

DAFTAR PUSTAKA

- Acheampong, M. A., Hill, M. P., Moore, S. D., & Coombes, C. A. (2020). UV sensitivity of *Beauveria bassiana* and *Metarhizium anisopliae* isolates under investigation as potential biological control agents in South African citrus orchards. *Fungal Biology*, 124(5), 304–331.
- Akhtar, N. (2015). Taxonomy And Biological Observations On Two Pentatomid Pests *Dolycoris Indicus* Stal And *Eurydema Pulchrum* Westwood Attacking Agricultural Crops In Kashmir Valley. *International Journal of Entomological Research*, 03(2), 55–59.
- Altinok, H. H., Altinok, M. A., & Koca, A. S. (2019). Modes of action of entomopathogenic fungi. *Current Trends in Natural Sciences*, 8(16), 117–124.
- Boston, W., Leemon, D., & Cunningham, J. P. (2020). Virulence screen of *Beauveria bassiana* isolates for Australian carpophilus (Coleoptera : Nitidulidae) beetle biocontrol. *Agronomy*, 10, 1–10.
- Cheong, P. C., Glare, T. R., Rostas, M., Haines, S., Brookes, J. J., & Ford, S. (2020). Lack of involvement of chitinase in direct toxicity of *Beauveria bassiana* cultures to the aphid *Myzus persicae*. *Journal of Invertebrate Pathology*, 169, 107–276.
- Dannon, H. F., Dannon, A. E., Douro-Kpindou, O. K., Zinsou, A. V, Houndete, A. T., Toffa-Mehinto, J., Elegbede, I. A. T. M., Olou, B. D., & Tamo, M. (2020). Toward the efficient use of *Beauveria bassiana* in integrated cotton insect pest management. *Journal of Cotton Research*, 3(1), 1–21.
- Flawerina, G. (2021). Penggunaan Cendawan Entomopatogen *Beauveria bassiana* (Balsamo) Vuill. Untuk Pengendalian *Bemisia tabaci* (Gennadius) (Hemiptera : Aleyrodidae) Pada Tanaman Tomat. *Thesis. Program Pascasarjana. Universitas Andalas.*
- Hasyim, A., Setiawati, W., Hudayya, & Luthfy. (2016). Sinergisme Jamur Entomopatogen *Metarhizium anisopliae* Dengan Insektisida Kimia Untuk Meningkatkan Mortalitas Ulat Bawang *Spodoptera exigua* (Synergism Entomopathogenic Fungus *Metarhizium anisopliae* And Chemical Insecticide To Increase The Mortality Of Army. *J. Hort*, 26(2), 257–266.
- Hendrik, M. A. (2016). *Karakteristik Fisiologi dan Virulensi Jamur Entomopatogen Beauveria bassiana dan Metarhizium spp. Sebagai Agens Pengendalian Hayati Hama Penghisap Buah Kakao Helopeltis sp. (Hemiptera : Miridae)*. Universitas Andalas.

- Herdatiarni, F., Himawan, T., & Rachmawati, R. (2014). Eksplorasi Cendawan Entomopatogen *Beauveria* sp. Menggunakan Serangga Umpan pada Komoditas Jagung, Tomat dan Wortel Organik di batu, Malang. *Jurnal HPT*, 1(3), 1–11.
- Herlinda, S., Hamdiyah, Adam, T., & Thalib, R. (2006). Toksisitas isolat-isolat *Beauveria bassiana* (Bals.) Vuill. Terhadap nimfa *Eurydema pulchrum* (Westw.) (Hemiptera : Pentatomidae). *Agria*, 2(2), 34–37.
- Herlinda, S., & Thalib, R. (2006). Bio-ekologi *Eurydema pulchrum* (Westw.) (Hemiptera : Pentatomidae) pada Tanaman Caisin. Seminar Nasional Dengan Tema “Strategi Pemanfaatan Ketahanan Pangan Nasional Melalui Revitalisasi Dan Resenergisme Sistem Agribisnis.”
- Herlinda, S., Thalib, R., Leka, S., Effendy, T., & Adam, T. (2008). Populasi dan serangan kepik kubis, serta potensi parasitoid telurnya pada tanaman caisin. Prosiding Seminar Nasional “Pengelolaan Organisme Pengganggu Tumbuhan Dan Sumber Daya Hayati Yang Berwawasan Lingkungan Dalam Menyikapi Dampak Pemanasan Global”, 253–260.
- Isnaeni, S. F. (2017). *Ordo Serangga OPT dan Gejala Serangan*. Fakultas Pertanian. Universitas Jember.
- Jaber, L. R., & Ownley, B. H. (2018). Can we use entomopathogenic fungi as endophytes for dual biological control of insect pests and plant pathogens. *Biological Control*, 116, 36–45.
- Kumar, C. M. S., Jacob, T. K., Devasahayam, S., Silva, S. D., & Nandeesh, P. G. (2016). Characterization and virulence of *Beauveria bassiana* associated with auger beetle (*Sinoxylon anale*) infesting allspice (*Pimenta dioica*). *Kumar, C. M. S., Jacob, T. K., Devasahayam, S., Silva, S. D., Nandeesh, P. G.*, 139, 67–73.
- Lacey, L. A., Frutos, R., Kaya, H. K., & Vail, P. (2001). Insect Pathogens As Biological Control Agents: Do They Have A Future. *Biological Control*, 21(3), 230–248.
- Liu, Z., Lei, Z., Hua, B., Wang, H., & Lin, T. X. (2010). Germination behavior of *Beauveria bassiana* (Deuteromycotina : Hyphomycetes) on *Bemisia tabaci* (Hemiptera : Aleyrodidae) nymphs. *Journal of Entomological Science*, 45(4), 322–334.
- Lugwig, S. W., & Kok, L. . (2001). Harlequin bug, *Murgantia histrinica* (Habb) (Heteroptera : Pentatomidae) Development on Three crucifers and feeding Damage on Broccoli. *Crop Protection*.
- Mahankuda, B., & Bhatt, B. (2019). Potentialities entomopathogenic fungus *Beauveria bassiana* as a biocontrol agent : A Review. *Journal of Entomology and Zoology Studies*, 7(5), 870–874.

