

LITERATURE CITED

- Abraham VA and Mohandas N. 1988. Biology of coconut white grub *Leucopholis coneophora* Burm. (Melolonthinae: Coleoptera: Scarabaeidae). *Journal of Plantation Crops* 16(1): 38-44
- Abraham VA. 1983. Biology, bionomics and control of coconut cockchafer, *Leucopholis coneophora* Burm. Ph D Thesis, Kerala Agricultural university, Vellanikkara.
- Adsule VM and Patil SM. 1990. *Leucopholis lepidophora*: a new white grub pest of groundnut in Western Maharashtra. *Groundnut News* 2(2): 7
- Adsule VM and Patil SM. 1994. Biology of sugarcane white grub, *Leucopholis lepidophora* Bl. (Melolonthinae: Scarabaeidae: Coleoptera). *Indian Sugar* 44(1): 25-28
- Ahad I, Bhagat RM and Monobrullah M. 2011. Incidence and distribution of coleopteran insect pests on rainfed maize (*Zea mays* L.) in upper Himalayas of Jammu and Kashmir, India. *Journal of Phytotherapy* 3(11): 9-12
- Ahmad T. 1939. *Anomala lineatopennis*, Blanch. a pest of apple. *Indian Journal of Entomology* 12(2):108
- Ahrens D. 2005. Illustrated key of phytophagous scarabs of the Chitwan region (Nepal): Including figures of adults of white grubs recorded in the IPM project entitled “Identification of whitegrub species of Nepal”. Project report NE36 (43636) Version 1.2
- Ali ATM. 2001. Biosystematics of phytophagous scarabaeidae-An Indian Overview. In: Indian Phytophagous Scarabs and their Management. Present Status and Future Strategies (G Sharma, YS Mathur and RBL Gupta, eds) Agrobios (India), Jodhpur, pp 5-37
- Ambethgar V. 2000. Report of cetoniid beetle *Oxycetonia versicolor* Fab. on brinjal from Tamil Nadu, India. *Insect Environment* 5(4): 170

- Anitha V. 1997. Applied ecology of whitegrubs in groundnut in Andhra Pradesh. Ph.D. thesis submitted to Acharya NG Ranga Agricultural University, Hyderabad, India
- Anitha VR, Wightman DJJ and Ward A. 2006. Distribution and abundance of white grubs (Coleoptera: Scarabaeidae) on groundnut in Southern India. *Crop protection* 25(8): 732-740
- Annamalai R, Surendran C, Thirumurthi S and Gunasekharan V. 1993. Insect damage to neem in Tamil Nadu (India). In: Proceedings of the IUFRO Symposium, Impact of diseases and Insect Pests in Tropical Forests, Peechi, India, 25-26, November, 1993, pp 349-355.
- Anonymous 1977. Annual Report, Department of Entomology-Zoology, Himachal Pradesh University, Agricultural Complex, Solan, Himachal Pradesh.
- Anonymous 2006. Annual Report, 2005-06. All India Network project on White Grubs and Other Soil Arthropods, Palampur, India.
- Anonymous 2007. Annual Report, 2006-07. All India Network project on White Grubs and Other Soil Arthropods, Palampur, India.
- Anonymous 2008. Annual Report, 2007-08. All India Network project on White Grubs and Other Soil Arthropods, Palampur, India.
- Anonymous 2009. Annual Report, 2008-09. All India Network project on White Grubs and Other Soil Arthropods, Palampur, India.
- Anonymous 2010. Annual Report, 2009-10. All India Network project on White Grubs and Other Soil Arthropods, Palampur, India.
- Anonymous 2011. Annual Report, 2010-11. All India Network project on White Grubs and Other Soil Arthropods, Palampur, India.
- Anonymous 2012. Package of Practises for vegetable Crops. CSK Himachal Pradesh Krishi Vishvavidyalaya, Palampur, India.
- Arif M and Joshi MC. 1994. White grub *Anomala rufiventris* Redtenbacher (Coleoptera: Scarabaeidae) an unrecorded pest of brinjal in Kumaon hills. *Karnataka Journal of Agricultural Sciences* 7(4): 484-485

- Arrow GJ. 1917. The fauna of British India. Including Ceylon and Burma. Coleoptera, Lamellicornia Part 2 (Rutelinae: Desmonycinae and Euchirinae). Taylor and Francis, London, P. 12+387
- Bakhetia DRC and Sohi AS. 1982. Scarabaeid beetles collected in the light traps. *Journal of Soil Biology and Ecology* 2(2): 99-100
- Bakhetia DRC. 1982. Studies on the white grub, *Holotrichia consanguinea* in Punjab. Control and yield losses due to white grub and collar rot of groundnut. *Journal of Soil Biology and Ecology* 2(1): 40-46
- Brar KS and Sandhu GS. 1982. Field biology of white grub, *Holotrichia consanguinea* Blanchard (Scarabaeidae: Coleoptera) in Punjab. *Journal of Soil Biology and Ecology* 2(1): 32-35
- Beaudoin L, Morin JP, Nguyen C and Decazy B. 1995. Study of underground *Adoretus versutus* Har. (Coleoptera: Scarabaeidae) populations in Vanuatus: Detection of Cohabitation with other white grubs. *Journal of Applied Entomology* 119(6): 391-397
- Beeson CFC. 1921. The food plants of Indian forest insects, Part IV. *Indian Forester* 47(6): 247-252
- Beeson CFC. 1941. The ecology and control of the forest insects in India and the neighbouring countries. Publications of forest Research, Division. Government of India. P. 1007
- Bhaduria AS and Nigam PM. 1982. Food preference to *Holotrichia consanguinea* (Coleoptera: Scarabaeidae). *Entomon* 7(3): 31-32
- Bhagat RM and Kashyap NP. 1999. Wild rose: A susceptible host of *Brahmina coriacea* Hope (Melolonthinae: Coleoptera). *Insect Environment* 5(1): 29-30
- Bhagat RM and Kashyap NP. 1997. A preliminary study on white grubs of Dhauladhar foot hills (Himachal Pradesh) and adjoining areas. *Indian Journal of Entomology* 59(3): 337-340
- Bhagat RM and Kashyap NP. 1998. Occurrence of *Clinteria* sp. on apple in Himachal Pradesh. *Insect Environment* 4(2): 43-44

