

REFERENCES

- Acosta F, Ellis AE, Vivas J, Padilla D, Acosta B, et al. (2006) Complement consumption by *Photobacterium damsela* subsp. *piscicida* in seabream, red porgy and seabass normal and immune serum. Effect of the capsule on the bactericidal effect. *Fish Shellfish Immunol* 20: 709–717.
- Alenezi, Faizah & Rekik, Imen & Beřka, Marta & F. Ibrahim, Abrar & Luptakova, Lenka & Jaspars, Marcel & Woodward, Steve & Lassaad, Belbahri. (2015) Strain-level diversity of secondary metabolism in the biocontrol species *Aneurinibacillus migulanus*. *Microbiological Research*. 182. 10.1016/j.micres.2015.10.007.
- Ali, G. S., El-Sayed, A. S., Patel, J. S., Green, K. B., Ali, M., Brennan, M., & Norman, D. (2016). Ex Vivo Application of Secreted Metabolites Produced by Soil-Inhabiting *Bacillus* spp. Efficiently Controls Foliar Diseases Caused by *Alternaria* spp. *Applied and environmental microbiology*, 82(2), 478-90. doi:10.1128/AEM.02662-15
- Alonso, C. A., Kwabugge, Y. A., Anyanwu, M. U., Torres, C., & Chah, K. F. (2017). Diversity of *Ochrobactrum* species in food animals, antibiotic resistance phenotypes and polymorphisms in the blaOCH gene. *FEMS Microbiology Letters*, 364(17).doi:10.1093/femsle/fnx178
- Apisarnthanarak, A., Kiratisin, P., & Mundy, L. M. (2005). Evaluation of *Ochrobactrum* intermedium bacteremia in a patient with bladder cancer. *Diagnostic Microbiology and Infectious Disease*, 53(2), 153–155.doi:10.1016/j.diagmicrobio.2005.05.014
- Aziz MF. (2009). Gynecological cancer in Indonesia. *J Gynecol Oncol*; 20: 8-10.
- Barun & Stauffer, Larry & Koylass, Mark & Sharp, Susan & Gee, Jay & O Helsel, Leta & G Steigerwalt, Arnold & Vega, Robert & A Clark, Thomas & I Daneshvar, Maryam & Wilkins, Patricia & M Whatmore, Adrian. (2008). Novel *Brucella* Strain (BO1) Associated with a Prosthetic Breast Implant Infection. *Journal of clinical microbiology*. 46. 43-9. 10.1128/JCM.01494-07.
- Barquero-Calvo, E., Conde-Alvarez, R., Chacón-Díaz, C., Quesada-Lobo, L., Martirosyan, A., Guzmán-Verri, C., ... Chaves-Olarte, E. (2009). The Differential Interaction of *Brucella* and *Ochrobactrum* with Innate Immunity Reveals Traits Related to the Evolution of Stealthy Pathogens. *PLoS ONE*, 4(6), e5893.doi:10.1371/journal.pone.0005893
- Berditsch, M., Afonin, S., & Ulrich, A. S. (2007). The ability of *Aneurinibacillus migulanus* (*Bacillus brevis*) to produce the antibiotic gramicidin S is correlated with phenotype variation. *Applied and environmental microbiology*, 73(20), 6620-8.
