

Curriculum Vita

Naser Tajabadi

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Education:

Diploma: General Agriculture, Mashhad Agriculture Training Center, Mashhad, Iran (1984-1988).

Associate Degree : Livestock Affairs, University of Mazandaran, Iran (1988-1990).

B.Sc.: Agricultural Engineering – Animal Science, Azad University of Karaj, Iran (1992-1995).

MSc: Department of Agriculture Technology, Faculty of Agriculture, University Putra Malaysia, 43400, Serdang, Selangor, Malaysia (2008-2010).

MSc Thesis title: Comparison of lactic acid bacteria and bifidobacteria from honey stomachs and honeycombs of Giant honey bee (*Apis dorsata* F.) in Kedah and Terengganu, Malaysia.

Ph.D: Department of Food Science, Faculty of Food Science and Technology, Universiti Putra Malaysia, 43400 Serdang, Selangor, Malaysia. (2011-2014).

Ph.D Thesis title: Development of Recombinant *Lactobacillus plantarum*-Harboring Glutamate Decarboxylase Gene and Its Application in Food Systems.

Position:

1. Head of Department of Honey bee, Animal Science Research Institute (ASRI), Karaj, Iran (2022-2024).
2. Research Scientist (honey bee), Animal Science Research Institute (ASRI), Karaj, Iran (1994- present).
3. “Researcher Senior Promoter” of honeybee in Agricultural Research, Education and Extension Organization – Iran (2016- present).
4. Head of Department of Honey bee, Animal Science Research Institute (ASRI), Karaj, Iran (2015-2019).
5. Head of the beekeeping station and internal manager of Department of Honey bee, Animal Science Research Institute (ASRI), Karaj, Iran (1999-2008).
6. Head of ISO/TC 34/SC 19 "Bee products" in Iran (2019- present).

Cooperation with the following universities since 2008:

1. Faculty of Agriculture, Bu Ali Sina University of Hamadan, Iran.
2. Faculty of Agriculture, Mazandaran University, Iran.
3. Faculty of Agriculture Urmia University, , Iran.
4. Faculty of Agriculture Zabol University, , Iran.
5. Faculty of Agriculture, Azad University, Tehran Research Sciences Branch, Iran.
6. Faculty of Food Industry, Azad University, Tehran Research Sciences Branch, Iran.
7. Faculty of Basic Sciences Azad University, Central Tehran Branch, , Iran.
8. Faculty of Agriculture, Azad University, Astara Branch, Iran.
9. Faculty of Agriculture, Azad University, Varamin Branch, Iran.
10. Faculty of Agriculture, Department of Agricultural Technology, University Putra Malaysia, Malaysia.
11. Faculty of Food Technology, Department of Food Biotechnology, University Putra Malaysia, Malaysia.
12. Faculty of Molecular Science, Department of Biotechnology, University Putra Malaysia, Malaysia.

Professional Membership:

- Iranian Honeybee Scientific Society, Tehran, Iran (2005- present).
- Member of the Central Committee of Iranian Honeybee Scientific Society, Tehran, Iran (2016- present).
- Member of the Research Council of the Iranian Animal Science Research Institute.
- Member of the Scientific and Technical Committee of the Iranian Animal Science Research Institute.
- Member and Chairman of the Technical Committee of the Honeybee Research Department, Iranian Animal Science Research Institute.
- Member of the Publications Committee of the Iranian Animal Science Research Institute (2015- present).
- Member of the Management Committee of the Grand Plan for the Development of the Use of Probiotics in Agricultural Industries (2020- present).
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- Malaysian Society for Microbiology (ICMSM), Malaysia (2008- present).
- Scientific Core Group of Iranian Students in Biotechnology and Genetics, Malaysia (2011- present).
- Iranian Society of Probiotic and Functional Foods (2014-present).

Recent Awards:

- **Tajabadi Naser.** Excellent Agricultural and Natural Resources Engineer of the Iranian Academy of Sciences in 2024.
- **Tajabadi Naser.** Top Researcher of the Ministry of Agriculture 2021.
- **Tajabadi Naser.** Top Technology of Agricultural Research, Education and Extension Organization 2019.
- Tahmasbi, Gh., M., Ebadi, R., Babae, M., **Tajabadi, N.**, Afrouzan, H., Rezaee, H., Seyifi, E., Mashayekhi, N. 2018. Performance and behavioral improvement of honeybee colonies in nongovernmental apiaries by using the Iranian bred queens, Second Laureate Applied Research, 31st Khwarizmi International Award.

- Best presented to **Naser Tajabadi**, Seyed Abdollah Hosseini, Faegheh Feizabadi for Novel probiotic “*Enterococcus faecium*” 3th National conference on Probiotic & Functional Food, 7-9 February 2016, Tehran, Iran.
- Silver medal for presented to: **Tajabadi, N.**, Mardan, M., Abdul Manap, M.Y., Shuhaimi, M. Meimandipour, A. and Nateghi, L. for the invention/ innovation of “Detection and identification of *Lactobacillus* bacteria found in the honey stomach of the Giant honey bee *Apis dorsata*” 17-19 July 2012, PRPI 2012 University Putra Malaysia.