- Bhagat RM and Singh V. 2006. Insect-pests associated with seabuckthorn (*Hippophae rhamnoides* L.) in Lahaul valley of Himachal Pradesh. *Pest Management and Economic Zoology* 14(1/2): 191-193
- Bhalla OP and Pawar AD. 1977. A survey study of insect and non insect pests of economic importance in Himachal Pradesh, Tikku and Tikku, Kitab Mehal, Bombay India. P. 80
- Bhalla OP. 1972. Ensure quality of apple fruits by adopting measure against insect pests. *Himachal Horticulture* 12(3): 24-28
- Bhat OK, Bhat AA and Kaul VK. 2005. Faunistic studies of white grubs in Kashmir. *Insect Environment* 11(1): 14-15
- Bhat OK, Kaul V and Bhagat KC. 1994. Incidence of pests associated with rhizosphere of tomato in Jammu. *Annals of Plant Protection Sciences* 2(2): 23-26
- Bhattacharyya B, Bhyan U, Baurah AALH, Pujari D and Saud RK. 2011. *Lepidiota mansueta* Burmeister (Coleoptera: Scarabaeidae). A new severe key pest in Majauli Island, Assam. Paper presented in the VIIth International Conference on Arthropods: Chemical, Physiological, Biotechnological and Environmrntal Aspects, September 18-23, Biaka Tatrzanska, Polland.
- Bhatnagar A and Mathur YS. 2001. *Maladera* spp.: small species attaining giant pest status. In: Indian Phytophagous Scarabs and their Management. Present Status and Future Strategies (G Sharma, YS Mathur and RBL Gupta, eds) Agrobios (India), Jodhpur. pp 65-73
- Bhattacharjee NS and Bhatia HP. 1981. Infestation of whitegrub-*Holotrichia cansanguinea* Blanchard (Scarabaeidae: Coleoptera) on Soybean. *Pesticides* 15(11): 35-36
- Bhawane GP, Mamlayya AB, Wagh SR and Chougule AK. 2012. Diversity of white grub beetles and their host range from northern western ghats, Kolhapur District (MS). India. *The Bioscan* 7(4): 589-596.
- Bianco M and Viggiani G. 1988. Coleopterous scarabaeids damaging to hazelnuts in Campania. *Informatore Agrario* 54(1): 39-42

- Brar KS and Sandhu GS 1982. Biology of *Holotrichia consanguinea* Blanchard (Scarabaeidae: Coleoptera) in Punjab. *Journal of Soil Biology Ecology* 2: 32-35
- Chandel RS and Chandla VK. 2003. Managing tuber damaging pests of potato. *Indian Horticulture* 48: 15-17
- Chandel RS and Kashyap NP. 1997. About white grubs and their management. *Farmer and Parliament* 37(10): 29-30
- Chandel RS and Kashyap NP. 1998. Diversity of scarabaeids in dry temperate Himalaya, pp. 54. In: Proceedings of National Seminar on Entomology in 21st Century, April 30- May 2, 1998, Rajasthan College of Agriculture, Udaipur, India.
- Chandel RS and Verma TD. 1998. *Holotrichia problematica*-A unique winter occurring scarabaeid beetle in Himachal Pradesh. In: National Seminar on Entomology in 21st Century: Biodiversity, Susceptibility, Environmental Safety and Human Health, April 30-May 2, 1998. Rajastjan College of Agriculture, Udaipur. pp 57
- Chandel RS, Chander R and Verma TD. 1994a. *Thuja orientalis* L., a new host of scarabaeid beetles. *Indian Journal of Plant Protection* 22(1): 134
- Chandel RS, Chandla VK and Sharma A. 2003. Population dynamics of potato white grubs in Shimla hills. *Journal of Indian Potato Association* 30(1-2): 151-152
- Chandel RS, Gupta PR and Chander R. 1994b. Diversity of scarabaeid beetles in mid hills of Himachal Pradesh. *Himachal Journal of Agricultural Research* 20(1&2): 98-101
- Chandel RS, Gupta PR and Chander R. 1995. Behaviour and biology of the defoliating beetle, *Brahmina coriacea* (Hope) (Coleoptera: Scarabaeidae) in Himachal Pradesh. *Journal of Soil Biology and Ecology* 15(1): 82-89
- Chandel RS, Gupta PR and Thakur JR. 1997. Host preference and seasonal abundance of defoliating beetles infesting fruit trees in mid hills of Himachal Pradesh. *Journal of Soil Biology and Ecology* 17: 140-146
- Chandel RS, Kashyap NP and Chandel YS. 1996. White grubs survey on potato in Lahaul valley of Himachal Pradesh. *Journal of Indian Potato Association* 23(3/4): 168-169.

- Chandel RS, Mehta PK and Chandla VK. 2008. Management of white grubs infesting potato in Himachal Pradesh. In: IInd Congress on Insect Science, February 21-22, PAU, Ludhiana. pp 190-191
- Chandel RS, Mehta PK and Sharma SK. 2009. White Grubs: Polyphagous Pests of National Importance. In: Forest Insect Pest and Disease Management in Northwest Himalayas (R Singh, M Pal and RC Sharma, eds) Himalayan Forest Research Institute (ICFRI), Shimla, Himachal Pradesh, India. pp. 45-58
- Chandel RS, Mehta PK, Verma KS and Sharma PC. 2010. A survey study of white grubs of economic importance in Himachal Pradesh. In: Proceedings of National Conference on Plant Protection in Agriculture through Ecofriendly Techniques and Traditional Farming Practice, Durgapur Rajasthan. pp 441-442
- Chander R and Singh M. 1985. *Brahmina coriacea* (Hope) a common pest of apple and potato in Himachal Pradesh. In: Proceedings of National Conference on Pests of Agricultural Crops, Kanpur p 44
- Chandla VK, Mishra SS, Bisth BS, Bhalla OP and Thakur JR. 1988. White grub *Lachnostenus (Holotrichia) coriacae* Hope, infesting potato in Simla hills. *Seeds and Farms* 14(2): 12-13
- Chandla VK, Raj D, Sharma A, Garg VK, Verma KD and Raman R. 2001. Serious attack of white grubs in potato fields at Shimla. *Journal of Indian Potato Association* 28: 125-126
- Chandra K and Gupta D. 2012. An inventory of scarab beetles (Coleoptera: Scarabaeidae) of Achanakmar-Amarkantak Biosphere Reserve, Chhattisgarh, India, *International Journal of Science and Nature* 3(4): 886-891
- Chandra K and Kumar M. 1991. Studies on the female genitalia of Pleurostict scarabaeidae (Coleoptera: Insecta) of North west India. *Journal of Hill Farming* 4(2): 57-65
- Chandra K and Uniyal VP. 2007. On a collection of pleurostict scarabaeidae (Coleoptera) from the great Himalayan National Park, Himachal Pradesh, India. *Zoo's Print Journal* 22: 2821-2823