- Bensaude O. (2011). Inhibiting eukaryotic transcription: Which compound to choose? How to evaluate its activity?. *Transcription*, 2(3), 103–108. doi:10.4161/trns.2.3.16172
- Bhardwaj, G., & Webster, T. J. (2015). Increased NIH 3T3 fibroblast functions on cell culture dishes which mimic the nanometer fibers of natural tissues. *International journal of nanomedicine*, 10, 5293–5299. doi:10.2147/IJN.S83007
- Bidon B, Iltis I, Semer M, Nagy Z, Larnicol A, et. al.(2012) NATURE. DOI : 10.1038/s41467-018-05010-0)
- Bouchlaka, M.N. et al. (2017). Human Mesenchymal Stem Cell-Educated Macrophages Are a Distinct High IL-6-Producing Subset that Confer Protection in Graft-versus-Host-Disease and Radiation Injury Models. *Biol Blood Marrow Transplant*. pii: S1083-8791(17)30306-3. doi: 10.1016/j.bbmt.2017.02.018
- Bustillo, S, Lucero, H, Leiva, LC, Acosta, O, Kier Joffé, EB, & Gorodner, JO. (2009). Cytotoxicity and morphological analysis of cell death induced by Bothrops venoms from the northeast of Argentina. *Journal of Venomous Animals and Toxins including Tropical Diseases*, 15(1), 28-42. <https://dx.doi.org/10.1590/S1678-91992009000100004>

- Calvo C, Silva-Castro GA, Uad I, Garcí'a Fandino C, Laguna J, et al. (2008) Efficiency of the EPS emulsifier produced by *Ochrobactrum anthropi* in different hydrocarbon bioremediation assays. *J Ind Microbiol Biotechnol*.
- Chakraborty, S., & Rahman, T. (2012). The difficulties in cancer treatment. *Ecancermedicalscience*, 6, ed16. doi:10.3332/ecancer.2012.ed16
- Cieslak TJ, Drabick CJ, Robb ML. (1996) Pyogenic infections due to *Ochrobactrum anthropi*. *Clin Infectious Disease*;22:845-7.
- Clair, G., Roussi, S., Armengaud, J., & Duport, C. (2010). Expanding the known repertoire of virulence factors produced by *Bacillus cereus* through early secretome profiling in three redox conditions. *Molecular & cellular proteomics : MCP*, 9(7), 1486-98.
- Clais, S., Boulet, G., Van kerckhoven M., Lanckacker, E., Delputte, P., Maes, L., & Cos, P. (2014). Comparison of viable plate count, turbidity measurement and real-time PCR for quantification of *Porphyrromonas gingivalis*. *Letters in Applied Microbiology*, 60(1), 79–84. doi:10.1111/lam.12341
- David JM, Owens TA, Barwe SP, Rajasekaran AK (2013). Gramicidin A induces metabolic dysfunction and energy depletion leading to cell death in renal cell carcinoma cells. *Molecular Cancer Therapy*;12: 2296–307.
- Desriac, F., Jégou, C., Balnois, E., Brillet, B., Le Chevalier, P., & Fleury, Y. (2013). Antimicrobial peptides from marine proteobacteria. *Marine drugs*, 11(10), 3632-60. doi:10.3390/md11103632
- DeLeve, L. D. (2013). *Cancer Chemotherapy. Drug-Induced Liver Disease*, 541–567. doi:10.1016/b978-0-12-387817-5.00030-3
- Demain, A. L., & Vaishnav, P. (2011). Natural products for cancer chemotherapy. *Microbial biotechnology*, 4(6), 687–699. doi:10.1111/j.1751-7915.2010.00221.x
- Dobson, J. M., Hohenhaus, A. E., & Peaston, A. E. (2008). *Cancer chemotherapy. Small Animal Clinical Pharmacology*, 330–366. doi:10.1016/b978-070202858-8.50017-8
- Favia G, Mariggio MA, Maiorano E, Cassano A, Capodiferro S, Ribatti D. (2008) Accelerated wound healing of oral soft tissues and angiogenic effect induced by a pool of amino acids combined to sodium hyaluronate (AMINO GAM). *J Biol Regul Homeost Agents*; 22:109-16.