Patent:

- “Queen Bee spawning guidance system for royal jelly production” 2019. Iran.
- Production and optimization of γ -aminobutyric acid by recombinant *Lactobacillus plantarum* with enhanced extracellular GAD activity and its application in food systems. 2014. Malaysia.

Academic and Research Experiences: (Honeybee, Probiotic bacteria, Microbiology, Food Biotechnology,)

1. Investigating the possibility of replacing “Zarnam sugar syrup” with white sugar in honey bee nutrition and its effect on its performance and parameters of honeybee (2024-2025)
2. In vivo evaluation of “progen” probiotic against *Nosema ceranae* (2022-2023).
3. Study of the effect of Bonzabee® mineral chelate supplement on quantitative and qualitative parameters of royal jelly of honey bee (2022-2023).
4. Investigating the role of honeybee and other pollinator insects in pollination of canola in Mazandaran province (2017-2018).
5. Effect of hygienic behavior in resistance of honey bee *Apis mellifera* L.(Hym.: Apidae) against the *Varroa* mite (2016-2017).
6. A selective breeding program for VSH and grooming behaviors in honey bee colonies resistant to *Varroa* mite (2016-2017).
7. Isolation and identification of Lactic Acid Bacteria (LAB) from gastrointestinal tract of honeybee *Apis mellifera* and *Apis florea* by using biochemical and molecular method (2015-2016).
8. The effect of probiotics in nutrition of honey bees on their gut microflora (2015-2016).

9. The effect of probiotics in nutrition of honey bees on honey production (2015-2016).
10. Honeybee breeding to improve over wintering trait of colonies in central provinces of Iran (Tehran, Markazi, Isfahan and Qazvin provinces) (2011-2015).
11. Honeybee breeding to improve the defence behavior of colonies in central provinces of Iran (Tehran, Markazi, Isfahan and Qazvin provinces) (2011-2015).
12. Honeybee breeding to improve the swarming trait of colonies in central provinces of Iran (Tehran, Markazi, Isfahan and Qazvin provinces) (2011-2015).
13. Development of Recombinant *Lactobacillus plantarum*- Harboring Glutamate Decarboxylase Gene and Its Application in Food Systems (2011- 2014).
14. Isolation and identification of LAB (probiotic bacteria) from honeycomb and honey stomach of honeybee (*Apis dorsata*) by using biochemical and molecular method (2008-2010).
15. The second and third phases of honey bee breeding and selection in the Central Alborz mountain area (2005-2008).
16. Effects of Neem extract on wax moth & *Varroa* mite (2000-2005).
17. Economic and Social survey on sericulture in Iran (2002-2003).
18. The survey on multivitamin effects on some silkworm characters (2000-2002).
19. The comparison Lab and Field tests in honey production (2000-2002).
20. Honey bee breeding and selection in the Central Alborz mountain area (1999-2002).
21. Phenotypic correlations between morphological and biological characters in central Iranian honey bee stock (1999-2001).
22. Feeding honey bees by supplements: proteins, carbohydrates, vitamins and minerals (1999-2001).
23. Effects of different vitamin C levels on brood rearing and honey production (1999-2001).
24. The comparison efficacy of inseminated and natural mated queens (1999-2001).
25. Main project on honeybee breeding in Iran (1998-2004).
26. The morphologic study on dwarf honey bee stocks in Iran (1997-1998).

27. Determine the phenotypic correlation between morphologic and biologic characters in Tehran province hives (1996-1998).
28. The study on kin's effects on some biologic and morphological characters in honey bees (1995-1997).

Holding training courses and workshops for researchers, students, experts and beekeepers:

- Basic and advanced beekeeping
- Honeybee nutrition
- How to use supplements and probiotics in honeybee nutrition
- A new method for producing royal jelly
- A new method for extracting honeybee venom
- Honeybee management and breeding

Workshops Attended:

1. Certificate of attended the “Review of honeybee diseases” present by **Dr. Fani Hatjina** in Second International and 10th National Iranian Honeybee Congress. January 22- 23, 2020, (Webinar). Animal Science Research Institute, Karaj, Iran.
2. Certificate of attended the “Sustainable honey bee breeding strategies” present by **Dr. Jeff Pettis** in Second International and 10th National Iranian Honeybee Congress. January 22- 23, 2020, (Webinar). Animal Science Research Institute, Karaj, Iran.
3. Certificate of attended the “Pests and diseases of honey bee” present by Prof. Dr. **Wolfgang Ritter**. First International and 9th National Iranian Honeybee Congress. 25th - 26th January, 2017 Karaj, Iran.
4. Certificate of attended the “Status and future of honey bee breeding” present by Prof. Dr. **Kaspar Bienefeld**. First International and 9th National Iranian Honeybee Congress. 25th - 26th January, 2017 Karaj, Iran.
5. Certificate of participation for the honey bee Queen rearing. 11-12 May 2016. Animal Science Research Institute, Karaj, Iran.
6. Certificate of participation for the Novel probiotic “*Enterococcus faecium*”. 3th National conference on Probiotic & Functional Food, 7-9 February 2016, Tehran, Iran.