- Chandra K. 1992. Host pest relationship in pleurostict scarabaeidae (Coleoptera) of North-West India. *Indian Journal of Hill Farming* 5(2): 159-160
- Chandra K. 2005. Insecta : Coleoptera: Scarabaeidae. *Zoological Survey of India Fauna, of Western Himalayas* (Part 2). pp 141-155.
- Chandramohan N and Nanjan K. 1991. Pattern of emergence of white grubs in Nilgiris. *South Indian Horticulture* 39(6): 382-383
- Chenchaiah KC. 2006. Biology and control of white grubs of arecanut in Sub-Himalayan Tarai region of West Bengal. *Indian Journal of Plant Protection* 34(1): 33-35
- Cho SS, Kim SH and Yang JS. 1989. Studies on the seasonal occurrence of the white grubs and the chafers, and on the species of chafers in the Peanut fields in Yeo-Ju area. *Research Reports of Rural Development Administration: Crop Protection* 31(3): 19-26
- Chowdhari AN and Verma KL. 1979. Notes on the evaluation of insecticides and fungicides as antifeedants for the control of damage by defoliating beetles of apple. *Indian Journal of Agriculture Sciences* 49(7): 566-567
- Comstock JH. 1950. An Introduction to Entomology. Comstock Publishing Company Inc. Ithaca, Newyork. pp 1064.
- Dashad SS, Chauhan R and Choudhary OP. 2008. Emergence of different species of white grub beetles in relation to abiotic factors based on light trap catches. *Research on Crops* 9(3): 688-691
- Deol GS and Sekhon PS. 1993. New record of white grub *Maladera* sp. on wheat. *Indian Journal of Entomology* 55(1): 105-107
- Desai MT and Patel RM. 1965. Some observations on the biology and control of white grubs in soil (*Holotrichia near consanguinea* Bl.) affecting groundnut in Gujarat. *Indian Journal of Entomology* 27: 93-94
- Dethier VG. 1953. Vission. In: Insect Physiology (KD Roeder, ed) Wiley New York. pp 488-522
- Devi N, Raj D and Kashyap NP. 1994. Relative abundance of some white grub beetles in mid hill zone of Himachal Pradesh (India). *Journal of Entomological Research* 18(2): 139-142

- Dhaliwal JS and Mehndiratta PD. 1994. Record of flower beetle, *Chiloloba acuta* Wiedemann (Scarabaeidae: Coleoptera) on sorghum seed crop from Punjab. *Journal of Insect Science* 7(1): 110-111
- Dhoj Yubak GC, Keller S, Nagel P and Kafle L. 2009. Abundance and diversity of scarabaeid beetles (Coleoptera: Scarabaeidae) in different farming areas of Nepal. *Formosan Entomol* 29: 103-112
- Dong YC and Youn JF. 1987. Preliminary study on biology of hairy brown chafer. *Journal of North East Forestry University* 15(4): 33-38
- Dumbleton LJ. 1943. The grass grub (*Odontria zealandica* White): a review of the problem in Newzealand. *Newzealand Journal of Science and Technology* 23(6A): 305-321
- Emden FIV. 1941. Larvae of British beetles, II: A key to the British *Lamellicornia* larvae. *Entomologists Monthly Magazine* 75: 117-127, 181-192
- Fluiter HJDE. 1941. Observations on whitegrubs and their control in Heavea plantations. *Arch. Coorde Rubberveldt* 25: 167-264
- Forschler BT and Gardener WA. 1991. Flight activity and relative abundance of phytophagous scarabaeidae attracted to blacklight traps in Georgia. *Journal of Agricultural Entomology* 8(3): 179-187
- Freitas FA de, Zanuncio TV, Lacerda MC and Zanuncio JC. 2002. Fauna of coleoptera collected with light traps in a *Eucalyptus grandis* plantation in Santa Barbara, Minas Gerais, Brazil. *Revista Arvore* 26(4): 505-511
- Friend RB. 1929. Control of the asiatic beetle in lawns. *Connecticut Agriculture Experimental Station Bulletin* 62: 304, 585-664
- Gardner JCM. 1935. Immature stages of Indian Coleoptera (196). *Indian Forest Records* 1: 1-33
- Garg DK and Shah NK. 1983. White grub outbreak on rainfed dryland rice in Uttar Pradesh. *International Rice Research Newsletter* 8(4): 16-17
- Garg DK and Verma PV. 1993. Bionomics of white grub, *Anomala dimidiata* in Kumaon hills, Uttar Pradesh. *Journal of Soil Biology and Ecology* 13(2): 136-143

- Garg DK, Shah NK and Tandon JP. 1983. Protect your crops from white grub menace. *Indian Farming* 32(11): 25-26
- Gol'berg AM, Gamliel B, Wolfonich M, Sando T and Almogi A. 1986. Preliminary observations on the biology of *Maladera* sp. *Phytoparasitica* 14: 156-157
- Gol'berg AM, Yathom S, Almogi LA and Fridland WG. 1989. Diurnal and seasonal occurrence, feeding habits and mating behaviour of *Maladera matrida* adults in Israel. *Phytoparasitica* 17: 81-89
- Gowda NSS, Balachandra CK and Chakravarthy AK. 1990. Incidence on areca in the hill region of Karnataka. *Current Research-UAS, Bangalore* 19(5): 79-80
- Gracia A, Trujillo NA, Moron CD, Lopez MA and Olguin JF. 2008. Use of fluorescent light traps for the management of white grubs (Coleoptera: Melolonthinae) in maize (*Zea mays* L.). *Agrociencia-Montecillo* 42(2): 217-223
- Gressitt JL. 1953. The coconut rhinoceros beetle (*Oryctes rhinoceros*) with particular reference to the Palau Island. *Bishop Museum bulletin* 212: pp 157
- Gruner L. 1975. An investigation on the activity of various West Indian scarabaeids with the aid of light traps and chemical traps. *Annales-de-Zoologie-Aimale* 7(3): 399-423
- Gupta BD and Avasthy PN. 1956. Whitegrub attack on sugarcane. *IISR Newsletter* 10: 4
- Gupta BD, Joshi NK and Joshi ID. 1977. Some important defoliating and fruit eating beetles of temperate fruit trees: A Survey Study and Control. *Progressive Horticulture* 8: 53-60.
- Gupta S. 2012. Distribution and abundance of *Brahmina coriacea* (Hope) in Himachal Pradesh. M. Sc. Thesis, CSK HPKV, Palampur.
- Haq A. 1962. Notes on the bionomics of *Lachnostenus longipennis* Bl. (Melolonthidae: Coleoptera). *Indian Journal of Entomology* 24(3): 220-221
- Hayes WP. 1925. A comparative study of the life history of certain polyphagous scarabaeid beetles. Technical Bulletin, Kansas Agriculture Experimental Station 16: 146

Hayes WP. 1929. Morphology, taxonomy and biology of larval scarabaeoidea. *Illinois Biological Monograph* 12(2): 377-393

Johnson J and Nair MRGK. 1966. A note on the control of coconut chafer grub *Leucopholis coneophora* Burm. *Agriculture Research Journal of Kerala* 4: 114

Joshi BG, Ramprasad G and Rao RSN. 1969. Occurrence of the white grub, *Holotrichia serrata* F., as a new pest of tobacco. *Indian Journal of Applied Entomology* 31(2): 284-285

Joshi KC and Joshi R. 1980. Insect pests of fruits trees in Kumaon hills. *Indian Horticulture* 25(1): 21-24

Joshi KC and Meshram PB. 2008. White grub, *Holotrichia* sp. threatening bamboo seedlings, saplings and its management. *Indian Forester* 134(9): 1257-1260