- Fornari FA, Randolph JK, Yalowich JC, Ritke MK, Gewirtz DA. Interference by doxorubicin with DNA unwinding in MCF-7 breast tumor cells. *Mol Pharmacol* 1994;45:649-56
- Garcia-Medina R, Dunne WM, Singh PK, Brody SL. *Pseudomonas aeruginosa* acquires biofilm-like properties within airway epithelial cells. *Infect Immun* 2005;73:8298–305
- Gause, G. F., and M. G. Brazhnikova. 1944. Gramicidin S and its use in the treatment of infected wounds. *Nature* 154:703
- Housman, Genevieve , Shannon Byler , Sarah Heerboth , Karolina Lapinska2, et al. (2014) *Drug Resistance in Cancer: An Overview*. *Cancers* 2014, 6, 1769-1792; doi:10.3390/cancers6031769. Retrieved from www.mdpi.com/journal/cancers: 01July 2019
- Hpv & Centre. ICO Information Centre on HPV and Cancer (HPV Information Centre). 2015
- Isherwood B, Timpson P, McGhee EJ, Anderson KI, Canel M, Serrels A, Brunton VG, Corregger NO. Live cell in vitro and in vivo imaging applications: accelerating drug discovery. *Pharmaceutics*. 2011; 3: 141–170. doi:10.3390/pharmaceutics3020141
- Johnson CH, et al (2015) Metabolism links bacterial biofilms and colon carcinogenesis. *Cell Metab*;21(6):891–897. doi: 10.1016/j.cmet.2015.04.011.
- Kampfer P, Buczolits S, Albrecht A et al. (2003) Towards a standardized format for the description of novel species (of an established genus): *Ochrobactrum gallinifaecis* sp. nov. *Int J Syst Evol Microbiol* ;53:893-6.
- Kampfer P, Huber B, Busse HJ et al. (2011) *Ochrobactrum pectoris* sp. nov., isolated from farm animals. *Int J Syst Evol Microbiol*;61:2278-83.

- Landry J Theodor Pyl P, Rausch T, Zichner T, Tekkedil M, et. al. 2013. The genomic and transcriptomic landscape of a HeLa cell line. DOI: 10.1534/g3.113.005777
- Lee, K. C., Kim, K. K., Eom, M. K., Kim, J. S., Kim, D. S., Ko, S. H., & Lee, J. S. (2014). *Aneurinibacillus soli* sp. nov., isolated from mountain soil. *International journal of systematic and evolutionary microbiology*, 64(11), 3792-3797.
- Liu, J., Luo, J., Ye, H., & Zeng, X. (2012). Preparation, antioxidant and antitumor activities in vitro of different derivatives of levan from endophytic bacterium *Paenibacillus polymyxa* EJS-3. *Food and Chemical Toxicology*, 50(3-4), 767–772. doi:10.1016/j.fct.2011.11.016
- Lucey BP, Nelson-Rees WA, Hutchins GM. Henrietta Lacks, HeLa cells, and cell culture contamination. *Archives of Pathology & Laboratory Medicine*. 2009; 133: 1463–1467. doi:10.1043/1543-2165-133.9.1463
- Ma H, Das T, Pereira S, et al. (2009) Efficacy of dietary antioxidants combined with a chemotherapeutic agent on human colon cancer progression in a fluorescent orthotopic mouse model. *Anticancer Research*;29(7):2421–2426.
