

BIODATA

Dr. Uday Homkar - Senior Research Officer & Head of the Branch



Dr. Uday Homkar

Senior Research Officer & Head

Phone: 09229844788

E-mail: homkar_uday@rediffmail.com

- I have done my M.Sc. in Zoology (Entomology) and Ph.D. in Wildlife. I have been involved in research and training programmes in the area of Wildlife, Biodiversity & medicinal plants conservation, NTFPs and resource surveys, *Ex-situ* conservation of medicinal and important RET species, Development of Nursery and Cultivation of medicinal plants, Pest and diseases control of forestry specie, sacred groves. Wild animal translocation, Avifauna & aquatic study. My research interests and priorities are mainly focused on above mentioned thrust areas.

Specialization: Entomology, Medicinal plant, Wildlife

Current Projects/Responsibility: As Branch head, responsibilities of execution of branch activities. Execution of following projects as PI.

- *Ex-situ* conservation of medicinally important wild tuberous /rhizomatic plants and studies on their phenology and growth.
- Development of nursery techniques and models for plantation of rare endangered and threatened (RET) species in natural condition.
- Up-gradation and Renovation of Forestry museum at State Forest Research Institute, Jabalpur.
- Development of cultivation techniques of Van jeera (*Centrantherum anthelminiticum* (L) Kantze).
- औषधीय पौधों के जीन बैंक एवं रोपणी का प्रबंधन एवं विकास।

and

- Organize trainings and exhibitions of SFRI's activities.

- Guidance to farmers, students, forest staff etc. regarding Nursery & Plantations.
- Photography in different occasion.

Professional Recognition:

- Working as Senior Research officer and Head of the Branch
- Registered as Ph. D. guide under Rani Durgawati Vishvavidhyalaya, Jabalpur (M.P.).
- Ph. D. supervisor of three students under Rani Durgawati Vishvavidhyalaya, Jabalpur (M.P.)

Key Publications:

(A) Research papers published:

- Patel, R.N., Patel, D, Bhandari, R. Homkar, U., Gill, A.K. (2014): Potential of botanicals for the management of forest insect pest of Madhya Pradesh , India an overview. *International Journal of Multidisciplinary Research and Development*. Vol. 1(7). 135-139.
- Mesharam, P.B. and Homkar Uday (2011): Effect of sowing date and Biopesticide cackes on density of white grub *Holotrichia serrata* in a teak Nursery. *Journal of Tropical Forest Science*, Forest Research Institute, Malaysia. Vol. 24 (3) 1-5.
- Shrivastava, J.L., Sharma Rubi, Jha Alka Masih S.K. and Homkar Uday (2005): Ex-situ conservation approach through training cum demonstration programme on cultivation of medicinal plants;. *Journal of Non-Timber Forest Product*. Vol. 12 (1):1-7.
- Shrivastava, J.L., Masih S.K. Homkar Uday, Sharma Rubi and Shrivastava A.(2007): An assessment of plant diversity in proposed biodiversity eco park – Bargi Hills Jabalpur (M.P.) Sci. Front Vol -1. (Dec.): 156-169.
- Homkar Uday (2009): *Virachola isocrates*: A new fruit pest reported on Garari *Cleistanthus collinus* (Roxb.) Benth. Ex. Hook. F. in Madhya Pradesh.
- Shrivastava, J.L., Negi, C.M.S. Homkar Uday and Masih S.K. (2008): Tree species diversity in forest communities of Pench Tiger Reserve Seoni *Indian Journal of Tropical Biodiversity, Jabalpur* Vol. 16 (1):51-60.