7. Certificate of participation for the probiotics production benefits in the country. 3th National conference on Probiotic & Functional Food, 7-9 February 2016, Tehran, Iran.
8. Certificate of participation for the novel method for Royal Jelly production. 14-16 August 2015. Animal Science Research Institute, Karaj, Iran.
9. Certificate of presentation for the 11th AAA Conference and Apiexpo. 28 September-2 October 2012 Kuala Terengganu, Malaysia.
10. Certificate of participation for the Technique and Skill Improvement in using the 'Integrated' SAS and Excel Packages in Data handling, Statistical analysis, and the analysis output and presentation Workshop. 15-16 February 2012. Faculty of Medicine and Health Sciences, University Putra Malaysia.
11. Certificate of presentation for the National Bee Seminar and ApiExpo, 29 September-1 October 2011 Kuala Terengganu, Malaysia.
12. Certificate of presentation for the First Iranian Student's Scientific Conference in Malaysia. 9-10 April 2011, Kuala Lumpur, Malaysia.
13. Certificate of participation for Bioinformatics Applications in Agriculture. 28 February 2011. Faculty of Agriculture, University Putra Malaysia.
14. Certificate of presentation for the 7th Iranian Honeybee Seminar. 18th-19th January 2011, Karaj, Iran.
15. Certificate of participation for the 2nd International Conference on the Medicinal use of Honey. 13-15 January 2010. Kota Bharu, Kelantan, Malaysia.
16. Certificate of participation for the UPMISA International seminar. 5th January 2010. University Putra Malaysia International Students Association School of Graduate Studies and Centre for International Affairs, Malaysia.
17. Certificate of participation for the Endnote workshop. 19 May 2009. Faculty of Modern languages and communication, University Putra Malaysia.
18. Certificate of participation for the Publishing for postgraduates. 14-15 February 2009. School of Graduate Studies, University Putra Malaysia.
19. Certificate of participation for the DNA Markers: from Phenotype to Genotype. 2-3 February 2009. Faculty of science, University Putra Malaysia.
20. Certificate of participation for the Effective writing. 21-22 March 2009. Faculty of Modern languages and communication, University Putra Malaysia.

21. Certificate of participation for the 'ECOS' Transformation Technology. 26-27 March 2009. Department of Agriculture Technology, Faculty of Agriculture, University Putra Malaysia.
22. Certificate of participation for the International Congress of Malaysian Society for Microbiology. 1-4 December 2009 Penang, Malaysia.
23. Instrumental insemination of queen honey bee, Dr. Gencer (Turkey), ASRI, Karaj, Iran, 2003.
24. Bee genetics and breeding, Dr. K. Bienefeld (Germany), ASRI, Karaj, Iran, 1995.

Publications:

Book:

Bahreini, R., **Tajabadi, N.** 2020. Anatomy and physiology of the honey bee. 354 pp.

Technical instructions, handbook:

1. **Tajabadi, N.** Bahreini, R. 2023. Step-by-step instructions for a new method of producing royal jelly. 30 pp.
2. Parichehreh, Sh., **Tajabadi, N.** 2022. Instructions for isolating and maintaining symbiotic lactic acid bacteria in the honey bee digestive tract. 39 PP.
3. Rahimi, A., **Tajabadi, N.** 2021. Biology, distribution and control of the small hive beetle. 72 pp.
4. **Tajabadi, N.**, Bahreini, R. 2018. Small hive beetle: A serious threat to the country's beekeeping industry. 24 pp.

Journals:

Shadmehr, S., Chamani, M., **Tajabadi, N.**, Sadeghi, A.A., Seidavi, A. 2024. Effect of dietary supplement on the reproductive traits products and behavioral characteristics of the European honey bee *Apis mellifera*. Journal of Apicultural Research. doi.org/10.1080/00218839.2023.2293574