Joshi RK. 1967. Studies on the biology and control of whitegrub *Holotrichia cansanguinea* Blanch. (Coleoptera: Scarabaeidae). M.Sc. Thesis, College of Agriculture, University of Udaipur, Jobner. P. 82

Kalra VK, Singh H and Rohilla HR. 1991. Population build up of white grub, (*Holotrichia consanguinea*) Blanch. in Haryana. *Journal of Insect Science* 4(1): 73-75

Kapdia MN Butani PG, Beria NN. 2006. White grub species attacking groundnut in Saurashtra region in Gujarat, India. *International Arachis Newsletter* 26: 28-29

Kard BMR and Hain FP. 1990. Flight pattern and white grub population densities of three beetles species (Coleoptera: scarabaeidae) in the mountains of northwestern North Carolina. *Journal of Entomological Science* 25(1): 34-43

Kashyap NP and Adlakha PL. 1971. New records of insect pests of Soybean crop. *Indian Journal of Entomology* 33(4): 467-468

Khan HK and Nagaraju N. 2005. New host of *Oxycetonia versicolor* Fab. (Cetoniidae: Coleoptera). *Insect Environment* 11(3): 130

Khan KM and Ghai S. 1974. Whitegrubs and their control in India. *Pesticides* 8(12): 19-

- Khan KM and Ghai S. 1982. Taxonomic status of the genus *Holotrichia* Hope. (Melolonthini: Melolonthinae: Scarabaeidae) with description of five new species from India along with redescription of two poorly described species and a key to species. *Indian Journal of Entomology* 23: 28-45
- Khanal D, Dhoj YGC, Sporleider M and Thapa RB. 2012. Distribution of whitegrubs in here ecological domains of Nepal. *The Journal of Agriculture and Environment* 13: 40-46
- Kishimoto YK, Itioka T, Nakagawa M, Momose K, Nakashizuka T. 2011. Phytophagous scarabaeid diversity in Swidden cultivation landscapes in Sarawak, Malaysia. *Raffles Bulletin of Zoology* 59(2): 285-293
- Korschefsky VR. 1940. Bestimmugstabellen der haufigsten deutschen scarabaeidanlarven. *Arbaei Ten Uber Physiologische Ung Ange Wantde Entomologie*, Berlin-Dalhem 7: 41-51
- Krebs CJ. 2001. Species diversity measures of heterogeneity. In: Ecology: The Experimental Analysis of Distribution and Abundances (E Fogarty, H Dutton and W Earl, eds) Wesley Longman, Inc. San Fransisco. pp 617-618
- Kulkarni N, Chandra K, Wagh PN, Joshi KC and Singh RB. 2007. Incidence and management of whitegrub *Schizonycha ruficollis* on seedlings of teak (*Tectona grandis* Linn. f.). *Insect Science* 14(5): 411-418
- Kulkarni N, Paunikar S, Joshi KC and Rogers J. 2009. White grubs, *Holotrichia rustica* and *Holotrichia mucida* (Coleoptera: Scarabaeidae) as pests of teak (*Tectona grandis* L.f.) seedlings. *Insect Science* 16: 519-525
- Kumar ARV, Karthikeyan C and Veeresh GK. 1996. Host shifting in *Holotrichia serrata* (Fabricius) (Coleoptera: Scarabaeidae). *Journal of Soil Biology and Ecology* 16(1): 74-77
- Kumar ARV. 1997. Bioecology and management of arecanut white grub, *Leucopholis* spp. (Coleoptera: Scarabaeidae) in Karnataka. Ph D Thesis, UAS Bangalore, pp 23
- Kumar J, Kashyap NP and Chandel RS. 1996. Diversity and density of defoliating beetles in Kullu valley of Himachal Pradesh. *Pest Management and Economic Zoology* 4(1&2): 25-29

- Kumar J, Sharma SD and Lal R. 2007. Host plants of scarabaeid beetles in the lower Kullu valley of Himachal Pradesh. *Pest Management and Economic Zoology* 15(2): 213-216
- Kumar J, Sharma SD and Lal R. 2007. Scarabaeid beetles of Kullu valley, Himachal Pradesh. *Entomon* 32(2): 103-110
- Kumar J, Sharma SD, Lal R and Deor BS. 2005. White grubs damaging maize and paddy crops in Kullu and Mandi districts of Himachal Pradesh. *Pest Management and Ecological Zoology* 13(1): 15-20
- Kumar S, Sankar M, Sethuraman V and Mushtak A. 2009. Population dynamics of white grubs (Coleoptera: Scarabaeidae) in the rose environment of Northern Bangalore, India. *Indian Journal of Science and Technology* 2(1): 46-52
- Kumar S, Mushtak Ali TM and Reddy NA. 2006. Studies on faunal composition of scarabaeids on rose around Bangalore. *Agriculture Science Digest* 26(4): 257-260
- Kumawat SR and Saxena SC. 1993. Relative tolerance of different crops to grubs of *Maladera insanabilis* Brnsk. in semi arid ecosystem. *Indian Journal of Applied Entomology* 7: 73-75
- Kumawat SR. 1992. Studies on biology, ecology and control strategies of white grub, *Maladera* sp. (Coleoptera: Scarabaeidae) in semi arid agro ecosystem of Rajasthan. Ph.D. Thesis, University of Rajasthan, Jaipur.
- Kumbhar SM, Mamlayya AB, Patil SJ and Bhawane RP. 2012. Biology of *Chiloclobo orientalis*. *Journal of Insect Science* 12(127): P. 15
- Lal SS and Pillai KS. 1977. Occurrence of white grub, *Leucopholis coneophora* Bl. (Melolonthinae: Coleoptera) as a pest of tubers of *Dioscorea alata* and *D. esculenta* in Kerela. *Journal of Root Crops* 3(1): 69
- Lamark JBP. 1817. Historie Naturelle Des Animaux San Vertebres. Tome IV, Paris ver desire.
- Latreille PA. 1817. Insects. In: Cuvier (Reghe Animal ed), Paris: pp 1782
- Lefroy HM. 1900. Life history of Indian insects (Coleoptera: *Anomala varians*). *Entomological Memoirs* 11: 143-146

