

**ICAR – INDIAN INSTITUTE of SUGARCANE RESEARCH
LUCKNOW 226002, UTTAR PRADESH**

Personal Information

Name Dr. Arun Baitha			
Designation	Principal Scientist (Agricultural Entomology)		
Division/Section	Crop Protection		
Research Area	1. Biological Control of Sugarcane Pests 2. Push Pull Technology/Conservation of Bio-agents 3. Mass Multiplication of Bio-agents 4. Integrated Pests Management in Sugarcane		
Patent Details/Copy rights			
Raj,C.,Singh,S.,Sushil,S.N.,Baitha,A.,Hasan,S.S.,Modi,R and Rathod,K.K.2022.Image Database of Sugarcane Insect, Pest and Diseases (L-117221/2022)			
Personal Details			
Dr Arun Baitha Principal Scientist (Agricultural Entomology) Division of Crop Protection ICAR- Indian Institute of Sugarcane Research Lucknow P.O Dilkusha – 226002,U.P.,India Email: Arun.Baitha@icar.gov.in ; arunbaitha@rediffmail.com Mobile: 9415755261			
External Funded Projects			
Evaluation and standardization of organic farming techniques for sugarcane production system	Co-PI	10.83	UP Council of Agri. Research
Bio-efficacy testing of Chlorantraniliprole (Rynaxypyr)35% WG against top, stalk and internode borer in sugarcane	PI	10.00	DuPont India Pvt.Ltd.

Establishment of Biological Control Laboratory for Mass Production of Bio-agents against Sugarcane Insect Pests and Disease and Dissemination of Technology for Enhanced cane and Sugar Productivity in Maharashtra	Co-PI	501.82	RKVY, Govt. of Maharashtra
Efficacy of E2Y45-600Sc against major insect-pests of Sugarcane	Co-PI	15.0	FMC India Pvt.Ltd.

Publications

Research Papers

1. Baitha, A., Jaiswal, A.K. and Kumar, A. 2022. Distribution pattern of protective silken discs weaved by larvae of sugarcane top borer *Scirpophaga excerptalis* (Walker). *Indian Journal of Entomology*. DoI: 5958/IJE.2021.143 (Online publication).
2. Baitha, A., Mishra, A.K., Kurre, D., Bareliya, P.K. and Kumar, A. 2022. Record of *Isotima* sp. (Hymenoptera: Ichneumonidae) from pink borer, *Sesamia inferens* (Walker). *Insect Environment*, **25**(2):228-232. (DOI:10.55278/WWXJ6156).
3. Baitha, A., Singh, M.R. and Kumar, A. 2021. Silken discs weaved by larva of sugarcane top shoot borer, *Scirpophaga excerptalis* (Walker) (Crambidae: Lepidoptera). *Ann.Pl.Protec.Sci.* **29**(2): 171-172.
4. Baitha, A., Tripathi, G. M., Singh, M.R. and Roy S. 2021. Status of invasive woolly aphid management on sugarcane in India. *Hexapoda*, **28**(1&2):94--102.
5. Kumar, A., Baitha, A. and Kumar, A. 2021. Response of pupal weight of stalk borer, *Chilo auricilius* Dudgeon (Crambidae: Lepidoptera) on biology of *Tetrastichus howardi* (Olliff) (Hymenoptera: Eulophidae). *Insect Environment*, **24**:63-69.
6. Kumar, A., Baitha, A., Jaiswal, A.K., Roy, S., Kumar, A. and Kumar, A. 2021. The impact of adult nutrition on reproductive potential of *Tetrastichus howardi* (Olliff) (Hymenoptera: Eulophidae) on pupae of sugarcane top borer. *Ann.Pl.Protec.Sci.* **29**(1):74-76.
7. Kumar, A., Baitha, A., Jaiswal, A.K., Sushil, S.N. and Kumar, A. 2021. Effect of adult nutrition on biological attributes of *Tetrastichus howardi* (Olliff) (Hymenoptera: Eulophidae) on pink borer, *Sesamia inferens*. *Journal of Eco-friendly Agriculture*, **16**(2): 181-183.
8. Roy, S., Jaiswal, A.K., Sushil, S.N., Baitha, A., Roy, M.M. 2019. Landscape-based habitat engineering for sugarcane ecosystem: A Green Technological Option for Pest Management. *Sugar Tech*, **21**(2):213-226. (DOI 10.1007/s12355-019-00705-0).
9. Baitha, A., Kumar, A., Jaiswal, A.K., Roy, Sharmila, Singh, M.R., Kumar, A., Kumar, A. and Kajla, A. 2019. A note on *Tetrastichus howardi* (Olliff) (Hymenoptera: Eulophidae) on pupa of pierid butterfly, *Catopsilia pyrenthe* (Lepidoptera: Pieridae)-A first report. *Hexapoda*, **26**(1&2):44-47.
10. Baitha, A., Jaiswal, A.K., Kumar, A. and Kumar, A. 2018. Observations on protective silken disc numbers in pupal chamber of sugarcane top shoot borer, *Scirpophaga*