1. Tazekam, S., **Tajabadi, N.**, Nozari, J., Jafari Ahangari, Y. Mohseni Kafshgarkalai M.H. 2024. Isolation and identification of lactic acid-producing bacteria from honey of small honey bees in the southern regions of Iran. Quarterly Scientific Extension Journal of Bee Science and Technology. 15 (28) 10-18.
2. Rahimi, A., parichehreh, S., **Tajabadi, N.** An optimized DNA extraction protocol for Iranian honey bee. 2024. Quarterly Scientific Extension Journal of Bee Science and Technology. 14 (27) 49-59.
3. Rezvan, M., Dashab, Gr., Yousef Elahi, M., **Tajabadi, N.**, Shojaian, K., Behjatian Esfahani, M. 2023. Investigating the effect of sweet paste containing AVP-4 Nano-supplement on queen laying, population size and biochemical characteristics of the carcass in honey bee (*Apis mellifera*) colonies. Animal Science Journal (Pajouhesh & Sazandegi). 139, 123-134.
4. Moradi, A., Alipour, D., **Tajabadi, N.** 2022. Evaluation of probiotic potential of lactic acid bacteria isolated from bee gastrointestinal tract and their effect on some productive parameters of colonies. Iranian Journal of animal Science.53 (2) 97-107. doi.org/10.22059/ijas.2022.332030.653848
5. Filekesh, T., Dirandeh, E., Jafari Sayadi, A., **Tajabadi, N.** 2022. The effect of pollen cake feeding on the quantity and quality of Royal Jelly produced at 24, 48, 72 hours after larval transplantation in beehives. Veterinary Researches & Biological Products. 137. 98-103.
6. Rezaei, H., Tahmasbi, Gh., **Tajabadi, N.**, Parichehreh, Sh., Babaei, M., Mashayekhi-Sardoei, N., Seifi, E., Sartippoor, A. 2022. Evaluation of the performance of modified Iranian honey bee queens in private apiaries in Alborz province. 2022. Quarterly Scientific Extension Journal of Bee Science and Technology. 13 (25) 15-31.
7. Rahimi, A., **Tajabadi, N.**, Topchi, B., Bahmani, H.R., Salehi, S. 2022. Honeybee hibernation: its biology and management. Quarterly Scientific Extension Journal of Bee Science and Technology. 13 (25) 39-49.
8. Hatami, S., **Tajabadi, N.**, Massoud, R., Sharifan, A. 2021. Chemical and sensorial properties of probiotic beverage based on rice bran extract and honey. Biomass Conversion and Biorefinery. DOI: [10.1007/s13399-021-01500-2](https://doi.org/10.1007/s13399-021-01500-2)
9. Feizabadi, F., Sharifan, A., **Tajabadi, N.** 2020. Isolation and identification of lactic acid bacteria from stored *Apis mellifera* honey. Journal of Apicultural Research. DOI: [10.1080/00218839.2020.1765490](https://doi.org/10.1080/00218839.2020.1765490)
10. Parichehreh, Sh., Tahmasbi, Gh., Sarafrazi, A., Imani, S., **Tajabadi, N.** 2020. Distribution modeling of *Apis florea* Fabricius 1973 (Hymenoptera, Apidae) in different climates of Iran. 2020. Journal of Apicultural Research. DOI: [10.1080/00218839.2020.1775962](https://doi.org/10.1080/00218839.2020.1775962)
11. Parichehreh, Sh., Tahmasbi, Gh., Sarafrazi, A., Imani, S., **Tajabadi, N.** 2018. Isolation and identification of *Lactobacillus* bacteria found in the gastrointestinal tract of the dwarf

honey bee, *Apis florea* Fabricius, 1973 (Hymenoptera: Apidae). *Apidologie*, DOI: 10.1007/s13592-018-0569-z.

12. Shanehchian, M., **Tajabadi, N.**, Nateghi, L. 2018. The study of probiotic properties of *Enterococcus faecium* and *Lactobacillus kunkeei* isolated from honey and its possibility to application in apple juice and grape juice. *Applied Microbiology in Food Industries*. 3 (3) 53-64.
13. Ghorbani, N., Nateghi, L., **Tajabadi, N.** 2018. Investigating the possibility of using *Lactobacillus plantarum* and *Lactobacillus kunkeei* isolated from honey in the preparation of probiotic pomegranate juice. *Journal of Food Science and Technology*. 76 (15) 13-23.
14. Tahmasbi, Gh., Babaei, M., **Tajabadi, N.**, Seyfi, E., Mashayekhi, N., Rezazadeh. H. 2018. The performance of improved honey bee colonies obtained from the thirteenth generation of Iranian queens and control colonies in different apiaries of Iran. *Journal of Animal Production*, 19(4):739-751.
15. Parichehreh, Sh., Tahmasbi, Gh., Sarafrazi, A., Imani, S., **Tajabadi, N.** 2017. Identification of *Enterococcus* bacteria found in the gastrointestinal of the dwarf honey bee, *Apis florea* Fabricius, 1973 (Hymenoptera: Apidae). *Journal of Entomological Society of Iran*. 37 (2) 263-272.
16. **Tajabadi, N.**, Ebrahimpour, A., Baradaran, A., Rahim, R.A., Abdul Manap, M.Y. Baker F.A. and Saari, N. 2015. Production and optimization of γ -aminobutyric acid by *Lactobacillus Plantarum* Taj-Apis362 isolated from honeybees. *Molecules*, 20:6654-6669.
17. **Tajabadi, N.**, Baradaran, A., Ebrahimpour, A., Rahim, R.A., Abdul Manap, M.Y., Baker, F.A. and Saari, N. 2015. Overexpression and optimization of glutamate decarboxylase in *Lactobacillus plantarum* Taj-Apis362 as a starter culture for high GABA production. *Microbial Biotechnology*.8(4): 623–632.
18. Zarei, M., Ghanbari, R., **Tajabadi, N.**, Ebrahimpour, A., Abdul-Hamid, A., Abu Bakar F., Saari, N. 2016. Generation, fractionation and characterization of iron-chelating protein hydrolysate from palm kernel cake proteins. *Journal of Food Science*, 81(2):341-347.
19. **Tajabadi, N.**, Mardan, M., Saari, N., Shuhaimi, M., Bahreini, R. and Abdul Manap, M.Y.2013. Identification of *Lactobacillus plantarum*, *Lactobacillus pentosus* and *Lactobacillus fermentum* from honey stomach of honeybee. *Brazilian Journal of microbiology*, 44 (3): 717-722.
20. **Tajabadi, N.**, Mardan, M., Shuhaimi, M. and Abdul Manap, M.Y. 2013. Sequencing of the 16S rRNA Gene for identification of novel potential probiotic *Lactobacillus* isolated from the honeycomb of honeybee *Apis dorsata*. *Journal of Apicultural Research*, 55(5): 235-241.