- Shrivastava, J.L., Masih S.K., Homkar Uday, Sharma Rubi and Shrivastava, A. (2009): Existing plant diversity in proposed biodiversity eco park, Bargi Hills, Jabalpur(M.P.); *My Forest* Vol. 45 (1):69-88.
- C.L. Choudhary, Uday Homkar and Praveen Ojha (2012): A check list of fish fauna of Narsinghpur district of Madhya Pradesh. *Indian Jour. Trop. Biodiv.*; Vol. 20 (1) :99-102.
- Homkar Uday, Chandra, K.K., Shrivastava, J.L. and Tiwari K.P. (1998): Natural colonization of VA-Mycorrhiza in roots of medicinal Plants growing under gene bank. *Vaniki Sandesh* Vol XXII (3) : 7-10.
- Homkar Uday (1998): An odd toothed Black buck (*Antelope cervicapra cervicapra* Linn.) *Journal of Tropical Forestry* Vol 14 (IV) : 265-266.
- Homkar Uday, Shrivastava, J.L. and Tiwari K.P. (1999): A note on vegetative propagation of *Costus speciosus* (KEON SM. by stem cutting inside the green net house. *Vaniki Sandesh* Vol XXIII (1): 33-35.
- Homkar Uday and Shrivastava, J.L.(2000): A note on avifauna of State Forest Research Institute, Jabalpur, *Vaniki Sandesh* Vol XXIV (3): 12-16.
- Homkar Uday and Shrivastava, J.L.(2002): An observation on avian diversity of Choral P3 area of Indore District (M.P.) *Journal of Tropical Forestry* Vol.18 (1) :76-78.
- Masih S.K Shrivastava, J.L. and Homkar Uday (2003): Documentation of traditional Knowledge with reference to Wild Food Plants In Pench Tiger Reserve Seoni M.P. *Vaniki Sandesh* Vol. 27 (2&3):16-23.
- Shrivastava, Ravi, Shrivastava, J.L. Homkar Uday and Masih S.K. (2003): Some observations on variations in fruits of *Cleistanthus collinus* (Roxb.) Garari collected from seoni. *Vaniki Sandesh* Vol. 27 (1):1-2.
- Shrivastava, Atul and Homkar Uday (2003): Integrated nutrition in forage crops. *Vaniki Sandesh* Vol. 27 (4):30-32.
- Homkar Uday, Shrivastava, J.L. and Masih S.K. (2004): *Asparagus racemosus* Will. (Satawar) Cultivation: Cost benefit analysis; *Vaniki Sandesh* Vol. 28 (1):8-13.

Praveen Ojha and Homkar Uday (2005): Nutritive values of vermicompost prepared from various decomposable organic wastes in different combinations. *Vaniki Sandesh* Vol. 29 (3):13-16.

Shrivastava, J.L., Masih S.K. and Homkar Uday (2007): Cultivation of medicinal plants to develop a model under old teak and bamboo plantation at SFRI premises, Jabalpur *Vaniki Sandesh* Vol. 31 (1):17-24.

Shrivastava, J.L., Masih S.K. and Homkar Uday (2005): Identification of best germplasm of MAPs from cultivated and natural forest areas; *Vaniki Sandesh* Vol. 31 (3):1-8.

Praveen Ojha and Homkar Uday (2007):Management of biodegradable urban solid waste through vermicomposting into valuable organic manures. *Vaniki Sandesh* Vol. 31 (3):9-12.

Shrivastava, J.L., Masih S.K. and Homkar Uday (2008): Impact of training and extension activity of cultivation, processing and marketing of medicinal and aromatic plants. *Vaniki Sandesh* Vol. 32 (1):15-24.

Shrivastava, J.L., Masih S.K. and Homkar Uday (2008): Forest resources and their economic importance in Pench Tiger Reserve Seoni (M.P.) *Vaniki Sandesh* Vol. 32 (4):29-37.

Gautam Sheshmani, Shrivastava, J.L., Masih S.K. and Homkar Uday (2008): Ethnobotanical plants of shyamgiri P-3 area, Panna forest division; *Vaniki Sandesh* Vol. 32 (2):9-17.

शुक्ल पी. के.,के नायक, मेशराम, पी. बी., सोनी के. के. एवं होमकर उदय (2009): सागौन एवं आंवले की रोपणियों में होने वाले नुकसान एवं उनका निदान *वानिकी संदेश*, वर्ष 33 (2) : 12–15

डॉ. उदय होमकर, (2011): बेर पर लाख की खेती : अतिरिक्त आमदनी की संभावना का स्रोत *वानिकी संदेश* .

(B) Technical Bulletins published:

1. जे. एल. श्रीवास्तव, उदय होमकर एवं एस. के. मसीह: औषधीय पौधों की खेती
2. K.L. Verma and Uday Homkar: Nursery and Plantation techniques of tree species.
3. राम प्रकाश, आर. के. पाण्डेय, उदय होमकर एवं मंजू होमकर: संग्रहित लाख में समय के साथ वजन में होने वाली कमी का अध्ययन.

4. राम प्रकाश, आर. के. पाण्डेय, उदय होमकर (2012) साल बोरर से साल वनों की सुरक्षा : प्रशिक्षण पाठ्य सामग्री Pp -10.