- MacFaddin J. F., (1985), Media for the Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol.1, *Williams and Wilkins*, Baltimore
- Magdalena Jedrzejczak-Silicka (May 10th 2017). History of Cell Culture, New Insights into Cell Culture Technology, Sivakumar Joghi Thatha Gowder, IntechOpen, DOI: 10.5772/66905. Available from: <https://www.intechopen.com/books/new-insights-into-cell-culture-technology/history-of-cell-culture>
- Mariggio M, Cassano A, Vinella A, Vincenti A, Fumarulo R, et. al. (2009). Enhancement of Fibroblast Proliferation, Collagen Biosynthesis and Production of Growth Factors as a Result of combining Sodium Hyaluronate and aminoacids. *International Journal of Immunopathology and Pharmacology*. 2009 vol: 22 (2) pp: 485-492
- McNerny, D. Q., Leroueil, P. R., & Baker, J. R. (2010). Understanding specific and nonspecific toxicities: a requirement for the development of dendrimer-based pharmaceuticals. *Wiley interdisciplinary reviews. Nanomedicine and nanobiotechnology*, 2(3), 249–259. doi:10.1002/wnan.79
- Milano, G., Cassuto-Viguiet, E., Fischel, J. ., Formento, P., Renée, N., Frenay, M Namer, M. (1992). *Doxorubicin weekly low dose administration: in vitro cytotoxicity generated by the typical pharmacokinetic profile. European Journal of Cancer*, 28(11), 1881–1885. doi:10.1016/0959-8049(92)90028-z
- Miyake K, Yamamoto S, Iijima S.(1996) Blocking adhesion of cancer cells to endothelial cell types by S. Agalactiae type-specific polysaccharides. *Cytotechnology*;22(1-3):205–209. doi: 10.1007/BF00353940.
- Nadjar D, Labia R, Cerceau C et al. (2001) Molecular characterization of chromosomal class C betalactamase and its regulatory gene in *Ochrobactrum anthropi*. *Antimicrob Agents Chemother* ;45:2324-30.
- Nurchayanti A. (2016). Cervical Cancer: The Case in Indonesia and Natural Product-Based Therapy. *J Cancer Biol Res*. vol: 4 (1) pp: 1078
- Raimundo, I., Silva, S. G., Costa, R., & Keller-Costa, T. (2018). Bioactive Secondary Metabolites from Octocoral-Associated Microbes-New Chances for Blue Growth. *Marine drugs*, 16(12), 485. doi:10.3390/md16120485
- Regueiro V, Campos MA, Pons J, Alberti S, Bengoechea JA (2006) The uptake of a *Klebsiella pneumoniae* capsule polysaccharide mutant triggers an inflammatory response by human airway epithelial cells. *Microbiology* 152: 555–566.
- Riss, T. L. (2016). Cell Viability Assays. Retrieved December 03, 2017, from <https://www.ncbi.nlm.nih.gov/books/NBK144065/>
- Rivankar S. An overview of doxorubicin formulations in cancer therapy. *J Can Res Ther* [serial online] 2014 [cited 2019 Jul 3];10:853-8. Available from: <http://www.cancerjournal.net/text.asp?2014/10/4/853/139267>

- Salgado, J., S. L. Grage, L. H. Kondejewski, R. S. Hodges, R. N. McElhaney, and A. S. Ulrich. (2001). Membrane-bound structure and alignment of the antimicrobial β -sheet peptide gramicidin S derived from angular and distance constraints by solid state ^{19}F -NMR. *J. Biomol. NMR* 21:191-208.
- Shewach, D. S., & Kuchta, R. D. (2009). Introduction to cancer chemotherapeutics. *Chemical reviews*, 109(7), 2859-61.
- Skladanowski, A., & Konopa, J. (1993). Adriamycin and daunomycin induce programmed cell death (apoptosis) in tumour cells. *Biochemical pharmacology*, 46(3), 375-382.
- Smits, W. K., O. P. Kuipers, and J. W. Veening. (2006). Phenotypic variation in bacteria: the role of feedback regulation. *Nat. Rev. Microbiol.* 4:259-271.
- Soloaga R, Carrion N, Pidone J et al.(2009) Catheter-associated bacteremia caused by *Ochrobactrum anthropi*. *Medicina (B Aires)*;69:655–7
- Song, S., Vuai, M. S., & Zhong, M. (2018). The role of bacteria in cancer therapy - enemies in the past, but allies at present. *Infectious agents and cancer*, 13, 9. doi:10.1186/s13027-018-0180-y
- Souza AG, Ferreira ICC, Marangoni K, Bastos VAF, Goulart VA. Advances in cell culture: more than a century after cultivating cells. *Journal of Biotechnology & Biomaterials*. 2016; 6: 1–4. doi:10.4172/2155-952X.1000221
- Sun, Y., Liu, Z., Zou, X., Lan, Y., Sun, X., Wang, X., ... Liu, H. (2015). Mechanisms underlying 3-bromopyruvate-induced cell death in colon cancer. *Journal of bioenergetics and biomembranes*, 47(4), 319–329. doi:10.1007/s10863-015-9612-1
- Thoma B, Staube E, Sholz HC et al. (2009) Identification and antimicrobial susceptibilities of *Ochrobactrum* spp. *Int J Med Microbiol*;299:209-20.
