

DAFTAR PUSTAKA

- Abbaszadeh, A., Tehmasebi-Foolad, A., Rajabzadeh, A., Beigi-Brojeni, N., & Zarei, L. 2019. Effects of Chitosan/Nano Selenium Biofilm on Infected Wound Healing in Rats; An Experimental Study. *Bulletin of Emergency and Trauma*, 7(3), 284–291.
- Ahmad M, Ahmed S, Swami BL, Ikram S. 2015. Preparation and Characterization of Antibacterial Thiosemicarbazide Chitosan as Efficient Cu(II) Adsorbent. *Carbohydrate Polymers*.
- Archana D, Dutta J, Dutta P. 2013. Evaluation of chitosan nano dressing for wound healing: characterization, *in vitro* and *in vivo* studies. *Int J Biol Macromol*. 2013;57:193–203.
- Ashouri, F., Beyranvand, F., Beigi Boroujeni, N., Tavafi, M., Sheikhan, A., Varzi, A. M., & Shahrokhi, S. 2019. Macrophage polarization in wound healing: role of *Aloe vera*/chitosan nanohydrogel. *Drug Delivery and Translational Research*.
- Azuma K, Izumi R, Osaki T, Ifuku S, Morimoto M, Saimoto H, *et al*. 2015. Chitin, chitosan, and its derivatives for wound healing: old and new materials. *Journal of functional biomaterials*. 2015; 6(1):104–42. [PubMed: 25780874].
- A. H. Choi and B. Ben-Nissan. 2019. *Marine-Derived Biomaterials for Tissue Engineering Applications*, Eds., vol. 14, pp. 223–243, Springer Singapore, Singapore, 2019.
- Bhattarai N, Gunn J, Zhang M. 2010. Chitosan-based hydrogels for controlled, localized drug delivery. *Advanced Drug Delivery Reviews*.

Jan;62(1):83-99.

- Chung, YC.; Yeh, J.Y.; Tsai, C.F. 2011. Antibacterial Characteristics and Activity of Water-Soluble Chitosan Derivatives Prepared by the Maillard Reaction. *Molecules*, 16, 8504-8514.
- C. Ahn, J. Kim, J. Je. 2014. Purification and antioxidant properties of octapeptide from salmon byproduct protein hydrolysate by gastrointestinal digestion. *Food Chem.*147, 78–83.
- C. F. Chi, Z. H. Cao, B. Wang, F. Y. Hu, Z. R. Li, B. Zhang. 2014. Antioxidant and functional properties of collagen hydrolysates from Spanish mackerel skin as influenced by average molecular weight. *Molecules*. 19, 11211–11230.
- Dai, T. *et al.* 2011. Chitosan preparations for wounds and burns : antimicrobial and wound-healing effects, *Expert Reviews Anti Infection Theurapeutics*, 9(7), pp. 857–880.
- Dhivya, S., Vijaya, V. and Santhini, E. 2015. **Review article: Wound dressings – a review**, 5(4), pp. 24–28.
- Dimzon IKD, Knepper TP. 2015. Degree of deacetylation of chitosan by infrared spectroscopy and partial least squares. *International Journal of Biological Macromolecules*. 72: 939-945.
- Elieh-Ali-Komi, D., Hamblin, M. R. and Daniel, E.-A.-K. 2016. Chitin and Chitosan: Production and Application of Versatile Biomedical Nanomaterials HHS Public Access. *International Journal of Advanced Research (Indore)*, 4(3), pp. 411–427.