- Maistrou, S., Paris, V., Jensen, A. B., Rolff, J., Meyling, N. V., & Zanchi, C. (2018). A constitutively expressed antifungal peptide protects *Tenebrio molitor* during a natural infection by the entomopathogenic fungus *Beauveria bassiana*. *Immunology*, 86, 26–33.
- Mascarin, G. M., & Jaronski, S. T. (2016). The production and uses of *Beauveria bassiana* as a microbial insecticide. *World Journal of Microbiology and Biotechnology*, 32(11), 1–26.
- Meena, M., Prasad, V., Zehra, A., Gupta, V. K., & Upadhyay, R. S. (2015). Manitol metabolism during pathogenic fungalhost interactions under stressed conditions. *Frontiers in Microbiology*, 6, 1–12.
- Mishra, S., Kumar, P., & Malik, A. (2013). Preparation, characterization, and insecticidal activity evaluation of three different formulations of *Beauveria bassiana* against *Musca domestica*. *Parasitology Research*, 112(10), 3485–3495.
- Mulock, B. S., & Chandler, L. D. (2001). Effect of *Beauveria bassiana* on the fecundity of western corn rootworm *Diabrotica virgifera* (Coleoptera : Chrysomelidae). *Biological Control*, 22(1), 16–21.
- Nafeesa, A., & Ahma, T. (2015). Taxonomy and biological observations on two pentatomid pests *Dolycoris indicus* stal and *Eurydema pulchrum* (westwood) attacking agricultural crops in kashmir valley. *Int. J. Entomol.*, 02, 55–59.
- Namara, L. M., Dolan, S. K., Walsh, J. M. D., Griffin, C., Stephens, J., Glare, T., & Kavanagh, K. (2019). Oosporein an abundant metabolite in *Beauveria calondonica* with a feedback induction mechanism and a role in insect virulence. *Fungal Biology*, 123(8), 601–610.
- Oliveira, D. G. P., Lopes, R. B., Rezende, J. M., & Delalibera, I. J. (2018). Increased tolerance of *Beauveria bassiana* and *Metarhizium anisopliae* conidia to high temperature provided by oil-based formulations. *Journal of Invertebrate Pathology*, 151, 151–157.
- Popoola, A. O., Osipitan, A. A., Afolabi, C. G., & Oke, O. A. (2015). Biological control of larger grain borer *Proteaphanus truncates* (Horn) (Coleoptera : Bostrichidae) with entomopathogenic fungi *Beauveria bassiana* (Balsamo) Vuillemin (Hypocreales : Cordycipitaceae). *International Journal of Entomology and Nematology*, 2(1), 2–8.
- Pratama, Y. (2018). Kepadatan Populasi dan Tingkat Serangan Kepik Kubis (*Eurydema pulchrum* Westwood) (Hemiptera : Pentatomidae) pada Tanaman Kubis-Kubisan (Brassicaceae) di Kecamatan Sungai Pua Kabupaten Agam. Skripsi. Fakultas Pertanian. Universitas Andalas.