excerptalis (Walker) (Crambidae: Lepidoptera). *Hexapoda (Insecta indica)* 25(1&2): 1-4.

11. Baitha, A., Sushil, S.N., Kumar, A., Kumar, A and Maurya, B.L.2018. Superparasitism in natural population of *Trichogramma chilonis* Ishii (Trichogrammatidae: Hymenoptera) on eggs of sugarcane internode borer. *Hexapoda (Insecta indica)* 25(1&2):25-11.
12. Singh,M.R.,Duttamajumder,S.K.,Pathak,A.D.,Baitha,A.,Singh,S.N.,Singh,S.R and Srivastava,N.2018.Occurrence of delphacid plant hopper.*Eoeurysa flavocapitata* Muir on sugarcane in western Uttar Pradesh.). *Indian J. Sugarcane Technol.*, 33 (02): 94-95.
13. Baitha, A and Singh, B.D.2018. Gregarious phase of Plassey borer, *Chilo tumidicostalis* in Sugarcane.*Ann.Pl.Protec.Sci.*26 (1): 219-220.
14. Kumar, A., Baitha, A and Bareliya P.K.2018.Progeny and sex allocation of *Tetrastichus howardi* on sugarcane pink borer. *Ann.Pl.Protec.Sci.*26 (1): 213-214.
15. Kumar, A., Baitha, A., Pandey R.K and Bareliya P.K.2016.Biological attributes of *Tetrastichus howardi* (Olliff) on sugarcane top borer *Scirpophaga excerptalis* Walker under variable exposure regime. *J.Sugarcane Research*, 6(2):127-131.
16. Baitha, A; Tripathi, G.M; Lal, R.J and Nigam R.2017. A note on parasitisation of top borer by *Isotima javensis* Rohwer (Hymenoptera: Ichneumonidae) *Int.J.Agril.Inv.*2 (1):82-84.
17. Sushil,S.N.,Joshi,D.,Tripathi,G.M.,Singh,M.R.,Baitha,A.,Rajak,D.C., Solomon, S.2017. Exploring efficacious microbial bio-agents and insecticides against white grubs in sugarcane in indo-gangetic plains. *Sugar Tech*, DOI 10.1007/s12355-017-0556-0.
18. Baitha, A., Srivastava, D.C and Singh, M.R.2017. A Note on *Telenomus dignus* (Gahan) (Scelionidae: Hymenoptera): on eggs of sugarcane internode borer, *Chilo sacchariphagus indicus* (Kapur).*Hexapoda (Insecta indica)* 24(1&2):16-20.
19. Roy, S., Roy, M.M., Jaiswal, A.K. and Baitha, A.2018.Soil arthropods in maintaining soil health: thrust areas for sugarcane production system. *Sugar Tech* 20(4):376-391.
20. Baitha, A; Lal, R.J.; Maurya, B.L and Nigam, R.2016.Bio-intensive management of internode borer (*Chilo sacchariphagus indicus* Kapur) and stalk borer (*Chilo auricilius* Dudgeon).*Int.J.Agril.Inv.*1 (1):80-83.
21. Kumar, A and Baitha, A.2016.Biological parameters of *Tetrastichus howardi* influenced by ages of females on pupae of *Scirpophaga excerptalis*.*Ann.Pl.Protec.Sci.*24 (2):422-423.
22. Kumar, A., Baitha, A; Pandey R.K., Bareliya, P. K and Kumar A.2016.Effect of female vs. male pupa of *Scirpophaga excerptalis* Walker on reproductive potential of *Tetrastichus howardi* (Olliff) (Hymenoptera: Eulophidae).*Agrica* 5:102-105.
23. Baitha, A and Varma, A.2016. Field population dynamics of *Trichogramma chilonis* on eggs of sugarcane internode borer. *Ann.Pl. Protec.Sci.* 24(1):86-88.
24. Baitha, A and Tripathi G.M.2016.Field parasitisation of top borer larva by *Rhaconotus*

