

RESUME



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PERSONAL DETAILS

Born on November 16, 1976
Indian, Hinduism
Married, Male

PERMANENT ADDRESS

Bankim Kanan
Chinsurah R. S., Hooghly-712 102
West Bengal, India

PROFILE

- M. Sc. in Zoology
- CSIR-NET JRF
- Ph. D. in Zoology.
- Served as Lecturer in Zoology, Raiganj University College, Raiganj, Uttar Dinajpur from 13 May 2003 to 19 December 2006.
- Worked as Lecturer in Zoology from 20 December 2006 to 03 December 2007 at Durgapur Govt. College, Durgapur.
- Assistant Professor at Department of Zoology from 04 December 2007, The University of Burdwan, Burdwan-713 104, West Bengal, India.
- Associate Professor at Department of Zoology from 04 December 2015, The University of Burdwan, Burdwan – 713 104, West Bengal, India.

- Currently working as Professor of Zoology at Department of Zoology from 21 September 2018, The University of Burdwan, Burdwan – 713 104, West Bengal, India.
- Teaching Experience 15 years.
- Research experience 18 years.
- Published more than 45 Original Research Articles.
- Research area: Ecology, Plant-insect interaction, Nutritional Ecology of insect.

RESEARCH SUPERVISION

- Current research interests on plant-insect interaction.
- Seven students awarded **Ph. D.** under my supervision.
- Presently supervising *four* **Ph. D.** students.
- Supervised *two* **M. Phil.** students.

PROJECTS

- **UGC Minor Research Project** entitled “Secondary chemicals in *Helianthus annuus* L. (cv. PAC-36) leaves and their role in the host-plant phenology of the defoliator, *Diacrisia casignatum* Kollar (Lepidoptera: Arctiidae)” completed on 31st January 2012.
- **DST-Fast Track Major Research Project Proposal** entitled “Secondary chemicals in *Momordica charantia* L. (cv. MEGHNA-2) and their role in the host-plant phenology of two coleopteran coccinellid pests, *Epilachna demurili* and *Epilachna dodecastigma* (Wiedemann)” completed on 17th October 2013.
- **West Bengal DST Project** entitled “Ecological and medicinal implications of the creeping cucumber, *Solena amplexicaulis* (Lam.) Gandhi. with reference to its phytochemicals” completed on 28th January 2017.
- **UGC Major Research Project** entitled “Insect biocontrol of obnoxious *Ludwigia octovalvis* (Jacq.) Raven weed growing in rice-fields of West Bengal” completed on 30 June 2018.
- **DST-SERB Project** entitled “Development of baited trap to control the aphid, *Aphis craccivora* (Koch) (Hemiptera: Aphididae) on *Lathyrus sativus* L. plants and evaluation of transgenic *L. sativus* plants against this aphid” ongoing from 17th March 2018.

Selected peer-reviewed publications (* means corresponding author)

S No.	Authors	Title	Name of Journal	Volume	Page	Year
1.	Das, S., Koner, A. and Barik, A.*	Biology and life history of <i>Lema praeusta</i> (Fab.) (Coleoptera: Chrysomelidae), a biocontrol agent of two Commelinaceae weeds, <i>Commelina benghalensis</i> and <i>Murdannia nudiflora</i>	Bulletin of Entomological Research , Publisher: Cambridge University Press	doi:10.1017/S0007485318000731		2018
2.	Karmakar, A., Mitra, S. and Barik, A.*	Systemically released volatiles from <i>Solena amplexicaulis</i> plant leaves with color cues influencing attraction of a generalist insect herbivore	International Journal of Pest Management Publisher:	64	210-220	2018

