

BIO-DATA



1. Name : DR. AMRIT PAL SINGH KALEKA

2. Father's Name : S. BALBIR SINGH

3. Address : DEPARTMENT OF ZOOLOGY &
ENVIRONMENTAL SCIENCES
PUNJABI UNIVERSITY
PATIALA-147002, PUNJAB.

Phone No.: 0175-3046334

4. Residential Address : 297, MANDIR STREET,
ANAND NAGAR-A,
PATIALA-147001, PUNJAB.

Phone Nos.: 0175-2354945 & 9417024945

E-mail: apskaleka@gmail.com

5. Educational Qualifications:

(Starting from Graduation onwards)

Sr. No.	Degree	University	Year	Subjects	Division
1.	B.Sc. (Medical)	Punjabi Univ., Patiala	1988	Zoology, Botany and Chemistry	First
2.	M.Sc.	--do--	1990	Zoology with Spl. Entomology	First
3.	M.Phil	--do--	1992	Zoology with Spl. Entomology	'O' Grade
4.	Ph.D.	--do--	1998	Zoology, Faculty of Life Sciences	

6. Area of Specialization: Entomology, Taxonomy/ Systematics

7. Research awards/ Recognition received:

- Senior Research Fellowship Award from CSIR, New Delhi in January, 1994.
- Provisional Research Associateship from CSIR, New Delhi in April 1998.
- Research Associateship from CSIR, New Delhi in October 1999.
- Young Scientist Fast Track Project from DST, New Delhi in December, 2003.

- e) Senior Research Associateship from CSIR, New Delhi in 2008.
- f) Vice President of Zoological Society, Punjabi University, Patiala for year 1997-1998.
- g) President Balbir Memorial Educational Society, Patiala
- h) Fellow/Life Member/member of Eleven Societies/Associations of National level.
- i) Reviewer: Biotechnology Research & Geobios

8. R & D projects completed:

- i. Taxonomic status of Tiger moths (Arctiidae: Lepidoptera) from North India. **CSIR.**
- ii. Taxonomic status of Indian Lymantriidae (Lepidoptera) along with bio-ecological notes on certain species. **DST.**
- iii. Taxonomic status of Macro-lepidopterous moth fauna (Ditrysia: Lepidoptera) from Punjab & Haryana. **CSIR.**

9. List of Papers Taught at PG level:

S. No.	Paper	Class
1.	Insect, Man and Environment	M.Sc. I Zoology
2.	Zoogeography & Evolution	M.Sc. II Zoology
3.	Insect Pest Control & Toxicology	M.Sc. II Zoology
4.	Environmental Microbiology	M.Sc. I Env. Sciences
5.	Environmental Impact Assessment & Management	M.Sc. II Env. Sciences

10. Details of Professional Training and Research Experience, specifying period:

S. No.	Designation	Period
1.	M. Phil Student	Two Years: September, 1990 to September, 1992
2.	Project Assistant	Eight months: April, 1993 to December, 1993
3.	SRF (CSIR)	Four Years: January, 1994 to December, 1997
4.	Prov. RA (CSIR)	One Year: April, 1998 to April, 1999
5.	RA (CSIR)	Four Years: October, 1999 to October, 2003
6.	Research Scientist (DST)	Three Years: September, 2004 to September, 2007
7.	SRA (CSIR)	Three Years: May, 2009 to May, 2012

11. Publications:

- a. Research Paper:** National: 36 International: 9
- b. Conferences/ Symposia:** National: 30 International: 4
- c. Articles:** English: 3 Punjabi: 18

12. Workshops/Courses Attended:

1. Training Workshop on **Training of Science Communicators for enhancing Science coverage in Mass Media** organized by Punjab State Council for Science & Technology at held at Punjabi University, Patiala on 23rd February, **2000**.
2. 15th Orientation Course held at Academic Staff College, Punjabi University, Patiala from 11th February to 9th March, **2013**.

13. Students enrolled:

- a. Ph.d: Three

14. List of Publications:

i. Research Papers:

Published **Forty five research papers** in different Journals of National and International repute.

