee fruit-derived polyphenol mixture, oligonol, converted into a low-molecular form in adipocytes', *Bioscience, Biotechnology and Biochemistry*, 72(2), pp. 463–476, diakses tanggal 7 Mei 2019
<https://doi.org/10.1271/bbb.70567>.
- Sengupta, P 2013, 'The laboratory rat: relating its age with human', *International Journal of Preventif Medicine*, Vol.4, No.6, Juni 2013, hlm. 624-630, diakses tanggal 7 Juli 2019
<https://www.ncbi.nlm.nih.gov/pubmed/23930179>
- Setiawan, B & Suhartono, E 2005, 'Stres Oksidatif dan Peran Antioksidan pada Diabetes Melitus', *Majalah Kedokteran Indonesia*, Vol.55, No.2, Februari 2005, hlm. 89-91
- Sharma, R, Biedenharn, KR, Fedor, JM, Agarwal, A 2013 'Lifestyle factors and reproductive health: Taking control of your fertility', *Reproductive Biology and Endocrinology*, 11(1), pp. 1–15, diakses tanggal 27 April 2019
<https://doi.org/10.1186/1477-7827-11-66>.
- Sherwood, L 2010, *Fisiologi Manusia dari Sel ke Sistem, Edisi Keenam*, Penerbit Bukut Kedokteran EGC, Jakarta.
- Shukla, KK, S, Chambial, S, Dwivedi, S, Misra, P, Sharma 2014 'Recent scenario of obesity and male fertility', *Andrology*, 2(6), pp. 809–818, diakses tanggal 27 April 2019
<https://doi.org/10.1111/andr.270>.
- Sirois, M 2015, *Laboratory Animal Medicine : Principles and Procedures*, Mosby Inc, United States of America.
- Stefan, N, Haring, Hu, FB, Schulze, MB 2013 'Metabolically healthy obesity: Epidemiology, mechanisms, and clinical implications', *The Lancet Diabetes and Endocrinology*, 1(2), Oktober 2013, pp. 152–162, diakses tanggal 21 April 2019
[https://doi.org/10.1016/S2213-8587\(13\)70062-7](https://doi.org/10.1016/S2213-8587(13)70062-7).
- Suckow, MA, Steven, HW, Craig, LF 2006, *The Laboratory Rat*, Academic Press, London.
- Susantiningih, T & Mustofa, S 2018 'Ekspresi IL-6 dan TNF- α Pada Obesitas', *JK Unila*, 2(2), Juli 2018, pp. 174–180, diakses tanggal 9 November 2019
<https://juke.kedokteran.unila.ac.id/index.php/JK/article/view/1956/1923>
- Tandara, M, Bajic, A, Tandara, L, Sunj, M, Jurisic, Z, Jukic, M 2013 'Correlation between proportions of sperm with DNA fragmentation assessed by Halosperm test and values of standard quality parameters of semen and

- possible impact on embryo quality’, *Zdravniski Vestnik*, 82(5), Mei 2013, pp. 298–307, diakses tanggal 7 Juli 2019
https://www.researchgate.net/publication/272353724_Correlation_between_proportions_of_sperm_with_DNA_fragmentation_assessed_by_Halosperm_test_and_values_of_standard_quality_parameters_of_semen_and_possible_impact_on_embryo_quality/link/5909b133458515ebb49742af/download
- Teerds, KJ, deRooij, DG & Keijer, J 2011 ‘Functional relationship between obesity and male reproduction: From humans to animal models’, *Human Reproduction Update*, 17(5), pp. 667–683, diakses tanggal 8 Mei 2019
<https://doi.org/10.1093/humupd/dmr017>.
- Thitilertdecha, N, Teerawutgulrag, A, Kilburn, JD, Rakariyatham, N 2010 ‘Identification of major phenolic compounds from *Nephelium lappaceum* L. and their antioxidant activities’, *Molecules*, 15(3), pp. 1453–1465, diakses tanggal 20 April 2019
<https://doi.org/10.3390/molecules15031453>.
- Tortora, GJ & Derrickson, B 2014, *Principles of Anatomy and Physiology*, 14th edition, John Wiley and Sons Inc, United States of America.
- Washington, WJ, RC, Murthy, A, Doye, K, Eugene, DB, I, Bradley 1983 ‘Induction of Morphologically Abnormal Sperm in Rats Exposed to O-Xylene’, *Archives of Andrology*, 11(3), pp. 233–237, diakses 13 Juli 2019
<https://doi.org/10.3109/01485018308987487>.
- Winarsi, H 2007, *Antioksidan Alami dan Radikal Bebas*, Kanisius, Yogyakarta.
- Windono, T, Hendrajaya, K, Nurfatmawati, H, Soraya F 2001 ‘Uji perendaman radikal bebas terhadap DPPH dari ekstrak kulit buah dan biji anggur (*Vitis liniferol*) probolinggo biru dan bali’, *Artikel hasil penelitian Artocarpus*, 1, 34-43 Fakultas Farmasi UNAIR, Surabaya
- World Health Organization 2010, *Laboratory Manual for The Examination and Processing of Human Semen, Fifth Edition*, diakses 30 Agustus 2019
https://apps.who.int/iris/bitstream/handle/10665/44261/9789241547789_eng.pdf?sequence=1
- World Health Organization 2018, *Obesity and Overweight*, diakses 20 April 2019
<https://www.who.int/topics/obesity/en/>.