- Felician FF, Xia C, Qi W, Xu H. 2018. Collagen from Marine Biological Sources and Medical Applications. *Chemistry Biodiversity* 15(5):e1700557.
- Ferreira, M. O. G., Leite, L. L. R., de Lima, I. S., Barreto, H. M., Nunes, L. C. C., Ribeiro, A. B. da Silva Filho, E. C. 2016. *Chitosan Hydrogel in combination with Nerolidol for healing wounds. Carbohydrate Polymers*, 152, 409–418.
- Gharehgheshlagh, S. N., Fatemi, M. J., Jamili, S., Nourani, M. R., Sharifi, A. M., Saberi, M., Ganji, F. 2020. A Dermal Gel Made of Rutilus Kutum Skin Collagen-Chitosan for Deep Burn Healing. *International Journal of Peptide Research and Therapeutics*.
- Guo, S. and Dipietro, L. A. 2010. *Factors Affecting Wound Healing*. (Mc 859), pp. 219–229.
- Huang, M. *et al.* 2004. Uptake and cytotoxicity of chitosan molecules and nanoparticles: Effects of molecular weight and degree of deacetylation. *Pharmaceutical Research*, 21 (2), 344-353.
- Hu, Z.; Yang, P.; Zhou, C.; Li, S.; Hong, P. 2017. Marine Collagen Peptides from the Skin of Nile Tilapia (*Oreochromis niloticus*): Characterization and Wound Healing Evaluation. *Marine Drugs*. 15, 102.
- Husain, S., Al-Samadani, K. H., Najeeb, S., Zafar, M. S., Khurshid, Z., Zohaib, S., & Qasim, S. B. 2017. Chitosan Biomaterials for Current and Potential Dental Applications. *Materials (Basel, Switzerland)*, 10(6), 602.
- Janahmadi Z, Motlagh MR, Zaeri S. 2019. Enhancing rat full-thickness skin wounds with a mixed aloe/chitosan gel. *Formos J Surg* ;52:84-91.

- Jayakumar R, Prabakaran M, Nair SV, Tamura H. 2010. Novel chitin and chitosan nanofibers in biomedical applications. *Biotechnology Advances*. 28: 142-150.
- Jayakumar R, Prabakaran M, Sudheesh Kumar PT, Nair SV, Tamura H. 2011. Biomaterials based on chitin and chitosan in wound dressing applications. *Biotechnology Advances*. 29(3):322–37. [PubMed: 21262336].
- Joshua S, Boateng kerr H, Matthews howard NE, Stevens Gillian ME. 2008. Wound healing dressings and drug delivery systems: a review. *Journal of Pharmaceutical Sciences*. 97: 2892-2923.
- Keong LC, Halim AS .2009. *In vitro* models in biocompatibility assessment for biomedical-grade chitosan derivatives in wound management. *International Journal of Molecular Sciences*. 10: 1300-1313.
- Lamarque, G. *et al.* 2005. Physicochemical behavior of homogeneous series of acetylated chitosans in aqueous solution: role of various structural parameters. *Biomacromolecules*, 6 (1), 131-142.
- Lam, Tran & Pham, Gia & Phuc, N. & Vu, Hoang & Nguyen Ngoc, Thinh & Tran, Hoang & Mai, Trang & Binh, Nguyen & Le, Duong & Nguyen, Thi & Ba, Thi. 2011. Some biomedical applications of chitosan-based hybrid nanomaterials. *Advances in Natural Sciences: Nanoscience and Nanotechnology*.
- Martin JM, Zenilman JM, Lazarus GS. 2010. Molecular microbiology: new dimensions for cutaneous biology and wound healing. *J Invest Dermatol*. 130(1):38-48.