(C) Technical Brochure published:

1. Leaflets of 10 important medicinal plant species.
2. आर. के. पाण्डेय एवं उदय होमकर (2013) महत्वपूर्ण प्रजाति मालकांगनी की रोपणी तकनीक पोस्टर
3. आर. के. पाण्डेय एवं उदय होमकर (2013) महत्वपूर्ण प्रजाति बायबिडंग की रोपणी तकनीक पोस्टर

(D) Book /Chapter published in book:

1. Gautam Sheshmani, Shrivastava, J.L., Masih S.K. and Homkar Uday (2008): Plants diversity in Shyamgiri P-3 area in Panna Forest Division; *Role of Biotechnology in Medicinal and Aromatic Plants*. Ukaaz Publication, Hyderabad, Vol. XX:173-244.
2. Shrivastava, J.L., Masih S.K. Homkar Uday Sharma Rubi and Shrivastava A.(2005):Phytosociological structure of plants community in proposed biodiversity eco park : Bargi Hills Area, Jabalpur of Madhya Pradesh. *Role of Biotechnology in Medicinal and Aromatic Plants*. Ukaaz Publication, Hyderabad, Vol. XVIII:265-277.

(E) Seminar Workshop proceedings prepared/ published:

- 1- सी.पी.राय, आर. के. पाण्डेय एवं उदय होमकर (2011) कृषकों, व्यापारियों तथा उद्यमियों की क्रय-विक्रय अनुबंध हेतु बैठक। Pp -4

2- Training course material prepared /published:

- उदय होमकर (2005) लाख की खेती : प्रशिक्षण पुस्तिका.
- उदय होमकर (2012) साल बोरर से साल वनों की सुरक्षा: प्रशिक्षण पुस्तिका
- उदय होमकर (2012) साल छेदक कीट की पहचान एवं उनका नियंत्रण. प्रशिक्षण हेतु पोस्टर
- उदय होमकर (2012) कीट ग्रसित साल वृक्षों का लक्षणों के आधार पर श्रेणीकरण. प्रशिक्षण हेतु पोस्टर.

Special Achievements:

- Identification of a new fruit pest on Garari (*Cleistanthus collinus* (Roxb.) ex. Hook. F.) (First time in Madhya Pradesh.)
- Cultivation of Lac on different host plants.
- Mass translocation of spotted deer through oral sedation method. (First time in Madhya Pradesh and Chhattisgarh).
- Biological control of teak leaf defoliator and skeletonizer.

- Conservation of more than 400 medicinal plant species in Genebank.
- Development of nursery technique of RET species.
- Development of Cultivation technique of medicinal plants.
- People's biodiversity register (PBR), Sacred groove study

Current Projects/Responsibility: As Branch head, responsibilities of execution of branch activities. Execution of following projects as PI.

- *Ex- situ* conservation of medicinally important wild tuberous /rhizomatic plants and studies on their phenology and growth.
 - Development of nursery techniques and models for plantation of rare endangered and threatened (RET) species in natural condition.
 - Up-gradation and Renovation of Forestry museum at State Forest Research Institute, Jabalpur.
 - Development of cultivation techniques of Van jeera (*Centrantherum anthelminiticum* (L) Kantze).
 - औषधीय पौधों के जीन बैंक एवं रोपणी का प्रबंधन एवं विकास।
- and
- Organize trainings and exhibitions of SFRI's activities.
 - Guidance to farmers, students, forest staff etc. regarding Nursery & Plantations.
 - Photography in different occasion.

Professional Recognition:

- Working as Senior Research officer and Head of the Branch
- Registered as Ph. D. guide under Rani Durgawati Vishvavidhyalaya, Jabalpur (M.P.).
- Ph. D. supervisor of three students under Rani Durgawati Vishvavidhyalaya, Jabalpur (M.P.)

Key Publications:

(F) Research papers published:

Patel, R.N., Patel, D, Bhandari, R. Homkar, U., Gill, A.K. (2014): Potential of botanicals for the management of forest insect pest of Madhya Pradesh , India an overview. *International Journal of Multidisciplinary Research and Development*. Vol. 1(7). 135-139.