- Leng CW. 1920. Catalogue of the Coleoptera of America, North of Mexico. John D. Sherman, Jr., Mount Vernon, New York. P. 470
- Linnaeus C. 1758. Systema Naturae. Holmiae, laur, Salvii, Tome I: pp 823
- Macleay WS. 1819. Horae Entomologicae, or essaus. *Annulose Animals*, London 1: pp 420
- Mahal MS, Singh R and Singh B. 1991. Mating behaviour of white grub, *Holotrichia consanguinea* Blanchard and its use as index of population estimation. *Journal of Insect Science* 4(1): 27-31
- Mammen KV. 1981. On the occurrence of white grub *Schizonycha ruficollis* F. (Melolonthinae: Scarabaeidae: Coleoptera) as pest of sugarcane in Kerala. *Agricultural Research Journal of Kerala* 19(2): 131-132
- Mathur YS Bhatnagar A and Singh S. 2010. Bioecology and management of phytophagous whitegrubs of India. Technical Bulletin No. 4. All India Network Project on Whitegrubs and Other Soil Arthropods. Agriculture Research Station Durgapura, Jaipur, India.
- Matthiessen JN and Learmonth SE. 1998. Seasonally contrasting activity of african black beetle, *Heteronychus arator* (Coleoptera: scarabaeidae): Implications for Population, Pest Status and Management. *Bulletin of Entomological Research* 88: 443-450
- Mazumdar N and Teotia TPS. 1965. Biology of *Holotrichia serrata* F., a serious pest of palas. *Indian Journal of Entomology* 27(2): 153-159
- Mehta PK, Chandel RS and Mathur YS. 2008. Phytophagous whitegrubs of Himachal Pradesh. Technical Bulletin: Department of Entomology, CSK HPKV, Palampur, P. 13
- Mehta PK, Chandel RS and Mathur YS. 2010. Status of whitegrubs in north western Himalaya. *Journal of Insect Science* 23(1): 1-14
- Mehta PK, Chandel RS, Sharma PC and Verma KS. 2012. Distribution and abundance of white grubs in Himachal Pradesh. In: Proceedings of International Conference on Insect Science on New Horizons in Insect Science (AK Chahravarthy, CTA Kumar, A Verghese and NE Thyagraj, eds), February 14-17, 2013, UAS Bangalore. pp 96

- Meshram PB. 2005. New reports of defoliator *Psilogramma menephron* on *Rauvolfia serpentina* and white grub *Holotrichia serrata* on *Withania somnifera*. *Indian Forester* 131(7): 969-970
- Mishra PN and Singh MP. 1993. Field biology of white grub, *Holotrichia longipennis* on potatoes in Uttar Pradesh hills. *Journal of Indian Potato Association* 20(3-4): 249-251
- Mishra PN and Singh MP. 1996. Studies on the white grubs (Coleoptera: Scarabaeidae) prevalent in Uttar Pradesh hills. *Annals of Agricultural Research* 17(4): 411-413
- Mishra PN and Singh MP. 1997. Determination of predominant species of white grub in Kumaon region of Uttar Pradesh hills and their control. *Annals of Plant Protection Sciences* 5(1): 154-156
- Mishra PN and Singh MP. 1999. Determination of predominant species of whitegrubs in Garhwal regions of Uttar Pradesh hills (India). *Journal of Entomological Research* 23(1): 65-69
- Mishra PN and Singh MP. 1999. Studies on biology and behaviour of white grub, *Schizonycha ruficollis* (Fab.) (Coleoptera: Melolonthinae) in western Himalayas. *Journal of Soil Biology and Ecology* 19 (1&2): 59-70
- Mishra PN and Singh MP. 2006. Biological observations on white grub, *Anomala dimidiata* Hope. (Coleoptera: Rutelinae) in western Himalaya. *Indian Journal of Entomology* 69(2): 113-116
- Mishra PN, Singh MP and Yadava CPS. 1998a. Bionomics of white grub, *Anomala lineatopennis* in western Himalayas. *Indian Journal of Entomology* 60(1): 74-78
- Mishra PN, Singh MP and Yadava CPS. 1998b. Biological observations on white grub, *Holotrichia longipennis* in Garhwal hills of Uttar Pradesh. *Indian Journal of Entomology* 60(1): 79-83
- Mishra PN. 2001. Scarab fauna of Himalayan region and their management. In: Indian Phytophagous Scarabs and their Management: Present Status and Future Strategies (G Sharma, YS Mathur and RBL Gupta, eds) Agrobios (India), Jodhpur, pp 74-85

- Mishra SS. 1995. White grub, *Holotrichia (Lachnosterna) coriacea* (Hope)-a key pest of potatoes in Himachal Pradesh, India. *Journal of Entomological Research* 19(2): 181-182
- Misra SS and Chandel RS. 2003. Potato whitegrubs in India. Technical Bulletin No. 60. CPRI, Shimla, India. P 47.
- Misra SS and Chandla VK. 1989. White grubs infesting potatoes and their management. *Journal of Indian Potato Association* 16(1-2): 29-33
- Misra SS. 1992. White grub, *Holotrichia coriacea* (Hope) infesting ginger rhizomes in Himachal Pradesh. *Journal of Insect Science* 5(1): 96
- Misra SS. 2003. Assessment of avoidable losses in potato yield by managing whitegrubs, *Holotrichia* spp. at higher hills of Himachal Pradesh, India. *Indian Journal of Entomology* 65: 351-356
- Mittal IC and Pajni HR. 1977. New species belonging to Melolonthini (Coleoptera: Scarabaeidae: Melolonthinae) from India. *Entomologist* 2(1): 85-88
- Mittal IC. 2000. Survey of Scarabaeid (Coleoptera) fauna of Himanchal Pradesh (India). *Journal of Entomological Research* 24: 133-141
- Morofsky WF. 1933. Distribution of May beetles (Phyllophaga) in Michigan. *Journal of Economic Entomology* 26(4): 831-834
- Mukunthan N and Nirmala R. 2002. New insect pests of sugarcane in India. *Sugar Tech* 4(3&4): 157-159
- Murayama J. 1954. Icons of the scarabaeid beetles from Manchuria and Korea, I. Nippon Jakujizii Shinkokai, Tokyo, Japan. pp 163
- Naik MI, Sridhara S, Munjunath M, Pradeep S and Channakeshvamurthy H. 2009. Biological parameters of arecanut root grub (*Leucopholis lepidophora* Bl.). *Environment and Ecology* 27(3): 1040-1043
- Nath P and Singh J. 1981. Monitoring of rootgrubs in Varanasi and Mirzapur districts of eastern Uttar Pradesh. *Pesticides* 15(8): 7-9
- Nath P and Singh J. 1987. White grubs- a new pest problem in some pockets of eastern Uttar Pradesh (India). *Indian Journal of Entomology* 49(2): 181-185