21. Rasti, B., Selamat, J., Shuhaimi, M., Nateghi, L., Yik Yee, L., **Tajabadi, N.**, Meimandipour, A. and Manap. M.Y. 2013. Inhibition of *Clostridium scindens* and *Clostridium hiranonis* growth by *Bifidobacterium pseudocatenulatum* G4 in simulated colonic pH. Journal of Food, Agriculture & Environment, 11(2):127-131.
22. **Tajabadi, N.**, Mardan, M., Shuhaimi, M., Feizabadi, F., Nateghi, L. and Abdul Manap, M.Y. 2012. *Weissella* sp. Taj-Apis, a novel lactic acid bacterium isolated from honey. Journal of Food, Agriculture & Environment, 10 (2): 263-267.
23. Nateghi, L., Roohinejad, S., Totosaus, A., Rahmani, A., **Tajabadi, N.**, Meimandipour, A., Rasti, B. and Abdul Manap, M.Y. 2012. Physicochemical and textural properties of reduced fat Cheddar cheese formulated with xanthan gum and/or sodium caseinate as fat replacers. Journal of Food, Agriculture & Environment, 10 (2): 59-63.
24. Cobey, S., **Tajabadi, N.** and Bahrini, R. 2012. The Cloake Bord method of queen rearing. 4: 8-13. (In Persian).
25. **Tajabadi, N.**, Mardan, M., Abdul Manap, M.Y., Shuhaimi, M. Meimandipour, A. and Nateghi, L. 2011. Detection and identification of *Lactobacillus* bacteria found in the honey stomach of the Giant honeybee *Apis dorsata*. Apidologie 42 (5): 642-649.
26. **Tajabadi, N.**, Mardan, M., Abdul Manap, M.Y. and Shuhaimi, M. 2011. Isolation and identification of *Enterococcus* sp. from honey stomach of honeybee based on biochemical and 16S rRNA sequencing analysis. International Journal of Probiotic and Perbiotic, 6 (2): 95-100.
27. **Tajabadi, N.**, Mardan, M., Abdul Manap, M.Y., Shuhaimi, M. and Javanmard, A. 2010. Detection and identification of new potential probiotics bacteria from honey of the Giant honeybee *Apis dorsata* in highland of Malaysia. 2010. Journal of ApiProduct and ApiMedical Science 2(1): 46.
28. Tahmasbi, Gh, Kamali, M.A., Ebadi, R., Nejati Javaremi, A., Javaheri, D., Babaei, M., jamshidi, M., Akef, M. and **Tajabadi, N.** 2010. Comparison of improved honeybee queens of Iranian central region and control queens in different apiaries of Tehran, Isfahan, Markazi and Qazvin provinces. Research and Construction, 23 (1): 31-39 (In Persian).
29. **Tajabadi, N.**, Tavasolian, A. and Rezaii, H. 2005. Short history on honey bee knowledge (*Apis*) until 1800 B.C. Husbandry world, 3(11): 36-40 (In Persian).
30. Bahreini, R, Tahmasebi, Gh., **Tajabadi, N.** and Akhondi, M. 2005. The survey on geographical distribution of pests and predators of Tehran providence honey bees. Husbandry world, 3(10): 28-33 (In Persian).
31. Talebi, M., Bahreini, R. and **Tajabadi, N.** 2002. Effect of mulberry leaves moisture on some traits of silkworm. Sericologia, 42(2): 1-5.