scirpophagae Wilkinson *Ann.Pl. Protec.Sci.* **24**(1):178-179.

25. Kumar, A., Baitha, A and Bareliya, P. K.2016.Some biological aspects of pupal parasitoid, *Tetrastichus howardi* (Olliff) (Hymenoptera: Eulophidae) on *Chilo auricilius* (Dudgeon) pupae. *Current Biotica* **10**(2): 70-74.
26. Baitha, A., Varma, A and Srivastava, D.C.2016.Fertility life table attributes of *Trichogramma chilonis* Ishii (Hymenoptera: Trichogrammatidae) strain reared from sugarcane early shoot borer. *Current Biotica*, **10** (3): 214-219.
27. Baitha, A., Varma, A and Srivastava, D.C.2016. Growth rate pattern of wild strains of *Trichogramma chilonis* Ishii (Hymenoptera: Trichogrammatidae) from sugarcane agro ecosystem. *Hexapoda (Insecta indica)*, **23**(1 & 2):19-25.
28. Baitha, A., Singh, M.R and Singh, B.D.2016. Biological notes on Plassey borer *Chilo tumidicostalis* Hampson (Lepidoptera: Crambidae) in sugarcane. *J.Sugarcane Research*, **6**(2):123-126.
29. Baitha, A and Varma, A.2015.Growth rate attributes of wild strain of *Trichogramma chilonis* Ishii (Hymenoptera: Trichogrammatidae) reared from sugarcane top borer. *Hexapoda (Insecta indica)*, **22**(1 & 2):13-17.
30. Baitha, A., Varma, A., Singh, M.R and Maurya, B.L.2015.Sex ratios of gregarious vs. solitary parasitoid on egg of sugarcane internode borer, *Chilo sachhariphagus indicus* (Kapur).*Hexapoda (Insecta indica)*, **22**(1 & 2):69-74.
31. Hasan,S.S.,Solomon,S.,Baitha,A.,Singh,M.R.,Sah,A.K.,Kumar,R and Shukla,S.K. 2014.CaneDes:A Web-Based Expert System for Disorder Diagnosis in Sugarcane. Sugar Tech DOI 10.1007/s12355-014-0341-2 (Online 11 October 2014).
32. Hasan, S.S., Baitha, A., Singh, M.R., Sah, A.K., Kumar,R and Shukla, S.K.2014.Diagnosis of disorders in sugarcane (*Saccharum officinarum*) with web-based expert system. *Current Advances in Agricultural Sciences* **6**(2):148-153 (December 2014)
33. Hasan, S.S., Kumar R., Shukla, S.K., Baitha, A., Sah, A.K., Singh, S.N., Kumar, S.2010.Expert System for decision support in sugarcane domain. *Indian.J.Sugarcane.Tech.* **25**(1&2): 93-96.
34. Baitha, A.2013. Biological observations on field collected strain of *Trichogramma chilonis* Ishii at fluctuating and constant temperatures. *Insect Environment*, **18** (3&4): 51-53.
35. Baitha, A.2012. Co-existence of *Trichogramma chilonis* Ishii and *Telenomus dignus* (Gahan) on egg masses of sugarcane internode borer. *Insect Environment*, **18** (1&2):41-43.
36. Baitha, A and Maurya, B.L.2012. Reproductive biology of *Tetrastichus howardi* (Olliff) (Hymenoptera: Eulophidae): a gregarious pupal parasitoid. *Indian J. Sugarcane Technol.* **27** (2): 59-61.
37. Baitha, A. and Varma, A.2012. Assessment of quality attributes of tropical and subtropical laboratory reared strains of *Trichogramma chilonis* Ishii). *Indian J.*