- Mesharam, P.B. and Homkar Uday (2011): Effect of sowing date and Biopesticide cackes on density of white grub *Holotrichia serrata* in a teak Nursery. *Journal of Tropical Forest Science*, Forest Research Institute, Malaysia. Vol. 24 (3) 1-5.
- Shrivastava, J.L., Sharma Rubi, Jha Alka Masih S.K. and Homkar Uday (2005): Ex-situ conservation approach through training cum demonstration programme on cultivation of medicinal plants;. *Journal of Non-Timber Forest Product*. Vol. 12 (1):1-7.
- Shrivastava, J.L., Masih S.K. Homkar Uday, Sharma Rubi and Shrivastava A.(2007): An assessment of plant diversity in proposed biodiversity eco park – Bargi Hills Jabalpur (M.P.) Sci. Front Vol -1. (Dec.): 156-169.
- Homkar Uday (2009): *Virachola isocrates*: A new fruit pest reported on Garari *Cleistanthus collinus* (Roxb.) Benth. Ex. Hook. F. in Madhya Pradesh.
- Shrivastava, J.L., Negi, C.M.S. Homkar Uday and Masih S.K. (2008): Tree species diversity in forest communities of Pench Tiger Reserve Seoni *Indian Journal of Tropical Biodiversity, Jabalpur* Vol. 16 (1):51-60.
- Shrivastava, J.L., Masih S.K., Homkar Uday, Sharma Rubi and Shrivastava, A. (2009): Existing plant diversity in proposed biodiversity eco park, Bargi Hills, Jabalpur(M.P.); *My Forest* Vol. 45 (1):69-88.
- C.L. Choudhary, Uday Homkar and Praveen Ojha (2012): A check list of fish fauna of Narsinghpur district of Madhya Pradesh. *Indian Jour. Trop. Biodiv.*; Vol. 20 (1) :99-102.
- Homkar Uday, Chandra, K.K., Shrivastava, J.L. and Tiwari K.P. (1998): Natural colonization of VA-Mycorrhiza in roots of medicinal Plants growing under gene bank. *Vaniki Sandesh* Vol XXII (3) : 7-10.
- Homkar Uday (1998): An odd toothed Black buck (*Antelope cervicapra cervicapra* Linn.) *Journal of Tropical Forestry* Vol 14 (IV) : 265-266.
- Homkar Uday, Shrivastava, J.L. and Tiwari K.P. (1999): A note on vegetative propagation of *Costus speciosus* (KEON SM. by stem cutting inside the green net house. *Vaniki Sandesh* Vol XXIII (1): 33-35.
- Homkar Uday and Shrivastava, J.L.(2000): A note on avifauna of State Forest Research Institute, Jabalpur, *Vaniki Sandesh* Vol XXIV (3): 12-16.

- Homkar Uday and Shrivastava, J.L.(2002): An observation on avian diversity of Choral P3 area of Indore District (M.P.) *Journal of Tropical Forestry* Vol.18 (1) :76-78.
- Masih S.K Shrivastava, J.L. and Homkar Uday (2003): Documentation of traditional Knowledge with reference to Wild Food Plants In Pench Tiger Reserve Seoni M.P. *Vaniki Sandesh* Vol. 27 (2&3):16-23.
- Shrivastava, Ravi, Shrivastava, J.L. Homkar Uday and Masih S.K. (2003): Some observations on variations in fruits of *Cleistanthus collinus* (Roxb.) Garari collected from seoni. *Vaniki Sandesh* Vol. 27 (1):1-2.
- Shrivastava, Atul and Homkar Uday (2003): Integrated nutrition in forage crops. *Vaniki Sandesh* Vol. 27 (4):30-32.
- Homkar Uday, Shrivastava, J.L. and Masih S.K. (2004): *Asparagus racemosus* Will. (Satawar) Cultivation: Cost benefit analysis; *Vaniki Sandesh* Vol. 28 (1):8-13.
- Praveen Ojha and Homkar Uday (2005): Nutritive values of vermicompost prepared from various decomposable organic wastes in different combinations. *Vaniki Sandesh* Vol. 29 (3):13-16.
- Shrivastava, J.L., Masih S.K. and Homkar Uday (2007): Cultivation of medicinal plants to develop a model under old teak and bamboo plantation at SFRI premises, Jabalpur *Vaniki Sandesh* Vol. 31 (1):17-24.
- Shrivastava, J.L., Masih S.K. and Homkar Uday (2005): Identification of best germplasm of MAPs from cultivated and natural forest areas; *Vaniki Sandesh* Vol. 31 (3):1-8.
- Praveen Ojha and Homkar Uday (2007):Management of biodegradable urban solid waste through vermicomposting into valuable organic manures. *Vaniki Sandesh* Vol. 31 (3):9-12.
- Shrivastava, J.L., Masih S.K. and Homkar Uday (2008): Impact of training and extension activity of cultivation, processing and marketing of medicinal and aromatic plants. *Vaniki Sandesh* Vol. 32 (1):15-24.
- Shrivastava, J.L., Masih S.K. and Homkar Uday (2008): Forest resources and their economic importance in Pench Tiger Reserve Seoni (M.P.) *Vaniki Sandesh* Vol. 32 (4):29-37.