32. Tahmasebi, Gh., Ebadi, R., **Tajabadi**, N., Akhondi, M. and Faraji, S. 2002. The geographical and climatically effects on dwarf honey bee population in Iran. *Agricultural Science and Natural Resource*, 6(2): 167-169 (In Persian).
33. Talebi, M., Bahreini, R. and **Tajabadi**, N. 2001. Effect of multivitamin on some traits of the Silkworm (*Bombyx mori* L.). *Research & Reconstruction*, 50: 50-53 (In Persian).
34. Talebi, M., Bahreini, R. and **Tajabadi**, N. 2001. Effect of vitamin C on some traits of the Silkworm (*Bombyx mori* L.). *Research & Reconstruction*, 55: 92-94 (In Persian).

Presentation in Conference Proceedings:

1. **Tajabadi**, N. Production of bee products in Iran. First National Symposium on Honeybee Food and Medicinal Products. Shahid Beheshti University 2025 - Iran.
2. **Tajabadi**, N. The growing trend of the beekeeping industry in Iran and the latest research in the honeybee sector. World Bee Day. Institute of Nutrition and Food Science 2024 – Tehran - Iran.
3. **Tajabadi**, N. The use of probiotics in honeybee nutrition. 5th International Conference on Probiotics and Functional Foods. Institute of Nutrition and Food Science 2023 – Tehran - Iran.
4. **Tajabadi**, N. The role and importance of probiotics in honeybees. 10th National Congress and the 2nd International Congress of Iranian Animal Sciences. University of Tehran 2023 – Iran.
5. **Tajabadi**, N. Study of the probiotic properties of *Lactobacillus plantarum* and *Lactobacillus kanekei* isolated from honey. Third International Congress and the Eleventh Iranian Honey Bee Research Congress, Karaj, Iran. January 25- 26, 2023.
6. Moradi, A., Alipour, D., **Tajabadi**, N. Study of the diversity of lactic acid bacteria isolated from honey and the digestive tract of honey bees, the probiotic potential of the isolates, and their effect on some functional and qualitative parameters of colonies. Third International Congress and the Eleventh Iranian Honey Bee Research Congress, Karaj, Iran. January 25-26, 2023.
7. Sahraei, M., Abraghani, A., **Tajabadi**, N. Evaluation of the effects of honey bee hive insulation on their overwintering index in Ardabil Province. Third International Congress and the Eleventh Iranian Honey Bee Research Congress, Karaj, Iran. January 25- 26, 2023.
8. Shadmehr, S., Chamani, M., **Tajabadi**, N., Sadeghi, A.A., Seidavi, A. The effect of different levels of dietary supplementation on reproductive traits, production and behavioral characteristics of European honey bees (*Apis mellifera*). Third International

Congress and the Eleventh Iranian Honey Bee Research Congress, Karaj, Iran. January 25-26, 2023.

9. Basiri, M.R., Tahmasebi, Gh., **Tajabadi, N.**, Sartippour, A., Parichehre, S. Study of the performance of queens of the comprehensive breeding plan (third layer) in Isfahan province. Third International Congress and the Eleventh Iranian Honey Bee Research Congress, Karaj, Iran. January 25- 26, 2023.
10. Rezvan, M., Dashab, Gr., Yousef Elahi, M., **Tajabadi, N.**, Shojaian, K., Behjatian Esfahani, M. Evaluation of the effects of nanosupplements containing macro and micronutrients on the functional and biochemical characteristics of the queen honey bee (*Apis mellifera*). Third International Congress and the Eleventh Iranian Honey Bee Research Congress, Karaj, Iran. January 25- 26, 2023.
11. Rezvan, M., Dashab, Gr., Yousef Elahi, M., **Tajabadi, N.**, Shojaian, K., Behjatian Esfahani, M. Studying the effect of sweet paste containing AVP-4 supplement on queen egg laying rate, population size and carcass biochemical characteristics in honey bee colonies (*Apis mellifera*). Third International Congress and the Eleventh Iranian Honey Bee Research Congress, Karaj, Iran. January 25- 26, 2023.
12. Sahraei, M., Abraghani, A., **Tajabadi, N.**, Tahmasebi, Gh. Studying the performance of modified queens in public apiaries in Guilan Province. Third International Congress and the Eleventh Iranian Honey Bee Research Congress, Karaj, Iran. January 25- 26, 2023.
13. Sahraei, M., Abraghani, A., **Tajabadi, N.**, Tahmasebi, Gh. Research on the performance of modified queens in public apiaries in Ardabil province. Third International Congress and the Eleventh Iranian Honey Bee Research Congress, Karaj, Iran. January 25- 26, 2023.
14. **Tajabadi, N.** Piri H, Razzaqi Kamroudi M, Ahangari M, Rezaei H, Safabakhsh M.R Nouri S.A, Soleimani A, Imani A, Nemati S.A, Ardeshir F. Role of honeybee in pollination of canola. 47th Apimondia International Apicultural Congress 2022 – Turkey.
15. **Tajabadi, N.** Feizabadi F, Tajabadi Ebrahimi F, Tajabadi H. "Progen" probiotic specific to honey bees. 47th Apimondia International Apicultural Congress 2022 – Turkey.
16. Rezaei1, H., Tahmasbi, Gh., **Tajabadi, N.**, Parichehreh, Sh., Babaei, M., Mashayekhi-Sardoei, N., Sartippour, A. Performance Evaluation of Improved Iranian Honeybee Queens in Private Apiaries in Alborz Province. 47th Apimondia International Apicultural Congress 2022 – Turkey.
17. Raygan, O., **Tajabadi, N.**, Razm Kabir, M., Hashemi, A., Ghaffari, M. Comparison of the performance of four honey bee breeds (Carnica, Itai, Meda and hybrid of Meda and Carnica) in the mountainous regions of western Iran (Kurdistan Province) - brooding behavior trait. 1st National Congress on the role of honeybees in food security and national development. 2022. Urmia- Iran.