Sugarcane Technol. 27 (2): 98-99.

38. Baitha, A., Sinha, O.K., Maurya, B.L. and Rajak, D.C.2011.Age preference of females on biological attributes in *Tetrastichus howardi* (Olliff) (Eulophidae: Hymenoptera). *J.Plant Prot. & Environ.* **8**(1):45-48.
39. Baitha, A., Tripathi, G.M.and Maurya, B.L.2011.A Biological observation on *Stenobracon nicevillei* (Bingham) (Braconidae: Hymenoptera), a larval parasite of sugarcane top borer. *J.Plant Prot. & Environ.* **8**(2):103-105.
40. Srivastava, D.C., Baitha, A., Singh, M.R and Bajpai, P.K.2010.Natural parasitisation and incidence of sugarcane top borer, *Scirpophaga excerptalis* Walker. *International Sugar Journal*, **114** (1359):197-203.
41. Baitha, A. 2007. Spatial Distribution of *Pyrilla perpusilla* Walker and their Parasitoids. *Insect Environment*, **13** (3): 103-104.
42. Baitha, A. 2007. Survival and Adult Emergence of *Tetrastichus howardi* (Olliff) (Eulophidae: Hymenoptera) Under Field Conditions. *Insect Environment*, **13** (3): 108-110.
43. Baitha, A.2007.Management of insect-pests in sugarcane seed crop. *Indian.J.Sugarcane.Tech.* **22**(1&2): 56-57.
44. Baitha, A and Sinha, O.K. 2005.Intrinsic rate of natural increase of *Tetrastichus howardi* on *Chilo auricillius*. *Ann.Pl.Protec.Sci.* **13**(2): 468-470.
45. Alvarez, J.F., Naranjo, F., Grillo, H. and Baitha, A.2005.Interaction of *Lixophaga diatraeae* (Townsend) and *Tetrastichus howardi* (Olliff.) for management of *Diatraea saccharalis* (Fab.) in Cuba. *Sug.Tech.* **7**(2 &3): 5-8.
46. Srivastava, S., Singh, V., Gupta, Prasant S., Sinha, O.K and Baitha, A.2006.Nested-PCR assay for detection of sugarcane grassy shoot phytoplasma in leafhopper vector *Deltocephalus vulgaris* Dash & Viraktamath: A first report. *Plant Pathology* (UK), **55**:25-28.
47. Baitha, A. 2005. Growth rate differences of wild vs. laboratory-reared sugarcane adapted strains of *Trichogramma chilonis* Ishii (Hymenoptera: Trichogrammatidae). *Sug.Tech.* **7**(2 &3): 53-56.
48. Baitha, A. 2005. Effect of parasite density on longevity, fecundity and sex ratio of *Trichogrammatoidea* sp. nr. *armigera* (Hym: Trichogrammatidae) Nagaraja. *Insect Environment*, **11**(2): 68-70.
49. Singh, V., Baitha, A and Srivastava, Sangeeta. 2005. Young and fast growing plants as better feeding material for the *Deltocephalus vulgaris* a leafhopper vector of sugarcane grassy shoot phytoplasma.*Sug.Tech.* **7**(2 &3): 87-88.
50. Baitha, A., Jalali, S.K., Rabindra, R.J.Venkatesan, T. and Rao, N.S.2004.Parasitising efficiency of the pupal parasitoid, *Tetrastichus howardi* (Olliff) (Hymenoptera: Eulophidae) on *Chilo partellus* (Swinhoe) at different exposure periods.*J.Biol.Control.* **18**(1): 65-68.
51. Baitha, A., Jalali, S.K., Rabindra, R.J.Venkatesan, T. Rao, N.S and Lalitha,