1. **1992**. Three new combinations under genus *Palpita* Hübner (Pyraustiinae: Pyralidae: Lepidoptera). **Geobios New Reports, 11 (2):** 113-117.
2. **1993**. Further studies on the Indian species of genus *Glyphodes* Guenee (Pyraustiinae: Pyralidae: Lepidoptera). **National meeting of Y. Scientists & R. fellows on impact of Sciences on Human Welfare.** 1993: 195-200.
3. **1994**. Taxonomical studies on three species of Arctiinae (Arctiidae: Lepidoptera) from India. **Geobios New Reports, 13 (1):** 19-24.
4. **1994**. Genitalic studies on four Indian species of genus *Spilarctia* Butler (Arctiidae: Lepidoptera). **Uttar Pradesh J. Zoology, 14 (1):** 87-88.
5. **1995**. Taxonomical studies on two Indian species of genus *Pericallia* Hübner (Arctiidae: Lepidoptera). **Hexapoda, 7 (1):** 45-49.
6. **1996**. Genitalic studies of genus *Cyana* Walker (Arctiidae: Lepidoptera). **Advance in Biosciences, 15 (1):** 33-40.
7. **1996**. Role of genitalia in the taxonomy of family Arctiidae. **Advance in Biosciences, 15 (2):** 237-245.
8. **1996**. Revalidation of genus *Satanastra* Meyrick along with the revised diagnosis of Genus *Pycnarmon* Lederer (Pyraustinae: Pyralidae: Lepidoptera). **Hexapoda, 8 (2):** 89-99.
9. **1996**. Taxonomic studies on Indian Species of Genus *Eurrhyparades* Snellen (Pyraustinae: Pyralidae: Lepidoptera). **Bulletin of Association of Zoologists, 7 (1):** 30-34.
10. **1997**. Revalidation and recharacterization of genus *Arctata* Roepke (Arctiinae: Arctiidae: Lepidoptera.) **Hexapoda, 9 (1):** 1-7

11. **1998.** Arctiin diversity from a single locality of village Jatinga (North Cachar Hills: Assam). **Himalayan Journal of Environmental Sciences & Zoology**, **12 (2)**: 143-148.
12. **1998.** Revalidation and recharacterization of genus *Trypheromera* Butler (Arctiinae: Arctiidae: Lepidoptera). **Journal of Entomological Research**, **22 (4)**: 303- 305.
13. **1998.** Taxonomic studies of Indian species of genus *Callimorpha* Latrielle (Arctiinae: Arctiidae: Lepidoptera). **Bioved**, **9 (1, 2)**: 93-98.
14. **1999.** Studies on the male genitalia of two species of genus *Amerila* Walker (Arctiinae: Arctiidae: Lepidoptera). **Geobios New Reports**, **18 (1)**: 5-8.
15. **1999.** Two new species of genus *Cladarctia* Koda (Arctiinae: Arctiidae: Lepidoptera) from India. **Zoo's print journal**, **14 (8)**: 77-81.
16. **1999.** Reporting of a new species under genus *Cretonotos* Hübner (Arctiinae: Arctiidae: Lepidoptera) from India. **Entomon**, **24(2)**: 135-142.
17. **2000.** Taxonomic studies on two Indian Species of Genus *Chrysorabdia* Butler (Lithosiinae: Arctiidae: Lepidoptera). **Zoo's Print Journal**, **15(10)**: 331-334.
18. **2000.** First report of *Thanatarctia infernails* Butler from India. **Insect & Environment**. **6 (2)**: 61.
19. **2000.** Further studies on three Indian species of genus *Aloa* Walker (Arctiinae: Arctiidae: Lepidoptera). **Advances in Biosciences**, **19 (1)**: 47-54.
20. **2000.** Three new species of genus *Thanatarctia* Butler (Arctiinae: Arctiidae: Lepidoptera) from India. **Polish Journal of Entomology**, **69**: 319-327.
21. **2000.** Genitalic studies on two Indian species of genus *Agrisius* Walker (Lithosiinae: Arctiidae: Lepidoptera). **Hexapoda**, **11(1&2)**: 85-89.
22. **2001.** A new genus *Mangina* along with taxonomy of *Argina* Hübner (Arctiinae: Arctiidae: Lepidoptera). **Journal Bombay Natural History Society**, **98(2)**: 250-253.
23. **2001.** A new species of moth under genus *Lemyra* (Arctiinae: Arctiidae: Lepidoptera) from India. **Journal Bombay Natural History Society**, **98(3)**: 422-424.
24. **2001.** Froth from cervical glands in *Amerila astreus* Drury (Arctiidae: Lepidoptera). **Insect & Environment**, **7(3)**: 107.
25. **2001.** Tiger moth diversity (Arctiidae: Lepidoptera) from Shivaliks in Punjab. **Insect & Environment**, **7(3)**: 122.
26. **2002.** A new genus and two new species of Arctiinae, Arctiidae: Lepidoptera, from India. **Journal Bombay Natural History Society**, **99(1)**: 79-85.
27. **2002.** Distributional record and genitalic studies of *Cyana detrita* Walker (Lithosiinae: Arctiidae: Lepidoptera) from N. W. India. **Geobios**, **29(2-3)**: 175-176.