- Mohanty, C., & Sahoo, S. K. 2017. Curcumin and its topical formulations for wound healing applications. *Drug Discovery Today*, 22(10), 1582–1592.
- Moriyama, M., *et al.* 2016. Mechanism of *Aloe vera* gel on wound healing in human epidermis. *Journal of Dermatological Science*, 84(1), e150–e151.
- Nelson, K. M., Dahlin, J. L., Bisson, J., Graham, J., Pauli, G. F., & Walters, M. A. 2017. The Essential Medicinal Chemistry of Curcumin. *Journal of Medicinal Chemistry*, 60(5), 1620–1637.
- Ong TH, Chitra E, Ramamurthy S, *et al.* 2017. Chitosan-propolis nanoparticle formulation demonstrates anti-bacterial activity against *Enterococcus faecalis* biofilms. *Public Library of Science ONE*. 2017;12(3).
- Ouyang QQ, Hu Z, Lin ZP, *et al.* 2018. Chitosan hydrogel in combination with marine peptides from tilapia for burns healing. *International Journal Biological Macromolecules*. 112:1191-1198.
- Qian, R.Q. and Glanville, R.W. 2005. *Methods for purifying chitosan Providence Health System*. US Patent Number-6896809.
- Radhakumary, C., Antonty, M., Sreenivasan, K. 2011. Drug loaded thermoresponsive and cytocompatible chitosan based hydrogel as a potential wound dressing. *Carbohydrate Polymer* 83, 705–713.
- Raftery, R., O'Brien, F. J., & Cryan, S. A. 2013. Chitosan for gene delivery and orthopedic tissue engineering applications. *Molecules (Basel, Switzerland)*. 18(5), 5611–5647.
- Rajendran, S. and Anand, S. C. 2011. *Hi-tech textiles for interactive wound*

- therapies, Handbook of medical textiles*. Woodhead Publishing Limited.
- Ranjbar R, Yousefi AR. 2018. Effects of *Aloe vera* and Chitosan Nanoparticle Thin-Film Membranes on Wound Healing in Full Thickness Infected Wounds with Methicillin Resistant *Staphylococcus Aureus*. *Bulletin of Emergency Trauma*;6(1):8-15.
- Ribeiro MP, Espiga A, Silva D, *et al*. 2009. Development of a new chitosan hydrogel for wound dressing. *Wound Repair Regeneration*. 17(6):817-824.
- Sari, R., Erawati, T., Fauziah, F., and Yuniarti, W.M. 2019. Formulation, Physical Characterization And Wound Healing Activity Evaluation of Carboxymethyl Chitosan-Curcumin Carbomer-Based Hydrogel. *International Journal of Drug Delivery Technology*, 9(4): 997-703.
- Schreml, S. *et al*. 2010. Oxygen in acute and chronic wound healing. *British Journal of Dermatology*, 163(2), pp. 257–268.
- Sharma, Dharmesh & Woike, Poonam & Saify, Khozema. 2016. Treatment of non-healing wound with Platelet Rich Plasma (PRP) dressing; Cellular Dressing. *Asian Journal of Pharmaceutical and Health Sciences*. 6. 1489-1491.
- Singh R, Shitiz K, Singh A. 2017. Chitin and chitosan: biopolymers for wound management. *International Wound Journal* 14(6) : 1276 – 1289 .
- Tang F, Lv L, Lu F, *et al*. 2016. Preparation and characterization of N-chitosan as a wound healing accelerator. *International Journal of Biological Macromolecules*. 2016 Dec;93(Pt A):1295-1303.

- Teplicki, Eric & Ma, Qianli & Castillo, David & Zarei, Mina & Hustad, Adam & Chen, Juan & Li, Jie. 2018. The Effects of *Aloe vera* on Wound Healing in Cell Proliferation, Migration, and Viability. *Wounds : a compendium of clinical research and practice*. 30. 263-268.
- Thangapazham R, Sharad S, Maheshwari R. 2013. Skin regenerative potentials of curcumin. 664. **Biofactors**. 39:141–9.
- Trung TS, Thein-Han WW, Qui NT, Ng CH, Stevens WF. 2006. Functional characteristics of shrimp chitosan and its membranes as affected by the degree of deacetylation. *Bioresource Technology*, 97(4), 659-63.
- Wardono, A. P. dkk. 2012. *Pengaruh Kitosan secara Topikal terhadap Penyembuhan Luka Bakar Kimiawi pada Kulit Rattus norvegicus*. 12(3), pp. 177–187.