- Y.2004.Effect of parasitoid-host ratio on some biological attributes of *Tetrastichus howardi* (Olliff) (Hymenoptera: Eulophidae), *Entomon.* **29** (2): 125-128.
52. Baitha, A. and Sinha, O.K.2004.Differential response of host pupae of sugarcane borers on the parasitization and reproduction of *Tetrastichus howardi* (Olliff.) (Hymenoptera: Eulophidae). *Indian.J.Sugarcane.Tech*, **19**(1&2): 90-91.
 53. Baitha, A., Jalali, S.K., Rabindra, R.J.Venkatesan, T. and Rao, N.S.2003.Parasitising efficiency of egg parasitoid, *Trichogramma japonicum* Ashmead at four temperature regimes. *Ann. Pl. Protec.Sci.***11** (2): 185-188.
 54. Baitha, A and Varma, A.2003. Growth rate of sugarcane adapted strain of *Trichogramma chilonis* Ishii (Hymenoptera: Trichogrammatidae). *J.Biol.Control*, **17** (2): 175-178.
 55. Baitha, A., Jalali, S.K., Rabindra, R.J.Venkatesan, T. and Rao, N.S.2003.Host preference of the pupal parasitoid, *Tetrastichus howardi* (Olliff) (Hymenoptera: Eulophidae). *J. ent. Res*, **27** (4): 293-296.
 56. Singh, V., Baitha, A and Sinha, O.K. 2002. Transmission of grassy shoot disease of sugarcane by a leafhopper (*Deltocephalus vulgaris* Dash& Viraktamath). *Indian J. Sugarcane Technol.* **17** (1&2): 60-63.
 57. Baitha, A and Sinha, O.K. 2002.Response of *Trichogramma chilonis* Ishii to different colours of trichocard. *Indian.J.Sugarcane.Technol.* **17**(1&2): 64-67.
 58. Baitha, A and Atma Ram. 2001. Effect of temperature on *Trichogrammatoidea* sp. nr. *armigera* Nagaraja (Trichogrammatidae: Hymenoptera). *Ann. Pl. Protec.Sci.***9** (1): 134 –135.
 59. Baitha, A., Hameed, S.F and Singh, R. 2000.Effectiveness and economics of various treatments and their impact on spider population in rice ecosystem. *Ann. Pl. Protec. Sci.* **8** (1): 13-16.
 60. Baitha, A., Hameed, S.F and Singh, R.2000. Relative toxicity of neem products and insecticide against the larvae of rice leaf folder. *Indian J. Ent.* **62** (1): 66-68.
 61. Baitha, A., Hameed, S.F. and Singh, R.2000. Evaluation of neem products and insecticides on the grain yield of rice. *Indian J. Ent.* **62** (2): 168-170.
 62. Baitha, A and Atma Ram. 2000. Notes on sex ratio and developmental period of *Trichogrammatoidea* sp. nr. *armigera* Nagaraja.*Indian J. Ent.* **62** (2): 221-222.
 63. Baitha, A and Atma Ram.2000. Studies on oviposition behaviour of *Trichogrammatoidea* sp. nr. *armigera* Nagaraja. *Indian J. Ent.* **62** (3): 270-273.
 64. Baitha, A and Atma Ram. 1999. Effects of adult nutrition on longevity and fecundity of *Trichogrammatoidea* sp. nr. *armigera* Nagaraja (Trichogrammatidae: Hymenoptera). *Shashpa*, **6** (2): 185-186.
 65. Baitha, A and Atma Ram. 1998. Effect of temperature and relative humidity on the biology of *Trichogrammatoidea* sp. nr. *armigera* Nagaraja (Hymenoptera: Trichogrammatidae), an egg parasitoid of *Helicoverpa armigera* (Hub.) (Noctuidae:

Lepidoptera) *Shashpa*, 5 (2): 165-170.