28. **2002.** Inventory along with distribution of a lithosiin genus *Miltochrista* Hübner (Lithosiinae: Arctiidae: Lepidoptera) from Northwest and Northeast India. **Zoo's Print Journal**, **17(8)**: 853-856.
29. **2002.** Revalidation of genus *Chionaema* Herrich Schaffer (Lithosiinae: Arctiidae: Lepidoptera) along with genitalic studies on six species from North and Northeast. **Zoo's Print Journal**, **17(10)**: 891-898.
30. **2002.** Further studies on two Indian species of genus *Sidyma* Walker (Lithosiinae: Arctiidae: Lepidoptera). **Entomon**, **27(3)**: 327-331.
31. **2003.** Genitalic studies on four Indian species of genus *Chionaema* Herr. Schaffer (Lithosiinae: Arctiidae: Lepidoptera) along with their distribution. **Geobios**, **30(1)**: 29-32.
32. **2003.** Revival of genus *Barsine* Walker (Lithosiinae: Arctiidae: Lepidoptera) along with description of two new species from India. **Journal Entomological Research**, **27(2)**: 93-103.
33. **2003.** Report of a new species of the genus *Chionaema* Herr-Schaffer (Lithosiinae: Arctiidae: Lepidoptera) from India. **Entomon**, **28(4)**: 379-383.
34. **2004.** Male genitalic studies of *Castabala roseata* Walker (Lithosiinae: Arctiidae: Lepidoptera) from India. **Geobios**, **31(2-3)**: 189-190.
35. **2005.** A new combination under genus *Thanatarctia* for a moth species (Lepidoptera: Arctiidae). **Bionotes**, **7(3)**: 93-94.
36. **2005.** Three new species of genus *Cladarctia* Koda (Arctiinae: Arctiidae: Lepidoptera) from India. **Journal Bombay Natural History Society**, **102(1)**: 69-74.
37. **2005.** The *multiguttata* complex of the genus *Spilarctia* Butler (Arctiinae: Arctiidae: Lepidoptera) from India. **Entomon**, **30(3)**: 207-220.
38. **2006.** *Nyctemera varians*, a morpho-variant species from N. E. India (Lepidoptera: Arctiidae) from India. **Bionotes**, **8(1)**: 17-18.
39. **2006.** Arctiid diversity (Arctiidae: Lepidoptera) in Sikkim, India. **Flora and Fauna**, **12(1)**: 3-8.
40. **2007.** Taxonomic studies on genus *Spilarctia* Butler (Arctiinae: Arctiidae: Lepidoptera) from India. **Zoo's Print Journal**, **22(9)**: 2824-2828.
41. **2010.** Lymantriid Moths diversity in Punjab (Lepidoptera: Lymantriidae). **Bionotes**, **12(3)**: 81-83.
42. **2011.** Male genitalia of the moth *Thanatarctia flavens* (Arctiidae: Lepidoptera) from India. **Bionotes**, **13(3)**: 126.

43. **2011.** Studies on external genitalia of Indian species of genus *Acherontia* Laspeyres (Sphinginae: Sphingidae: Lepidoptera). **Annals of Entomology**, **29(1)**: 3-8.
44. **2012.** Studies on the external genitalia of four species of genus *Psilogramma* Rothschild and Jordan (Sphingidae: Lepidoptera) from India. **Journal Entomological Research**, **36(1)**: 95-100.
45. **2012.** Diversity of Tussock Moths (Lepidoptera: Noctuoidea: Lymantriidae) of the Western Himalayas. **Colemania**, **31**: 3-13.

ii. Abstracts:

Published **Twenty two Abstracts** in the Proceedings of different Symposia/ Conferences.