- Nath V and Srivastva AS. 1982. Bionomics of white grub, *Holotrichia consanguinea* Blanchard. *Indian Journal of Plant Protection* 10(1-2): 83-84
- Nath V, Srivastva AS, Dhari R, Singh R and Verma RS. 1978. Effect of light trap on the beetles of white grub, *Holotrichia consanguinea* Blanchard. *Indian Journal of Entomology* 40(4): 465-466
- Nehru CR and Jayarathnam 1988. Control of white grub (*Holotrichia serrata* F.) attacking rubber at the nursery stage in India. *Indian Journal of Natural Rubber Research* 1(1): 38-41
- Nigam PM and Avasthy BK. 1978. Survey of white grub, *Holotrichia consanguinea* Blanch. at different depths of soil. *Indian Journal of Entomology* 40 (1): 90-91
- Nirula KK. 1958. Investigation on the pests of coconut palm. Part V. *Leucopholis coneophora* Burm. *Indian Coconut Journal* 12: 10-34
- Nirula KK. Antoney J and Menon KPV. 1952. Investigations on the pests of coconut palm: the rhinoceros beetle. *Indian Coconut Journal* 5(2): 57-70
- Padmanaban B and Daniel M. 2003. Biology and bionomics of palm white grub, *Leucopholis burmeisteri*. *Indian Journal of Entomology* 65(4): 444-452
- Paharia KD. 1982. Reports on the team of experts on the visit to Uttar Pradesh to investigate the factors responsible for the declining trend of groundnut yield in the state. *Plant Protection Bulletin* 34(3-4): 33-38
- Pal SK. 1977. Relative abundance of scarabaeid beetles on light trap. *Indian Journal of Applied Entomology* 39(2): 197-200
- Pandey AK and Sharma BM. 2006. A report on insect pests of Ladakh region. *Insect Environment* 11(4): 148-151
- Pandit NC. 1995. White grub, *Rhinoptia meridionous* Arrow (Scarabaeidae: Coleoptera). A serious pest of female, *Boehmeria nivera* Guad. *Environment and Ecology* 13(1): 245-246
- Pardo LLC, Motoya LJ, Bellotti AC, Schoonhoven A. Van 2005. Structure and composition of the white grub complex (Coleoptera: Scarabaeidae) in agroecological systems of North Cauca, Columbia. *Florida Entomologist* 88(4): 355-363

- Patel BD and Patel GM. 1999. First record of new species of white grubs in Gujarat. *Gujarat Agricultural University Research Journal* 25(1): 110-111
- Patel RC, Patel BS and Parmar BR. 1982. *Autoserica nathani* Frey, new record of a species of white grub from Gujarat. *Gujarat Agricultural University Journal* 8(1): 40
- Patel RM, Patel GG and Vyas HN. 1967. Further observations on the biology and control of white grubs (*Holotrichia* sp. near *consanguinea* Blanch.) in soil, affecting groundnut in Gujarat. *Indian Journal of Entomology* 29: 170-176
- Pathania M, Chandel RS, Verma KS and Mehta PK. 2012. A survey study of potato white grubs in Himachal Pradesh. In: Proceeding of National Seminar on Indian Agriculture, Remedies and Road map, August 4-5, 2012, CSK HPKV, Palampur. pp 60
- Patil SM and Adsule VM. 1991. Population density of different stages of *Leucopholis lepidophora* Blanchard infesting sugarcane (Coleoptera: Melolonthinae). *Indian Sugar* 41(3): 169-171
- Patil SM, Chaugule GB, Gajare BP and Ajri DS. 1986. New record of *Leucopholis lepidophora* (Coleoptera: Melolonthinae) as a pest of sugarcane and paddy in Maharashtra. *Current Research Reporter*, Mahatma Phule Agricultural University 2(1): 151-152
- Petty GJ. 1977. Beetle pests of pineapples: Some Biological Aspects. *Citrus and Subtropical-Fruit Journal* 529: 4-7
- Pinto RZJ, Zanuncio HS, Zanuncio TV and Lacerda MC. 2004. Coleoptera collected with light traps in plantation of *Eucalyptus urophylla* in the Brazilian Amazonian Region *Ciencia Florestal* 14(1): 111-119
- Price DL. 2004. Species diversity and seasonal abundance of scarabaeid dung beetles (Coleoptera: Scarabaeidae, Geotrupidae and Trogidae) attracted to cow dung in central New Jersey. *Journal of New York Entomology Society* 112: 334-347
- Pruthi HS and Batra HN. 1960. Some important fruit pests of North West India. *Bulletin of ICAR*, New Delhi. No. 80: 48-54

- Rai BK, Joshi HC, Rathode YK, Dutta SM and Shinde VKR. 1969. Studies on the bionomics and control of white grub *Holotrichia consanguinea* Blanch. in Lalsot district, Raipur, Rajasthan. *Indian Journal of Entomology* 31: 132-142
- Rajendran TP and Chandla TP. 1986. Pests. In: Potato in Himachal Pradesh (KS Krishna Prasad and NP Sukumaran, eds) Technical Bulletin No. 15. Central Potato Research Institute, Shimla, pp 43-46
- Rao NS. 1993. Status of *Heteronychus lioderes* Redt. (Dynastinae: Scarabaeidae) infesting crops in Manipur. *Journal of Soil Biology and Ecology* 13(1): 69-71
- Raodeo AK and Deshpande SV. 1987. White grubs and their management. Research Bulletin of Marathwada Agricultural University, 11: Special information Bulletin No. 3. P. 77
- Raodeo AK. 1974. Notes circulated in the meeting of working group on white grubs on March 16th, 1974 in ICAR
- Ratcliffe BC and Zubair A. 2010. Additions to the distribution of scarabaeidae (Insecta: Coleoptera) in northern Pakistan. *Pakistan Journal of Zoology* 42(6): 827-830
- Reddy SGE. 2011. New report of coleopteran beetles on muga food plants in Assam (India). *Munis Entomology and Zoology* 6(2): 1010-1011
- Regnier R. 1950. Les recherches francaises sur le hanneton commun *Melolontha melolontha* L. Process- Verbaux du VIIe Congress Inter d' Entomologie, Stockholm, 1950. pp. 672-678
- Reinhard HJ 1941. The life history of *Phyllophaga tristis* (F.) and allied forms. *Journal of Economic Entomology* 34(4): 526-532
- Reinhard HJ. 1940. The life history of *Phyllophaga lanceolata* (Say) and *Phyllophaga crinita* Burmeister. *Journal of Economic Entomology* 33(3): 572-578
- Reinhard HJ. 1946. Life histories of some Texas *Phyllophaga*. *Journal of Economic Entomology* 39(4): 475-480
- Ritcher PO. 1958. Biology of Scarabaeidae. *Annual Review of Entomology* 3: 311-334

- Ritcher PO. 1961. Description of some North Indian scarabaeid larvae (Coleoptera). *Indian Journal of Entomology* 23(1): 13-19
- Rodriguez J, Sinse Luis ML and Grillo Ravelo VH. 2002. Timing of employment of light traps for the capture of scarabaeids (Coleoptera: Scarabaeidae) in pineapple plantations in Ciego de Avila. *Centro-Agricola* 29(1): 71-74
- Rohilla HR, Singh HV and Yadav TP. 1981. White grubs-increasing menace in Haryana. *Hissar Agricultural University Journal of Research* 11(2): 256-458
- Saha S and Raychaudhuri D. 1998. Leaf chafer beetles, (Scarabaeidae: Rutelinae: Adoretini, Parastasiini) of Buxa Tiger Reserve, Jalpaiguri, West Bengal, India. *Insect Environment* 4(2): 59
- Saini RK and Verma AN. 1991. Effectiveness of light traps in suppressing populations of red hairy caterpillar, *Amsacta moorei* Butler. *Haryana Agricultural University Journal of Resarch* 21: 250-251
- Saini RK and Yadav PR. 2007. Sampling, surveillance and forecasting of pests. In: Entomology, Novel Approaches (PC Jain and MC Bhargava, eds) New India Publishing Agency, New Delhi. pp 19-42
- Sanders JS and Fracker SB. 1916. *Lachnostenra* Records in Wisconsin. *Journal of Economic Entomology* 9(2): 253-261
- Schread JC. 1953. Control of the Japanese beetle and the asiatic garden beetle. *Connecticut Agriculture Experiment Station Circulation* 184: pp 10
- Scopoli JA. 1763. *Entomologia Carolinica Vindobonas*: pp 420
- Sekhar JC Sharma RK and Singh NN. 2000. Incidence and distribution behaviour of flower eating beetles on maize (*Zea mays* L.). *Indian Journal of Entomology* 62(1): 1-4
- Shah L. 1983. *Anomala nainitalii* (Coleoptera: Scarabaeidae-Rutelinae) a new species from Nainital. *Entomon* 8(4): 403-404
- Shah NK and Garg DK. 1985. White grubs and their beetles (Coleoptera: Scarabaeidae) in Uttar Pradesh hills. *Indian Journal of Entomology* 47: 240-244