66. Baitha, A and Atma Ram. 1998. Life table studies on *Trichogrammatoidea* sp. nr. *armigera* Nagaraja (Trichogrammatidae: Hymenoptera), an egg parasitoid of *Helicoverpa armigera* (Hub). *Indian.J. Ent.* **60** (3): 250-257.
67. Baitha, A and Atma Ram. 1998. Studies on superparasitism in *Trichogrammatoidea* sp. nr. *armigera* Nagaraja (Trichogrammatidae: Hymenoptera) *Indian. J. Ent.* **60** (3): 311-312.
68. Baitha, A and Atma Ram. 1997. Effect of cold storage on the biology of *Trichogrammatoidea* sp. nr. *armigera* Nagaraja (Trichogrammatidae: Hymenoptera). *Shashpa*, 4 (2): 169-170.
69. Baitha, A., Alam, N., Hameed, S.F and Singh, R.1994. Effectiveness of neem products (*Azadirachta indica* A.Juss) against whorl maggot, *Hydrellia philippina* Ferino. in rice field. *Oryza*, 31: 69-70.
70. Baitha, A., Hameed, S.F and Singh, R.1993.Effectiveness of neem (*Azadirachta indica* A.Juss) product against rice hispa, *Dicladispa armigera* Oliv.and *Hieroglyphus nigrorepletus* Bol. *J. ent.Res.* **17** (2): 149-152.
71. Baitha, A., Hameed, S.F and Singh, R. 1993.Effectiveness of neem products against rice leaf folder in rice field. *Oryza*, **30**: 334-336.

Books or Chapter Published

Books

1. Sah, Ajay Kumar, Baitha, Arun, Singh, M.R. and Pathak, A.D.2016. Sugarcane Management and Development, ICAR-Indian Institute of Sugarcane Research, Lucknow, India, 165pp.
2. Swapna,M.,Modi,R.U.,Baitha,A.,Rao,G.P.,Li,Y.R.,Shukla,Sudhir and Solomon,S.2022. Sustainability of the Sugar and Integrated Industries: Issues and Initiatives, ICAR-Indian Institute of Sugarcane Research, Lucknow, India, 311p

Book Chapters

1. Baitha, A.2004.Rearing and mass multiplication of bioagents. In: Management and Development in Sugar Mill Reserved Zone [R.L.Yadav, et. al (eds.)]: 251-256pp.
2. Sithanantham, S., Geetha, N., Baitha, A. and Jalali, S.K.2013.Utility of *Trichogramma* for biocontrol of sugarcane borers. In: Biological Control of Insect Pests Using Egg Parasitoids [S.Sithanantham, et al. (Eds)]: (271-300), DOI 10.1007/978-81-322-1181-5_12, © Springer India 2013.
3. Lal, R. J and Baitha A.2014. Bio control of Sugarcane Insect-Pests and Diseases In: Novel Genomic Tools and Breeding Approaches for Sugar Crops Improvement [S.Srivastava et al (Eds)]: 229-241pp.
4. Baitha, A.2014. Bio-agents, their conservation, multiplication and application in field for crop protection In: Integrated nutrient management for improving soil health and

enhancing nutrient use efficiency” [S.K.Shukla et al (Eds)]: 113-126pp.