18. Moradi, A., Alipour, D., **Tajabadi, N.** Investigating the probiotic potential of lactic acid bacteria isolated from the honey bee digestive tract and their effect on some functional parameters of honey bee colonies. 1st National Congress on the role of honeybees in food security and national development. 2022. Urmia- Iran.
19. **Tajabadi, N.** Tahmasbi Gh, Seyfi E, Rezaei H, Ameli M. Effect of probiotics in nutrition of honey bees on their gut microflora. Second International and 10th National Iranian Honeybee Congress, Karaj, Iran. January 22- 23, 2020.
20. **Tajabadi, N.** Tahmasbi, Gh, Mashayekhi N., Rezaei, H., Feizabadi, F. Effect of Dietary Probiotics on Honey Production in Honey bees. Second International and 10th National Iranian Honeybee Congress, Karaj, Iran. January 22- 23, 2020.
21. Parichehreh, Sh., Tahmasbi Gh., Sarafrazi, A., **Tajabadi, N.** Geographical distribution of symbiotic probiotics in gastrointestinal tract of dwarf honeybee (*Apis florea*) in Iran. Second International and 10th National Iranian Honeybee Congress, Karaj, Iran. January 22- 23, 2020.
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Deposits in National Center for Biotechnology Information (NCBI)

A. Novel Genus of lactic acid bacteria (LAB)

A.1. *Lactobacillus kunkeei*: Isolates name and Gen bank accession numbers [1. Taj Hadi (GQ451610), 2. Mardan Naser (GQ451616), 3. Tajabadi Naser (GQ451631), 4. Mardan Arash (GQ451623)].

A.2. *Lactobacillus sp*: Isolates name and Gen bank accession numbers [1. Taj Naser (GQ451611), 2. Tajabadi (GQ451612), 3. Makhdzir Naser (GQ451633), 4. Yazid Taj (GQ451619)].

A.3. *Lactobacillus vermiform*: Isolate name and Gen bank accession number [Naser Mardan (GQ451615)].

B. Novel Species of lactic acid bacteria:

B.1. *Lactobacillus*

B.1.1 *Apilactobacillus kunkeei*: Isolates name and Gen bank accession numbers [1. Mardan Taj (GQ451613), 2. Naser Faegheh (GQ451636), 3. Rasoul Bahreini (GQ451650), 4. Arash Taj (GQ451641), 5. Leana Mardan (GQ451642),].

B.1.2. *Lactobacillus sp*: Isolates name and Gen bank accession numbers [1. Taj Mahdi (GQ451639), 2. Dilah Makhdzir (GQ451645), 3. Faegheh Hadi (GQ451647), 4. Taj Mar (GQ374178), 5. Hadi Tajabadi (GQ451648)].

B.2.: *Weissella* sp Isolate name and Gen bank accession number [Taj-Apis (GU233465)].

C. Novel Strain of lactic acid bacteria:

C.1 *Lactobacillus*

C.1.1 *Apilactobacillus kunkeei*: Isolates name and Gen bank accession numbers [1. Taj-KH 110 (GU233464), 2. Taj Mardan (GQ451606), 3. Taj Arash (GQ451608), 4. Taj-KH 107 (GU233461), 5. Yazid Naser (GQ451617), 6. Yazid Mardan (GQ451618), 7. Taj Arash (GQ451608), 8. Adi Mardan (GQ451643) 9. AFPSH5 (KU359943), 10. AFPSH6 (KU359944), 11. AFPSH7 (KU359945), 12. AFPSH8 (KU359946), 13. AFPSH9 (KU359947), 14. Hadi Faegheh (GQ451646), 15. Taj Faegheh (GQ451635), 16. Taj Reza (GQ451640), 17. Yazid Mustafa (GQ451620),].

C.1.2. *Lactobacillus alvei*: Isolate name and Gen bank accession number [Taj-Dorsata (HM027641)].