			Taylor & Francis			
3.	Karmakar, A., Sarkar, N., Bhattecharjee, S., and Barik, A.*	Antioxidant enzymes in <i>Solena amplexicaulis</i> (Lam.) Gandhi (Cucurbitaceae) plants against feeding damage by <i>Aulacophora foveicollis</i> Lucas (Coleoptera: Chrysomelidae)	Allelopathy Journal Publisher: International Allelopathy Foundation,	44	285-298	2018
4.	Das, S., Malik, U. and Barik, A.*	Effect of thermal stress on antioxidant responses of the biocontrol agent <i>Galerucella placida</i> Baly (Coleoptera: Chrysomelidae)	International Journal of Tropical Insect Sciences Publisher: Cambridge University Press,	doi:10.1017/S1742758418000218		2018
5.	Mitra, S., Karmakar, A., Mukherjee, A., and Barik, A.*	The role of leaf volatiles of <i>Ludwigia octovalvis</i> (Jacq.) Raven in the attraction of <i>Altica cyanea</i> (Weber) (Coleoptera: Chrysomelidae).	Journal of Chemical Ecology Publisher: Springer	43	673-692	2017
6.	Mitra, S., Sarkar, N. and Barik, A.*	Long-chain alkanes and fatty acids from <i>Ludwigia octovalvis</i> weed leaf surface waxes as short-range attractant and ovipositional stimulant to <i>Altica cyanea</i> (Weber) (Coleoptera: Chrysomelidae)	Bulletin of Entomological Research , Publisher: Cambridge University Press	107	391-400	2017
7.	Chatterjee, S., Karmakar, A., Azmi, S.A., and Barik, A.*	Antibacterial activity of long-chain primary alcohols from <i>Solena amplexicaulis</i> leaves	Proceedings of the Zoological Society Publisher: Springer	DOI: 10.1007/s12595-017-0208-0		2017
8.	Sarkar, N., Karmakar, A., and Barik, A.*	Volatiles of <i>Solena amplexicaulis</i> (Lam.) Gandhi leaves influencing attraction of two generalist insect herbivores.	Journal of Chemical Ecology Publisher: Springer	42	1004-1015	2016
9.	Malik, U., Das, S. and Barik, A.*	Biology of <i>Galerucella placida</i> Baly (Coleoptera: Chrysomelidae) on the Rice-field Weed <i>Polygonum orientale</i> L. (Polygonaceae)	Proceedings of the Zoological Society Publisher: Springer	DOI: 10.1007/s12595-016-0203-x		
10.	Malik, U., Karmakar, A., and Barik, A.*	Variation in fatty acids throughout the developmental stages of <i>Vigna unguiculata</i> (L.) Walp. Leaves	Botany Letters Publisher: Taylor & Francis	163	461-468	2016
11.	Malik, U., and Barik, A.*	Volatiles and surface wax long-chain alkanes and free fatty acids from <i>Polygonum orientale</i> L. (Polygonaceae) flowers	Botany Letters Publisher: Taylor & Francis	163	453-460	2016
12.	Malik, U., Karmakar, A. and Barik, A.*	Attraction of the potential biocontrol agent <i>Galerucella placida</i> (Coleoptera: Chrysomelidae) to the volatiles of <i>Polygonum orientale</i> (Polygonaceae) weed leaves.	Chemoecology Publisher: Springer	26	45-58	2016
13.	Adhikary, P., Mukherjee, A. and Barik, A.*	Free fatty acids from <i>Lathyrus sativus</i> seed coats acting as short-range attractants to <i>Callosobruchus maculatus</i> (F.) (Coleoptera: Bruchidae).	Journal of Stored Products Research Publisher: Elsevier	67	56-62 8.75	2016
14.	Karmakar, A., Mukherjee, A. and Barik, A.*	Floral volatiles with colour cues from two cucurbitaceous plants causing attraction of <i>Aulacophora foveicollis</i> .	Entomologia Experimentalis et Applicata	158	133-141	2016