5. Baitha, Arun.2015. Biological control of insect-pests of sugarcane In: Sugarcane Crop Management for high cane & sugar productivity [A.K.Sah and O.K.Sinha (Eds)]: 79-84pp.
6. Baitha, A. 2016. Bio-Control of Insect-Pests of Sugarcane In: *Sugarcane Management and Development* [Sah et al (Eds)]: 80-92pp.
7. Baitha, A.2017.Biological control of Insect-Pests of Sugarcane. In: Sugarcane Production Technology [Sah et al (Eds)]: 93-101pp.
8. Baitha, A.2017. Major insect-pests of sugarcane, field identification and their management In: Entrepreneurship in sugarcane based production system to double farmer's income [Sah et al (Eds)]: 80-93pp.
9. Baitha, A., Singh, M.R.Hasan, S.S and Maurya, B.L 2018. *Gann ke Pramukh Kiton ka Samavit Keet Prabhandhan* In Ganna: Satat Utpadan [Singh et al (Eds)]: 85-116 pp, Plant Research and Educational Promotion Society.
10. Baitha, A., Srivastava, S., Misra, V. 2022. Insect-Pests of Sugar Beet and Their Integrated Management. In: Sugar Beet Cultivation, Management and Processing. Springer [Misra, et al. (Eds)], Springer, Singapore. https://doi.org/10.1007/978-981-19-2730-0_31.
11. Baitha, A., Srivastava, S., Misra, V. 2022.Natural Enemies of Sugar Beet. In: Sugar Beet Cultivation, Management and Processing. Springer [Misra, et al. (Eds)], Singapore. https://doi.org/10.1007/978-981-19-2730-0_34.
12. Baitha, A., Singh, M.R., Roy, S. 2022.Identification of Insect-pests of Sugarcane and their Control Measures. In: Recent Approaches for Doubling Farmers Income in Sugarcane Based Cropping System [Shukla et al (Eds)]: 295-308pp.
13. Roy, S., Goswami,S.K.,Raj,C.,Singh,Shweta, Baitha, A., Singh, D., Sushil, S.N., Joshi, D., Yadav, A.K., Prakash, B and Singh, A. 2022.Seventy Years of Crop Protection Research Achievements at Indian Institute of Sugarcane Research. In: Seven Decades of Sugarcane Research [Pathak et al (Eds)]: 43-61pp.

Extension folder

1. Sah, A.K., Singh, M.R., Baitha, Arun and Lal, B.2019.*Ganna fasal se ras chusane bale pramukh keet evam unka prabandhan*. (2019/01).
2. Sah, A.K., Singh, M.R., Baitha, Arun, Lal, B and Prasad, Kamta.2019.*Ganne ki pramukh bedhak keeton ki pahchan evam niyantran*. (2019/02).
3. Roy,S., Sushil,S.N and Baitha,Arun.2022.Integrated management of sugarcane insect-pests

Awards

1. Fellow: Indian Meteorological Society, New Delhi :2017.

2. Fellow :Entomological Society of India, New Delhi :2021
3. Editor : Indian Journal of Sugarcane Technology (2014-2016)
4. Co-Editor: Ikshu-Rajbhasha Patrika, IISR, Lucknow (2015-2016)
5. International Best Poster Award: Development of Diagnostic Expert System in Sugarcane Using Object Oriented Knowledge Representation Technique by S.S. Hasan, S. Solomon, A. Baitha, M.R.Singh, A.K. Sah, S.K. Shukla and R.Kumar in 5th IAPSIT International Sugar Conference (IS-2014) Green Technologies for Sustainable Growth of Sugar & Integrated Industries in Developing Countries held at Nanning, China from November 25-28, 2014.
6. Best Poster Presentation Award: In National Symposium on Ecofriendly Approaches for Plant Diseases Management: Recent Trend and Opportunities held during 29-30 December,2016 at ICAR-IIPR,Kanpur and presented the paper entitled “ Diagnosis of yellow leaf disease of sugarcane from sub tropical India” by S.K.Holkar,Harshita Gupta,Atul Kumar ,Arun Baitha ,Sanjeev Kumar and J.Singh.
7. Best Poster Award: Application of artificial intelligence in crop protection: State-of-the-art technology for sustainable sugarcane production in the digital era by Raj,C.,Singh,S.,Sushil,S.N.,Baitha,A.,Hasan,S.S.Modi,R.U.,Goswami,S.K.,Joshi,R,Dutta,M.K. and Pathak,A.D in 7th IAPSIT International Sugar Conference and Sugarcon 2022:Sustainability of the Sugar and Integrated Industries: Issues and Initiatives, October 16-19,2022,ICAR-Indian Institute of Sugarcane Research,Lucknow,India.