

PERSONEL INFORMATION	
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Title	Agricultural Engineer
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Date and Place of Birth	1976 – Karabük, Turkey
Department	Biological Control
Unit	Entomopathogens Lab.
Research Interests	<ul style="list-style-type: none"> • Biological control agents in agriculture and forestry • Biological control of pests by microbial pathogens • Insect symbiosis • Insect pathology



EDUCATION INFORMATION	
Postgraduate	
University Name	Cukurova University
Academic Unit/Year of Graduation	Institute of Natural and Applied Science, Dep. of Plant Protection – 2018
Master's Degree	
University Name	Cukurova University
Academic Unit/Year of Graduation	Institute of Natural and Applied Science, Dep. of Plant Protection - 2011
Undergraduate	
University Name	Cukurova University
Academic Unit/Year of Graduation	Faculty of Agriculture, Department of Plant Protection -1998

PUBLICATIONS
<ol style="list-style-type: none"> 1. Tireng, Ş., K. Karut and E. Şekeroğlu, 1999. Reproduction rate of <i>Chrysoperla carnea</i> (stephens) (Neuroptera: Chrysopidae) adults collected in winter months on different foods. IV. Turkish Biological Control Congress Proceedings, 26-29 January 1999, Adana, 473-482 p. 2. Karut, Ş.T. and Y. Aysan, 2011. Usable seed treatments for tomato bacterial wilt disease agent (<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i>) in organic production. IV. Turkish Plant Protection Congress Proceedings, 28-30 June 2011, Kahramanmaraş-316 (MSc). 3. Erdoğan, C., Güz, N., Akbaş, B., Değirmenci, K., Fidan, H., Karacaoğlu, M., Kütük, H.,

- Karut, Ş.**, Gürkan, M. O., Tsagkarakou, A. and Zchori-Fein, E., 2014. The insecticide resistance and endosymbiont status of *Bemisia tabaci* collected from different hosts. V. Turkish Plant Protection Congress Proceedings, 3-5 February 2014, Antalya, 27 p.
4. Değirmenci, K., Güz, N., Akbaş, B., Erdoğan, C., Fidan, H., Karacaoğlu, M., Kütük, H., **Karut, Ş.**, Gürkan, M. O. and Zchori-Fein, E., 2014. Tritrophic interactions between the *Bemisia tabaci*, its bacterial endosymbionts and TYLCV (Tomato Yellow Leaf Curl Virus). V. Turkish Plant Protection Congress Proceedings, 3-5 February 2014, Antalya, 34 p.
 5. Güz, N., Değirmenci, K., Akbaş, B., Erdoğan, C., Fidan, H., Karacaoğlu, M., Kütük, H., **Karut, Ş.**, Gürkan, M. O. and Zchori-Fein, E., 2014. Bacterial endosymbionts associated with *Bemisia tabaci* populations in Turkey. V. Turkish Plant Protection Congress Proceedings, 3-5 February 2014, Antalya, 147 p.
 6. Portakaldalı, M., Öztemiz, S., Yarpuzlu, F., **Karut, Ş.** and Eymirli, S., 2015. Biological control, in: Taşdan, K., Arslan, S. ve Çiçekgil, Z. (eds.), Overview of Agricultural Researches, Republic of Turkey Ministry of Food Agriculture and Livestock General Directorate of Agricultural Research and Policies, TEPGE Publications, No:260, ISBN: 978-605-9175-31-9, pp: 18-29, (in Turkish).
 7. Portakaldalı, M., **Karut T. Ş.**, Yarpuzlu, F., Temel, N. and Tüfekli, M., (2015). Bookstore of biological control in greenhouse vegetable cultivation. Directorate of Biological Control Research Station Publications, Adana, 26 p.
 8. Güz, N., Atlıhan, R., **Tireng Karut, Ş.**, Karacaoğlu, M., Fidan, H., Akbaş, B., Değirmenci, K., Erdoğan, C., Gürkan, M. O., Zchori-Fein, E. and Morin, S., 2016. Development and survival of *Bemisia tabaci* reared on *Solanum nigrum* under field conditions. Turkish Bulletin of Entomology, 6(3): 193-198.
 9. **Tireng Karut, Ş.**, Topçu, İ., Karaca, M. M. and Karut, K., 2016. Determination effect of rifampicin treatments to *Bemisia tabaci* (Gennadius) (Hemiptera: Aleyrodidae) (B biotype) population. Turkey 6th Plant Protection Congress with International Participation Abstracts, September 5-8, 2016, Konya, p: 192.
 10. Temel, N., Yarpuzlu, F., Tüfekli, M., **Tireng Karut, Ş.**, Portakaldalı, M., and Karacaoğlu, M., 2016. Questionnaire about the role and importance of biological control in environmental sustainability. Turkey 6th Plant Protection Congress with International Participation Abstracts, September 5-8, 2016, Konya, p: 140.
 11. **Tireng Karut, Ş.** and Aysan Y., 2016. Research on Using Potentiality of Some Bacteria in Control of Adult *Bemisia tabaci*. Turkey 6th Plant Protection Congress with International Participation Abstracts, September 5-8, 2016, Konya, p: 146.
 12. **Tireng Karut, Ş.** and Aysan, Y., 2017. Studies on Selection of Entomopathogenic Fungal Isolates in Biological Control of *Bemisia tabaci*. 6th Entomopathogens and Microbial Control Congress, 14-16 September 2017, Tokat-TURKEY, p: 107.
 13. Temel, N., Yarpuzlu, F., Tüfekli, M., **Tireng Karut, Ş.**, Portakaldalı, M. and Seçer, A., 2017. Determination knowledge level of farmers about biological control in the sustainable agriculture. Turkish Journal of Biological Control, 8 (1), pp: 71-82.