- Prayogo, Y. (2009). Kajian cendawan entomopatogen *Lecanicillium lecanii* (Zimm.) (Viegas) Zare Gams untuk menekan perkembangan telur hama penghisap polong kedelai *Riptortus linearis* (F.) (Hemiptera : Alydidae). *Disertation*.Sekolah Pascasarjana. Institut Pertanian Bogor.
- Prayogo, Y., Tengkano, T., & Marwoto. (2005). No TitleProspek Cendawan Entomopatogen *Metarhizium anisopliae* untuk Mengendalikan Ulat Grayak *Spodoptera litura* pada Kedelai. *J. Litbang Pertanian*, 24(1), 19–26.
- Rabari, P. H., Dodia, D. A., Patel, P. S., Patel, R. K., & Davada, A. Y. (2015). No TitleOvicidal and larvical toxicity of various insecticides against *Spodoptera litura* Fabricius on cabbage. *Agres-An International e Journal*, 4(3), 282–289.
- Ramdhania, D., Haneda, N. F., & Achmad. (2016). Effectiveness of *Beauveria bassiana* against *Coptotermes curvignathus*. *Jurnal Silvikultur Tropika*, 7(3), 19–21.
- Rusli, R., & Trizelia. (2009). *Perbanyakkan Beauveria bassiana Pada Limbah Organik, Formulasi dan Uji Efektivitas Sebagai Bioinsektisida untuk Pengendalian Hama Spodoptera exigua (Lepidoptera : Noctuidae)*. Jurusan Hama Penyakit Tumbuhan. Universitas Andalas.
- Sambel, D. . (2010). *Pengendalian hayati hama-hama serangga tropis dan gulma*. Andi Offset.
- Saranraj, P., & Jayaprakash, A. (2017). Agrobeneficial entomopathogenic fungi *Beauveria bassiana*: A review. *Indo-Asian Journal of Multidisciplinary Research*, 3(2), 1051–1087.
- Sayed, S., Elarrnaouty, S. A., Alotaibi, S., & Salah, M. (2021). Pathogenicity and side effect of indigenous *Beauveria bassiana* on *Coccinella undecimpunctata* and *Hippodamia variegata* (Coleoptera : Coccinellidae). Insect, 12(42), 1–11.
- Septiana, N., Rosa, E., & Ekowati, C. . (2019). Isolasi Dan Identifikasi Jamur Entomopatogen Sebagai Kandidat Bioinsektisida Lalat Rumah (*Musca domestica*). *Biosfer: Jurnal Tadris Biologi*, 10(1), 87–94.
- Shahid, A. A., Rao, A. Q., Bakhsh, A., & Husnain, T. (2012). Entomopathogenic Fungi As Biological Controllers : New Insights Into Their Virulence And Pathogenicity. *Archives Of Biological Science*, 64(1), 21–42.
- Shi, W. B., Jiang, Y., & Feng, M. G. (2005). Compatibility of ten acaricides with *Beauveria bassiana* and enhancement of fungal infection to *Tetranychus cinnabarinus* (Acari: Tetranychidae) eggs by sublethal application rates of pyridaben. *Applied Entomology and Zoology*, 40(4), 656–666.

- Siluh, P. N., Wibowo, L., & Azis, A. (2012). Penambahan Beberapa Jenis Bahan Nutrisi pada Media Perbanyakan untuk Meningkatkan Virulensi *Beauveria bassiana* terhadap Hama Walang sangit. *Jurnal HPT Tropika*, 12(1), 64–70.
- Soesanto, L., Sari, L. Y., Mugiaستuti, E., & Manan, A. (2021). Cross application of entomopathogenic fungi raw secondary metabolites for controlling fusarium wilt of chili seedlings. *Jurnal Hama Dan Penyakit Tumbuhan Tropika*, 21(2), 82–90.
- Sumini, Herlinda, S., & Irsan, C. (2014). Dampak Aplikasi Bioinsektisida Terhadap Populasi Serangga Hama Pada Padi Ratun Di Sawah. *Seminar Nasional Lahan Suboptimal*.
- Svedese, V. M., Tiago, P. V., Bezerra, J. D. P., Paiva, L. M., Lima, E. A. D. L. A., & Porto, A. L. F. (2013). Pathogenicity of *Beauveria bassiana* and production of cuticle-degrading enzymes in the presence of *Diatraea saccharalis* cuticle. *African Journal of Biotechnology*, 12(46), 6691–6497.
- Thalib, R., Adrizal, L. S., Herlinda, S., & Efendy, T. A. (2008). Populasi dan Serangan Kepik Kubis serta Potensi Parasitoid Telurnya pada Tanaman Caisin. *Jurnal HPT*.
- Trizelia. (2005). Cendawan Entomopatogen *Beauveria bassiana* (Bals.) Vuill. (Deuteromycotina : Hyphomycetes) : Keragaman Genetik, Karakterisasi Fisiologi dan Virulensinya terhadap *Crocidiolomia Pavonana* (F.) (Lepidoptera : Pyralidae). *Disertasi*. Institut Pertanian Bogor.
- Wedayanti, N. (2013). Kajian Jamur Entomopatogen *Metarhizium anisopliae* Sebagai Endofit Tanaman Pakcoy Dan Pengaruhnya Terhadap Hama *Plutella xylostella*. In *Gastronomía Ecuatoriana Y Turismo Local*, 1(69).
- Zafar, J., Freed, S., Khan, B., & Farooq, M. (2016). Effectiveness of *Beauveria bassiana* against cotton whitefly, *Bemisia tabaci* (Gennadius) (Aleyrodidae : Homoptera) on different host plants. *Pakistan J. Zool*, 48(1), 91–99.