C.1.3. *Lactobacillus sp*: Isolates name and Gen bank accession numbers [1. Taj Mustafa (GQ451609), 2. Mardan Naser (GQ451616), 3. Makhdzir Mardan (GQ451624), 4. Shuhaimi Mardan (GQ451628), 5. Taj-KH 107 (GU233461), 6. Taj-KH 109 (GU233463), 7. Naser Makhdzir (GQ451634), 8. Taj-KS164 (GU233457), 9. Taj-KS82 (GU233460), 10. Arif Mardan (GQ451644), 11. Dorsata (GU233459), 12. Faegheh Dilah (GQ451649), 13. Hadi Naser (GQ451632), 14. Makhdzir Dilah (GQ451637), 15. Mardan Mustafa (GQ451622), 16. Mardan Yazid (GQ451614), 17. Mardanium (GU233458), 18. Shuhaimi Arash (GQ451630), 19. Shuhaimi Naser (GQ451626), 20. Shuhaimi Taj (GQ451627), 21. Shuhaimi Yazid (GQ451629), 22. Taj Amir (GQ451638), 23. Taj Yazid (GQ451607), 24. Taj-KH123 (GU233462), 25. Yazid Arash (GQ451621)].

C.1.4. *Lactobacillus plantarum*: Isolates name and Gen bank accession numbers [1. Taj-Apis 362 (HM027644), 2. Taj-Honey 366 (HM027639), 3. T1 (KU512757)].

C.1.5. *Lactobacillus pentosus*: Isolates name and Gen bank accession numbers [1. Taj-Honey 341 (HM027640), 2. Taj-Apis 359 (HM027643)].

C.1.6. *Lactobacillus fermentum*: Isolate name and Gen bank accession number [Taj-Apis 396 (HM027642)].

C.1.7. *Lactiplantibacillus pentosus*: Isolates name and Gen bank accession numbers [FST1 (MK478926)].

C.1.8. *Lactiplantibacillus plantarum*: Isolates name and Gen bank accession numbers [1. AFPSH2 (KU318418), 2. AFPSH3 (KU359941), 3. FST2 (MK478939), 4. FST3 (MN309857), 5. FST8 (MK478932), 6. MA8 (MW405442), 7. T1 (KU512757),

C.1.9. *Lactiplantibacillus apis*: Isolates name and Gen bank accession numbers [AFPSH4 (KU359942)].

C.1.10. *Levilactobacillus brevis*: Isolates name and Gen bank accession numbers [**1.** NST1 (MK478893), **2.** NST3 (MK478849),

C.2. *Bifidobacterium*

C.2.1. *Bifidobacterium pseudocatenulatum* Isolates name and Gen bank accession numbers [**1.** Taj-401(HM027651), **2.** Taj-421 (HM027652)].

C.3. *Enterococcus*

C.3.1. *Enterococcus sp*: Isolates name and Gen bank accession numbers [**1.** Taj-KS29 (HM027647), **2.** Taj-KH5 (HM027646), **3.** Taj-TS315 (HM027648), **4.** Taj-TS329 (HM027649), **5.** Taj-TS355 (HM027650), **6.** FST5 (MK478931),].

C.3.2. *Enterococcus faecalis*: Isolate name and Gen bank accession number [**1.** Taj-KH119 (HM027645), **2.** AFPSH10 (KU359948)].

C.3.3. *Enterococcus faecium*: Isolates name and Gen bank accession numbers [**1.** FST4 (MK478929), **2.** FST7 (MN309863) **3.** AFPSH11 (KU359949), **4.** AFPSH12 (KU359950), **5.** AFPSH13 (KU359951)].

C.3.4. *Enterococcus hirae*: Isolates name and Gen bank accession numbers [**1.** AFPSH14 (KU359952), **2.** FST6 (MK478930)].

C.4. *Pediococcus*

C.4.1. *Pediococcus acidilactici*: Isolates name and Gen bank accession numbers [**1.** MA2 (MW376202), **2.** MA3 (MW376564), **3.** MA4 (MW376601), **4.** MA5 (MW376904), **5.** MA7 (MW405415), **6.** MA10 (MW405456), **7.** MA11 (MW405457), **8.** MA13 (MW405512), **9.** NST-Sarhadi (MK478892)].

C.4.2. *Pediococcus pentosaceus*: Isolates name and Gen bank accession numbers [**1.** MA1 (MW375996), **2.** MA9 (MW405455), **3.** NST2 (MK478888)].

C.4.3. *Pediococcus sp*: Isolates name and Gen bank accession numbers [**1.** MA12 (MW405487), **2.** MA14 (MW405566)].

D. Complete cds:

D.1. *Lactobacillus plantarum* Taj-Apis362 glutamate decarboxylase (*gadB*) gene, complete cds. Gen bank accession number [KF770955].

Updated: April 2025