14. Temel N., Tüfekli, M., **Karut Ş. T.**, Yarpuzlu F. and Seçer A., 2018. Determination the Knowledge Level of Primary School Students about Biological Control in Rural Areas: Example of Adana and Mersin provinces. *ADYÜTAYAM Magazine*, 1, pp: 1-10.
15. **Tireng Karut, Ş.**, Karaca, M. M. and Karut, K., 2018. Secondary endosymbionts of *Bemisia tabaci* and its parasitoids collected from Cukurova region, Turkey. Turkey 7th Plant Protection Congress with International Participation Abstracts, 14-17 November 2018, Muğla, p: 26.
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17. **Tireng Karut, Ş.** and Aysan, Y., 2018. Bacterial flora of *Bemisia tabaci* populations collected from Adana and Mersin provinces. Turkey 7th Plant Protection Congress with International Participation Abstracts, 14-17 November 2018, Muğla, p: 229.
18. Doğru, A., Kahya, D. and **Tireng Karut, Ş.**, 2018. Studies on biology of potential predatory insect *Deraeocoris* sp. Turkey 7th Plant Protection Congress with International Participation Abstracts, 14-17 November 2018, Muğla, p: 242.
19. **Tireng Karut, Ş.**, Horuz, S. and Aysan, Y., 2019. Detection of Tomato Bacterial Canker and Wilt Disease Agent *Clavibacter michiganensis* subsp. *michiganensis* on/in Tomato Seeds and Efficacy of Different Seed Treatments on Pathogen Development. *Journal of Tekirdag Agricultural Faculty*, 16(3): 284-296.
20. **Tireng Karut, Ş.**, Karut, K. and Aysan, Y., 2020. Culturable bacterial strains isolated from *Bemisia tabaci* (Gennadius, 1889) (Hemiptera: Aleyrodidae) populations of Adana and Mersin Provinces of Turkey and their entomopathogen characteristics. *Turkish Journal of Entomology*, 44(1): 13-22.
21. Karut, K., Castle, S. J., **Tireng Karut, Ş.** and Karaca, M. M., 2020. Secondary endosymbiont diversity of *Bemisia tabaci* and its parasitoids. *Infection, Genetics and Evolution*, <https://doi.org/10.1016/j.meegid.2019.104104>.