- Shah NK and Garg DK. 1988. Seasonal abundance of whitegrub beetles on a light trap. *Indian Journal of Ecology* 15(1): 105-108
- Shah NK and Shah L. 1990. Bionomics of *Holotrichia longipennis* BL. (Coleoptera: Melolonthinae) in western Himalayas. *Indian Journal of Forestry* 13(3): 234-237
- Shah NK. 1986. Black beetle-a serious rice pest in western Himalayas. *International Rice Research Newsletter* 11(4): 36-37
- Sharma AN and Shukla AK. 1991. White grub: a new pest of soybean in Madhya Pradesh, India. *Tropical Pest Management* 37(2): 186-187
- Sharma B and Tara JS. 1985. Insect pests of mulberry plant (*Morus* sp.) in Jammu region of Jammu and Kashmir state. *Indian Journal of Sericulture* 24(1): 7-11
- Sharma PL and Bhalla OP. 1964. A survey study of insect pests of economic importance in Himachal Pradesh. *Indian Journal of Entomology* 26: 318-331
- Sharma PL, Aggarwal SC and Attri BS. 1971. Beetles eating pome and stone fruits in Himachal Pradesh and their control. *Himachal Journal of Agricultural Research* 1(1): 57-60
- Sharma PL, Attari BS and Aggarwal SC. 1969. Beetles causing damage to pome and stone fruits in Himachal Pradesh. *Indian Journal of Entomology* 31(4): 377-379
- Sharma RM, Mitra B and Chakraborty P. 2004. Beetles of Kalatop-Khajjiar wild life Sanctuary, Himachal Pradesh. *Zoo's Print Journal* 19(9): 1626
- Shekhar JC, Sharma RK and Singh NN. 2000. Incidence and distribution behaviour of flower eating beetles on maize, *Zea mays* L. *Indian Journal of Entomology* 62(1): 1-4
- Singh AP, Bhandari RS and Verma TD. 2005. Important insect pests of popular in agroforestry and strategies for their management in northwestern, India. *Agroforestry Systems* 63(1): 15-26
- Singh C. 1964. Temperate fruit pests. In: *Entomology in India* (NC Pant, eds), Entomological Society of India, Delhi pp 213-226.
- Singh J, Mann JS and Dhaliwal JS. 1997. Biology of flower beetle, *Chiloloba acuta* (Wiedemann) (Scarabaeidae: Coleoptera). *Journal of Insect Science* 10(2): 150-152

- Singh M and Dogra GS. 1984. Relative efficacy of some insecticides (Hope). In: Proceedings of the Workshop on High Altitude Entomology and Wildlife Ecology, Zoological Survey of India, Solan. pp 181-184
- Singh MP, Bisth RS and Mishra PN. 1999. Preference of host plant by white grub beetle, *Holotrichia longipennis* in Garhwal Himalaya. *Indian Journal of Entomology* 61(1): 7-10
- Singh MP, Bisth RS and Mishra PN. 2003. Distribution of white grub fauna in Garhwal hills of western Himalayas. *Indian Journal of Entomology* 65(2): 217-221
- Singh MP, Mishra PN and Bisth RS. 2003. Nature and extent of damage of white grub *Lachnostenra (Holotrichia) longipennis* Blanch. under various farming situations of Uttaranchal hills. *Indian Journal of Entomology* 66(3): 277-280
- Singh OP and Singh KG. 1994. Record of white grub, *Holotrichia consanguinea* (Blanchard) infestation and its effect on yield of soybean in Madhya Pradesh. *Journal of Insect Science* 7(1): 100-101
- Singh R, Lakhpal SC and Karkara BK. 2004. Pests of strawberry in Paonta valley of Himachal Pradesh. *Insect Environment* 10(2): 81-82
- Singh SS Mishra PN and Nainwal NC. 2002. Status and management of white grub (Coleoptera: Scarabaeidae) in horticultural crops. *Progressive Horticulture* 34(1): 6-16
- Sood P, Chandel RS, Mehta PK and Chaudhary A. 2010. Diversity of soil insects in kidney bean ecosystem and their management in north-western Himalaya. *Journal of Food Legumes* 23(1): 66-70
- Sood P, Mehta PK, Chandel RS and Chandel YS. 2009. Population dynamics of whitegrubs in the offseason pea ecosystem and their management under temperate region of North-Western Himalaya. *Journal of Insect Science* 22(4): 370-376
- Sood P, Mehta PK, Chandel RS and Chaudhary A. 2007. Soil arthropods in rajmash and their management under high altitude of North-Western Himalayas, pp. 175-176. In: Proceedings of National Symposium on Legumes for Ecological Sustainability: Emerging Challenge and Opportunities, November 3-5, 2007, Indian Institute of Pulse Research, Kanpur, India.