1. **1995.** Systematics of North and North-eastern Arctiidae (Lepidoptera). Proceedings of X Annual Congress on Man and Environment, (March 8-10,1995). Goa, Ab. No. 73: 54.
2. **1995.** Role of genitalia in the taxonomy of family Arctiidae (Lepidoptera). Proceedings of the National symposium on Recent Advances in Bio-Sciences (November 3-5, 1995). Rohtak, Ab. No. 236: 94.
3. **1996.** Arctiid diversity in North-East India. Proceedings of 83rd Session of the Indian Science Congress Association (January 3-8, 1996). Patiala, Part IV Ab. No. 2: 97.
4. **1997.** Revival of Genus *Satanastra* Meyrick along with four new combinations (Pyraustinae: Pyralidae: Lepidoptera). Proceedings of 84th Session of the Indian Science Congress Association (January 3-7, 1997). Delhi, Ab. No. 138: 95.
5. **1997.** Species Diversity of Arctiid Moths (Arctiidae: Lepidoptera) in North East and North West India. Proceeding of the International Symposium on Sustainable utilization of Biodiversity (March 8-10, 1997). Dehradun, p: 25-26.
6. **1997.** Diversity of footman moths from a single locality of village Jatinga (North Cachar Hills: Assam). Proceedings of the National Seminar on Insects & Environment, (September 18-20, 1997). Chandigarh, Ab. No. 73: 47.
7. **1998.** Arctiin diversity from a single locality of village Jatinga (North-Cachar Hills: Assam). Proceedings of the National symposium on Faunistic Biodiversity, Environment Monitoring and Biotechnology (February 6-9, 1998), Haridwar. Abstract No. 20: 13.
8. **1998.** Species diversity of family Arctiidae (Lepidoptera) from Jammu and Kashmir. Proceedings of the National Seminar on Biodiversity status, Management and monitoring (March 20-22, 1998), Jammu. Ab. No. 34.
9. **1998.** Diversity in Tiger Moths from Punjab & surrounding areas. Proceedings of the Second Punjab Science Congress. (April 2-4, 1998), Amritsar. Ab. No. C8: 59.

10. **1998.** Diversity in Arctiid Moths from Mussourie and adjoining areas. Proceedings of the Mountain Meet' 98. International Symposium on Environmental Management in mountainous region. (October 4-7, 1998), Rishikesh.
11. **1998.** Arctiid diversity (Arctiidae: Lepidoptera) from North East and North West India. Proceedings of the International Conference on Environment and Agriculture. (November 1-3, 1998), Kathmandu- Nepal.
12. **1999.** Integrated Pest Management. 16th Punjabi Vikas Conference (January 13-15, 1999), Punjabi University, Patiala.
13. **2002.** Reporting of two Arctiid rich spots in Western Himalayas. Proceedings of the UGC Working Conference on Entomological Research- Progress & Problems. (March 19-21, 2002), Chandigarh. Ab. No. 8: 5.
14. **2003.** Arctiid diversity (Arctiidae: Lepidoptera) from Himachal Pradesh. Proceedings of the National Symposium on Recent Trends on Zoological Sciences. (March 12-13, 2003), Patiala. Ab. No. 9: 7.
15. **2005.** Present Taxonomic status of Tiger moths (Arctiinae: Arctiidae: Lepidoptera) in North East India. Proceedings of the 92nd Session of Indian Science Congress. (January 3-7, 2005), Ahmadabad. Ab. No. 44: 30-31.
16. **2005.** Present Taxonomic status of Tiger moths (Arctiinae: Arctiidae: Lepidoptera) from North West India. Proceedings of the 8th Punjab Science Congress. (February 7-9, 2005), Patiala. Ab. No. A-116: 75.
17. **2006.** Taxonomic status of Family Lymantriidae (Lepidoptera) from North West India- A Preliminary Study. Proceedings of the National Congress of Entomology. (March 15-17, 2006), Patiala. Ab. No. 20: 20.
18. **2010.** Indian Lymantriidae (Lepidoptera): Some aspects on present status. Proceedings of the National Conference on Environment degradation and its impact on mankind. (November 19-20, 2010), Patiala. Ab. No. O-17: 33.
19. **2011.** Ditrysiian moth fauna (Lepidoptera): A preliminary report. Proceedings of the 14th Punjab Science Congress. (February 7-9, 2011), SLIET, Longowal, Sangrur. Ab. No. APP-02: 57-58.
20. **2011.** Role of insects as environmental indicators. Proceedings of the 3rd conference on recent advances in chemical and environmental sciences. (February 28- March 1, 2011), M. M. Modi college, Patiala. Ab. No. 132.
21. **2012.** Tussock moth (Lymantriidae: Ditrysiia: Lepidoptera) from North West India. Proceedings of the International Conference on Entomology. (February 17-19, 2012), Patiala. Ab. No. TS-60: 205.