			Publisher: Wiley,			
15.	Mukherjee, A. and Barik, A.*	Long-chain primary alcohols from <i>Momordica cochinchinensis</i> Spreng leaf surface waxes.	Acta Botanica Gallica , Renamed as Botany Letters Publisher: Taylor & Francis	163	61-66 20/7	2016
16.	Adhikary, P., Malik, U. and Barik, A.*	Effects of four varieties of <i>Lathyrus sativus</i> L. seeds on the bionomics of <i>Callosobruchus maculatus</i> (F.) (Coleoptera: Bruchidae).	Canadian Entomologist Publisher: Cambridge University Press,	148	102-111.	2016
17.	Karmakar, A. and Barik, A.*	<i>Solena amplexicaulis</i> (Cucurbitaceae) flower surface wax influencing attraction of a generalist insect herbivore, <i>Aulacophora foveicollis</i> (Coleoptera: Chrysomelidae),	International Journal of Tropical Insect Sciences Publisher: Cambridge University Press,	36	70-81 20/7	2016
18.	Karmakar, A. Malik, U. and Barik, A.*	Effects of leaf epicuticular wax compounds from <i>Solena amplexicaulis</i> (Lam.) Gandhi on olfactory responses of a generalist insect herbivore.	Allelopathy Journal Publisher: International Allelopathy Foundation,	37	253-272. 20/7	2016
19.	Sarkar, N., Mukherjee, A. and Barik, A.*	Effect of bitter gourd (Cucurbitaceae) foliar constituents on development and reproduction of <i>Epilachna dodecastigma</i> (Weid.) (Coleoptera: Coccinellidae).	International Journal of Tropical Insect Sciences Publisher: Cambridge University Press,	36	195-203	2016
20.	Sarkar, N., Mitra, S. and Barik, A.*	<i>Momordica charantia</i> L. (Cucurbitaceae) floral volatiles causing attraction of <i>Epilachna dodecastigma</i> (Coleoptera: Coccinellidae)	International Journal of Pest Management Publisher: Taylor & Francis	63	138-145	2017
21.	Malik, U., Mitra, S. and Barik, A.*	Attraction of the biocontrol agent, <i>Galerucella placida</i> Baly (Coleoptera: Chrysomelidae) to the leaf surface alkanes of the weed, <i>Polygonum orientale</i>	Allelopathy Journal Publisher: International Allelopathy Foundation,	40	103-116	2017
22.	Sarkar, N. and Barik, A.*	Effect of Temperature on Development and Reproduction of <i>Epilachna dodecastigma</i> (Wied.) (Coleoptera: Coccinellidae)	Proceedings of the Zoological Society Publisher: Springer	DOI: 10.1007/ s12595-016- 0171-1		2016
23.	Adhikary, P., Malik, U. and Barik, A.*	Oviposition behavior of <i>Callosobruchus maculatus</i> (F.) (Coleoptera: Chrysomelidae: Bruchinae) on four varieties of <i>Lathyrus sativus</i> L. seeds	Entomon Publisher: Association for Advancement of Zoology	41	1-10	2016
24.	Mukherjee, A., Karmakar, A.,	Bionomics of <i>Momordica cochinchinensis</i> Fed <i>Aulacophora</i>	Proceedings of the Zoological	70	81-87	2017

	and Barik, A.*	foveicollis (Coleoptera: Chrysomelidae)	Society Publisher: Springer			
25.	Adhikary, A., karmakar, A. and Barik, A.*	Variation in free and bound fatty acids in four varieties of <i>Lathyrus sativus</i> L. grown in India	Journal of Food Legumes Publisher: ICAR-Indian Institute of Pulses Research Kanpur, India	28	358-360.	2015 (accepted In 10 January 2016)
26.	Mukherjee, A., Sarkar, N. and Barik, A.*	<i>Momordica cochinchinensis</i> (Cucurbitaceae) leaf volatiles: semiochemicals for host location by the insect pest, <i>Aulacophora foveicollis</i> (Coleoptera: Chrysomelidae).	Chemoecology Publisher: Springer	25	93-104	2015
27.	Adhikary, P., Mukherjee, A. and Barik, A.*	Attraction of <i>Callosobruchus maculatus</i> (F.) (Coleoptera: Bruchidae) to four varieties of <i>Lathyrus sativus</i> L. seed volatiles.	Bulletin of Entomological Research , Publisher: Cambridge University Press	105	187-201	2015
28.	Mukherjee, A., Sarkar, N. and Barik, A.*	Leaf surface n-alkanes of <i>Momordica cochinchinensis</i> Spreng as short-range attractants for its insect pest, <i>Aulacophora foveicollis</i> Lucas (Coleoptera: Chrysomelidae).	Allelopathy Journal Publisher: International Allelopathy Foundation,	36	109-122.	2015
29.	Malik, U. and Barik, A.*	Free fatty acids from the weed, <i>Polygonum orientale</i> leaves for attraction of the potential biocontrol agent, <i>Galerucella placida</i> (Coleoptera: Chrysomelidae).	Biocontrol Science and Technology Publisher: Taylor & Francis	25	593-607.	2015
30.	Sarkar, N. and Barik, A.*	Free fatty acids from <i>Momordica charantia</i> L. flower surface waxes influencing attraction of <i>Epilachna dodecastigma</i> (Wied.) (Coleoptera: Coccinellidae).	International Journal of Pest Management Publisher: Taylor & Francis	61	47-53.	2014
31.	Sarkar, N., Malik, U. and Barik, A.*	n-alkanes in epicuticular waxes of <i>Vigna unguiculata</i> (L.) Walp. leaves.	Acta Botanica Gallica Presently Renamed as Botany Letters Publisher: Taylor & Francis	161	373-377.	2014
32.	Poulami, A., Mukherjee, A. and Barik, A.*	Role of surface wax alkanes from <i>Lathyrus sativus</i> L. seeds for attraction of <i>Callosobruchus maculatus</i> (F.) (Coleoptera: Bruchidae).	Journal of Stored Products Research Publisher: Elsevier	59	113-119.	2014
33.	Sarkar, N., Mukherjee, A. and Barik, A.*	Attraction of <i>Epilachna dodecastigma</i> (Coleoptera: Coccinellidae) to <i>Momordica charantia</i> (Cucurbitaceae) leaf volatiles.	The Canadian Entomologist Publisher: Cambridge University Press	147	169-180.	2014
34.	Mukherjee, A.	Long-chain free fatty acids from	Allelopathy	33	255-266.	2014