- Teyssier, Corinne & Jumas-Bilak, Estelle. (2011). Chapter 56 *Ochrobactrum*. 10.1201/b10848-63.
- Todaro, GJ; Green, H (1963). "Quantitative studies of the growth of mouse embryo cells in culture and their development into established lines". *J. Cell Biol.* (17): 299–313. doi:10.1083/jcb.17.2.299
- Tonder, A. V., Joubert, A. M., & Cromarty, A. (2015). Limitations of the 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyl-2H-tetrazolium bromide (MTT) assay when compared to three commonly used cell enumeration assays. *BMC Research Notes*, 8(1), 47. doi:10.1186/s13104-015-1000-8
- Tornesello A, Piciacchia D, Mastrangelo S, Lasorella A, Mastrangelo R. Venous-occlusive disease of the liver in right-sided Wilms' tumours. *Eur J Cancer* 1998;34:12203.
- Tsubouchi, T., Mori, K., Miyamoto, N., Fujiwara, Y., Kawato, M., Shimane, Y., ... & Uematsu, K. (2015). *Aneurinibacillus tyrosinisolvans* sp. nov., a tyrosine-dissolving bacterium isolated from organics- and methane-rich seafloor sediment. *International journal of systematic and evolutionary microbiology*, 65(6), 1999-2005.
- Udalova, T. P., and R. I. Fedorova. (1965). The effect of various nutrient compounds upon gramicidin formation in *Bacillus brevis* var. G.B. *Mikrobiologiya* 34:631-635.
- Velasco J, Romero C, Lopez-Goni I, Leiva J, Diaz R, Moriyon R (1998) Evaluation of the relatedness of *Brucella* spp. and *Ochrobactrum anthropi* and description of *Ochrobactrum intermedium* sp. nov., a new species with a closer relationship to *Brucella* spp.. *Int J Syst Bacteriol* 48:759 – 768
- Velasco J, Bengoechea JA, Brandenburg K, Lindner B, Seydel U, et al. (2000) *Brucella abortus* and its closest phylogenetic relative, *Ochrobactrum* spp., differ in outer membrane permeability and cationic peptide resistance. *Infect Immun* 68: 3210–3218
- Verdine G.L. (1996). The combinatorial chemistry of nature. *Nature*. 1996 Nov 7;384(6604 Suppl):11-3.
- Walker, A. W., Ince, J., Duncan, S. H., Webster, L. M., Holtrop, G., Ze, X., ... Flint, H. J. (2011). Dominant and diet-responsive groups of bacteria within the human colonic microbiota. *The ISME journal*, 5(2), 220–230. doi:10.1038/ismej.2010.118
- Weitao T. (2009) Bacteria form biofilms against cancer metastasis. *Med Hypotheses*;72(4):477–478. doi: 10.1016/j.mehy.2008.11.012.

WHO. Cancer country profiles 2014 – Indonesia. 2014.

Yuste R. Fluorescence microscopy today. *Nature Methods*. 2005; 2: 902–904.
doi:10.1038/nmeth1205-902

Zu, L., Xiong, J., Li, G., Fang, Y., & An, T. (2014). Concurrent degradation of tetrabromobisphenol A by *Ochrobactrum* sp. T under aerobic condition and estrogenic transition during these processes. *Ecotoxicology and environmental safety*, 104, 220-225.