Gautam Sheshmani, Shrivastava, J.L., Masih S.K. and Homkar Uday (2008): Ethnobotanical plants of shyamgiri P-3 area, Panna forest division; *Vaniki Sandesh* Vol. 32 (2):9-17.

शुक्ल पी. के.,के नायक, मेशराम, पी. बी., सोनी के. के. एवं होमकर उदय (2009): सागौन एवं आंवले की रोपणियों में होने वाले नुकसान एवं उनका निदान *वानिकी संदेश*, वर्ष 33 (2) : 12-15

डॉ. उदय होमकर, (2011): बेर पर लाख की खेती : अतिरिक्त आमदनी की संभावना का स्रोत *वानिकी संदेश* .

(G) Technical Bulletins published:

1. जे. एल. श्रीवास्तव, उदय होमकर एवं एस. के. मसीह: औषधीय पौधों की खेती
2. K.L. Verma and Uday Homkar: Nursery and Plantation techniques of tree species.
3. राम प्रकाश, आर. के. पाण्डेय, उदय होमकर एवं मंजू होमकर: संग्रहित लाख में समय के साथ वजन में होने वाली कमी का अध्ययन.
4. राम प्रकाश, आर. के. पाण्डेय, उदय होमकर (2012) साल बोरर से साल वनों की सुरक्षा : प्रशिक्षण पाठ्य सामग्री **Pp -10.**

(H) Technical Brochure published:

1. Leaflets of 10 important medicinal plant species.
2. आर. के. पाण्डेय एवं उदय होमकर (2013) महत्वपूर्ण प्रजाति मालकांगनी की रोपणी तकनीक पोस्टर
3. आर. के. पाण्डेय एवं उदय होमकर (2013) महत्वपूर्ण प्रजाति बायबिडिंग की रोपणी तकनीक पोस्टर

(I) Book /Chapter published in book:

1. Gautam Sheshmani, Shrivastava, J.L., Masih S.K. and Homkar Uday (2008): Plants diversity in Shyamgiri P-3 area in Panna Forest Division; *Role of Biotechnology in Medicinal and Aromatic Plants*. Ukaaz Publication, Hyderabad, Vol. XX:173-244.
2. Shrivastava, J.L., Masih S.K. Homkar Uday Sharma Rubi and Shrivastava A.(2005):Phytosociological structure of plants community in proposed biodiversity eco park : Bargi Hills Area, Jabalpur of Madhya Pradesh. *Role of Biotechnology in Medicinal and Aromatic Plants*. Ukaaz Publication, Hyderabad, Vol. XVIII:265-277.

(J) Seminar Workshop proceedings prepared/ published:

3- सी.पी.राय, आर. के. पाण्डेय एवं उदय होमकर (2011) कृषकों, व्यापारियों तथा उद्यमियों की क्रय-विक्रय अनुबंध हेतु बैठक। Pp -4

4- **Training course material prepared /published:**

- उदय होमकर (2005) लाख की खेती : प्रशिक्षण पुस्तिका.
- उदय होमकर (2012) साल बोरर से साल वनों की सुरक्षा: प्रशिक्षण पुस्तिका
- उदय होमकर (2012) साल छेदक कीट की पहचान एवं उनका नियंत्रण. प्रशिक्षण हेतु पोस्टर
- उदय होमकर (2012) कीट ग्रसित साल वृक्षों का लक्षणों के आधार पर श्रेणीकरण. प्रशिक्षण हेतु पोस्टर.

Special Achievements:

- Identification of a new fruit pest on Garari (*Cleistanthus collinus* (Roxb.) ex. Hook. F.) (First time in Madhya Pradesh.)
- Cultivation of Lac on different host plants.
- Mass translocation of spotted deer through oral sedation method. (First time in Madhya Pradesh and Chhattisgarh).
- Biological control of teak leaf defoliator and skeletonizer.
- Conservation of more than 400 medicinal plant species in Genebank.
- Development of nursery technique of RET species.
- Development of Cultivation technique of medicinal plants.
- People's biodiversity register (PBR), Sacred groove study