	and Barik, A.*	Momordica cochinchinensis Spreng flowers as allelochemical influencing the attraction of Aulacophora foveicollis Lucas (Coleoptera: Chrysomelidae).	Journal Publisher: International Allelopathy Foundation			
35.	Mukherjee, A., Sarkar, N. and Barik, A.*	Long-chain free fatty acids from Momordica cochinchinensis leaves as attractants to its insect pest, Aulacophora foveicollis Lucas (Coleoptera: Chrysomelidae).	Journal of Asia-Pacific Entomology Publisher: Elsevier	17	229-234.	2014
36.	Sarkar, N. and Barik, A.*	Alkanes from bitter gourd as allelochemicals in olfactory responses of Epilachna dodecastigma (Wied.)	Allelopathy Journal Publisher: International Allelopathy Foundation	33	43-52.	2014
37.	Roy, N. and Barik, A.*	Long-chain free fatty acids from sunflower (Asteraceae) leaves: allelochemicals for host location by the arctiid moth, Diacrisia casignetum Kollar (Lepidoptera: Arctiidae).	Journal of the Kansas Entomological Society Publisher: Kansas Entomological society	87	22-36.	2013
38.	Mukherjee, A., Sarkar, N. and Barik, A.*	Alkanes in flower surface waxes of Momordica cochinchinensis influence attraction to Aulacophora foveicollis Lucas (Coleoptera: Chrysomelidae).	Neotropical Entomology Publisher: Springer	42	366-371.	2013
39.	Sarkar, N., Mukherjee, A. and Barik, A.*	Long-chain alknaes: allelochemicals for host location by the insect pest, Epilachna dodecastigma (Coleoptera: Coccinellidae).	Applied Entomology and Zoology Publisher: Springer	48	171-179.	2013
40.	Roy, N., Laskar, S. and Barik, A.*	Amino acids through developmental stages of sunflower leaves.	Acta Botanica Croatica Publisher: The University of Zagreb & De Gruyter	72	23-33.	2013
41.	Sarkar, N., Mukherjee, A. and Barik, A.*	Olfactory responses of Epilachna dodecastigma (Coleptera: Coccinellidae) to long-chain fatty acids from Momordica charantia leaves.	Arthropod-Plant Interactions Publisher: Springer	7	339-348.	2013
42.	Roy, N. and Barik, A.*	Influence of four host plants on feeding, growth and reproduction of Diacrisia casignetum (Lepidoptera: Arctiidae).	Entomological Science Publisher: Wiley	16	112-118.	2013
43.	Mukherjee, A. and Barik, A.*	Potential allelopathic effects of Ludwigia adscendens on the seed germination and seedling growth of rice.	Indian Journal of Agricultural Research Publisher: Agriculture Research Communication Centre	47	1-15.	2013

44.	Roy, N. and Barik A.*	The impact of variation in foliar constituents of sunflower on development and reproduction of <i>Diacrisia casignetum</i> Kollar (Lepidoptera: Arctiidae)	Psyche Publisher: Hindawi Publishing Corporation	DOI: 10.1155/ 2012/812091	1-9	2012
45.	Roy, N. and Barik A.*	Alkanes used for host recognition by the arctiid moth, <i>Diacrisiacasignetum</i> Kollar	Journal of Entomological Research Publisher: Malhotra Publishing House	36	345-350	2012
46.	Adhikary, P. and Barik, A.*	Effect of temperature on biology of <i>Callosobruchus maculatus</i> (F.)	Indian Journal of Entomology Publisher: IndianJournals.Com	74	261-266.	2012
47.	Roy, N., Laskar, S. and Barik, A.*	The attractiveness of odorous esterified fatty acids to the potential biocontrol agent, <i>Altica cyanea</i> .	Journal of Asia Pacific Entomology Publisher: Elsevier.	15	277-282	2012