- Srivastava A and Kumar P. 2009. New record of *Popillia lucida* Newman on paddy in Himachal Pradesh (India). *Directorate of Rice Research Newsletter* 7(2): 12-13
- Srivastava A, Rana S, Prasar A, Sood A, Kaushik RP and Kumar P. 2009. Paddy insect pests and diseases management. *Indian Farming* 58(9): 24-29
- Srivastava BK and Khan RM. 1963. Bionomics and control of *Holotrichia insularis* (Melolonthidae: Coleoptera). *Indian Journal of Entomology* 26(5): 347-354
- Stearns LA. 1937. Important insects of the year. *Bulletin-Del-Agriculture-Experimental-Station* 207: 29-30
- Stebbing EP. 1902. Departmental notes on insects that affects forestry. 1: 1-149
- Stebbing EP. 1914. Indian forest insects of economic importance, coleoptera 16: 648
- Stewart PA and Lam Jr JJ. 1968. Catch of insects at different traps equipped with blacklight lamps. *Journal of Economic Entomology* 61(5): 1227-1230
- Suhartawn 1997. Phenology and biology of *Holotrichia helleri* Brnsk., a sugarcane grub at Prajekan Sugar Estate. *Bulletin-Pusat-Penelitian-Perkebunan-Gula-Indonesia* 145: 21-37
- Suhartwan 1995. Mechanical control of white grub *Lepidiota stigma* F. at Madukismo Sugar Estate. *Majalah-Penelitian-Gula* 31(3/4): 45-53
- Sushil SN, Mohan M, Selvakumar G and Bhatt JC. 2006. Relative abundance and host preference of white grubs (Coleoptera: Scarabaeidae) in Kumaon hills of Indian Himalayas. *Indian Journal of Agriculture Sciences* 76(5): 338-339
- Sushil SN, Pant SK and Bhatt JC. 2004. Light trap catches of white grub and its relation with climatic factors in Kumaon region of North Western Himalaya. *Annals of Plant Protection Sciences* 12(2): 254-256
- Taggar GK, Singh R, Kumar R and Pathania PC. 2012. First report of flower chafer beetle, *Oxyconetia versicolor* on pegiopea and mungbean from Punjab, India. *Phytoparasitica* 40(3): 207-211
- Thakare VG and Zade VS. 2012. Diversity of beetles (Insecta: Coleoptera) from the vicinity of Semadoh-Makhala road, Sipnarange, Melghat Tiger Reserve, (MS) India. *Bioscience Discovery* 3(1): 112-115

- Thakur ML. 2000. Nursery pests. In: Forest Entomology (Ecology and Management). Sai Publishers, Dehradun. pp 98-123.
- Thakur SS, Kashyap NP and Mehta PK. 1996. New record of a beetle *Popillia cyanae* Hope on rajmash in Himachal Pradesh. *Journal of Insect Science* 9(2): 184
- Thakur Y, Sharma AK, Dhiman KR and Chandla VK. 2008. Management of whitegrub, *Brahmina coriacea* (Hope) in potato (*Solanum tuberosum*) fields of Fagu (Shimla hills). In: IInd Congress on Insect Science, February 21-22, PAU, Ludhiana. pp 232
- Theurkar SV, Patil SB, Ghadage MK, Zaware YB and Madan SS. 2012. Distribution and abundance of white grubs (Coleoptera: Scarabaeidae) in Khed Taluka, parts of Northern western ghats, MS, India. *International Research Journal of Biological Sciences* 1(7): 58-60
- Thyagaraj NE and Gubbaiah 1996. Record of the chaffer beetle, *Popillia pulchripes* Arrow (Rutelinae; Scarabaeidae: Coleoptera) as a pest on Banana, *Musa indica* L. *Insect Environment* 2(2): 52
- Thyagraj NE. 2003. *Heteronychus lioderes* Redt. (Coleoptera: Dynastinae): A new record on Banana (*Musa indica* L.) and Areca (*Areca catechu* L.). *Insect Environment* 9(1): 5
- Tischler W. 1949. Grundzüge der terrestrischen Tierökologie Braunschweig.
- Tivari SN, Kumar A, Singh M and Kashyap NP. 1991. White grub species prevalent in Himachal Pradesh (India). *Journal of Entomological Research* 15(1): 301-306
- Tripathi GM and Gupta BP. 1985. Studies on collection of beetles at light trap at Chaubattia in Uttar Pradesh hills. *Progressive Horticulture* 17(4): 347-353
- Vasu HD. 1969. *Ricinus communis* Linn. as a new host record for the white grub (*Lachnostenus consanguinea* Blanch.) in India. *Indian Journal of Entomology* 32(2): 182-183
- Veeresh GK 1988. Whitegrubs. In: Applied Soil Biology and Ecology (GK Veeresh and D Rajgopal, eds) (2nd Edition) IBH, New Delhi, pp 243-282

- Veeresh GK, Vijayendra M, Reddy NV and Rajanna C. 1982. Bioecology and management of areca white grubs (*Leucopholis* spp.) (Coleoptera: Scarabaeidae: Melolonthinae). *Journal of Soil Biology and Ecology* 2(2): 78-86
- Veeresh GK. 1974. Root grubs control campaign in Karnataka. *White Grubs Newsletter* 1: 4-6
- Veeresh GK. 1977. Studies on root grubs in Karnataka with special reference to bionomics and control of *Holotrichia serrata* F. (Coleoptera: Melolonthinae). *UAS Monograph Series No. 2*, Bangalore. P. 87
- Verma AN. 1975. Occurrence of white grubs in Haryana. *Current Science* 44(1): 32-33
- Verma GC and Bindra OS. 1972. New record of defoliating beetles on falsa. *Indian Journal of Entomology* 35(3): 254
- Verma KS, Chandel RS, Sharma PC and Mehta PK. 2012. Insect-pest complex of maize in Himachal Pradesh. In: Proceeding of National Seminar on Indian Agriculture, Remedies and Road map, August 4-5, 2012, CSK HPKV, Palampur. pp 86
- Vijayamahan Reddy N. 1976. Preparation on the larval taxonomy of coffee root grubs. M.Sc. Thesis, UAS, Bangalore
- Viraktamath S and Kumar KHD. 2005. Efficacy of two types of light traps in attracting insect pests of economic importance. *Insect Environment* 10(4):162-164
- Viswanathan PRK and Shamanna HV. 1972. Cockchafers associated with coffee and further observations of *Holotrichia nilgiria*. *Journal of Coffee Research* 2(1): 20-23
- Vora VJ and Ramakrishnan N. 1991. Attraction of beetles, *Holotrichia consanguinea* Blanchard (Scarabaeidae: Coleoptera) to light and host plant. *Indian Journal of Entomology* 53(1): 45-49
- Weis-Fogh T. 1947-48. Ecological investigations on mites and Collemboles in the soil. *Natura Jutlandica* 1: 139-270
- Wightman JA, Dick KM, Ranga Rao Gv, Shanover TG and Gold CG. 1990. Pests of groundnut in the semiarid tropics. In: Insect Pests of Food Legumes (SR Singh, ed) John Wiley & Sons Ltd. pp. 243-322

Yadav CPS and Vijayvergia JN. 2000. Integrated management of whitegrubs in different cropping systems, pp 105-122. In: Integrated Pest Management System in Agriculture (RK Upadhayay, KG Mukherji and OP Dubey, eds) Aditya Books Pvt. Ltd, New Delhi, India.

Yadava CPS and Sharma GK. 1995. Indian white grubs and their management. Technical Bulletin No.2, Project Coordinating Centre AICRIP of whitegrub. ICAR, New Delhi, P. 26

Zahoor MK, Suhail A, Zulfaqar Z, Iqbal J and Anwar M. 2003. Biodiversity of scarab beetles (Scarabaeidae: Coleoptera) in agroforestry area of Faisalabad. *Pakistan Entomologist* 25(2): 119-126

Zhou YJ, Wang RS, Zhang XD and Lin YC. 1990. Occurrence and control of *Brahmina amurensis* in Heilonjiang. *Forest Pest and Diseases* 4: 18-19