22. **2012.** Diversity in Macro-moth fauna (Ditrysia: Lepidoptera) from Punjab. Proceedings of the National Conference on Man and Environment. (October 15-16, 2012), Patiala. :149.

iii. Articles:

Published **Twenty one** in Leading Newspapers/ Magazines and books:

1. **1998.** *Your home and Pollution.* The Tribune. November 19: 12.
2. **2000.** *Excessive use of Chemical Fertilizers- Harmful* (in Punjabi). Punjabi Tribune. February 9: 5.
3. **2000.** *Pesticides: Boon or Bane.* (in Punjabi). Punjabi Tribune. April 19: 5.
4. **2000.** *Parthenium and its fatal effects.* (in Punjabi). Punjabi Tribune. October 4: 12.
5. **2000.** *Why Disrespect towards traditional Trees.* (in Punjabi). Desh Sewak. October 5: 4.
6. **2000.** *Deer Park Bir Talab: Shelter for Blue bucks.* (in Punjabi). Punjabi Tribune. October 13: 5.
7. **2001.** *Supporting melas for Agricultural awareness.* (in Punjabi). Punjabi Tribune. January 10:
8. **2001.** *Need to care Deer Park Bir Moti Bagh.* (in Punjabi). Punjabi Tribune. February 2: 5.
9. **2001.** *Amaltas: Providing soothing effect to eyes in hot noons of May & June.* (in Punjabi). Punjabi Tribune. July 3: 5.
10. **2001.** *Bhima Kali Mandir: A best example of antique hilly art culture.* (in Punjabi). Punjabi Tribune. August 24: 5.
11. **2001.** *World Trade Organization- What's this concept?* (in Punjabi). Punjabi Tribune. Magazine. August 31: 6.
12. **2002.** *No where had gone our dear Vultures?* (in Punjabi). Punjabi Tribune. September 15: 5.
13. **2003.** *Agriculture.* (in Punjabi). Petals1: 29-30.
14. **2003.** *Chemosterility: A chemico-biological approach for Insect control.* Everyman's Science 37(4): 220-223.
15. **2006.** *Integrated control of Harmful Insects.* (in Punjabi). Vigyan De Naksh **43**: 108-112.
16. **2010.** *Development of educated society: Need of the hour.* (in Punjabi). Jag Bani. January 1: 2.
17. **2011.** *In which direction our Punjab is going?* (in Punjabi). Jag Bani. January 1: 2.

18. **2011.** *Modern man and environment.* (in Punjabi), in 'Danger of environmental pollution for man's existence': 28-30.
19. **2011.** *Excessive use of chemical fertilizers.* (in Punjabi), in 'Danger of environmental pollution for man's existence': 129-130.
20. **2012.** *Alternatives to Conventional Energy Resources, Living on the Edge,* 2(1): 45-49.
21. **2012.** *Biodiversity of India.* (in Punjabi), in 'Biodiversity & Environment: 40-60.

15. Symposia/ Conferences attended:

Attended **Thirty four** Symposia/Conferences of State, National & International repute:

1. **Xth Annual Congress on "Man & Environment"** held at National Institute of Oceanography, Goa from 8th –10th March, **1995.**
2. **National Symposium on "Recent Advances in Biosciences"** held at Maharishi Dayanand University, Rohtak from 3rd –5th November, **1995.**
3. **83rd Session of Indian Science Congress Association** held at Punjabi University, Patiala from 3rd –8th January, **1996.**
4. **84th Session of Indian Science Congress Association** held at Delhi University, New Delhi from 3rd –8th January, **1997.**
5. **International Symposium on "Sustainable utilization of Biodiversity"** held at Indira Gandhi National Forest Academy, Dehradun from 8th –10th March, **1997.**
6. **First Punjab Science Congress** held at Punjabi University, Patiala from 28th –30th April, **1997.**
7. **National Seminar on "Insects and Environment"** held at Panjab University, Chandigarh from 18th –20th September, **1997.**
8. **14th National Symposium on "Recent Trends in Life Sciences"** held at Punjabi University, Patiala from 23rd –25th October, **1997.**
9. **National Seminar on Recent Advances in Human Biology** held at Punjabi University, Patiala from 3rd –5th February, **1998.**
10. **National Symposium on "Faunistic Biodiversity, Environment Monitoring & Biotechnolgy"** held at Gurukula Kangri Vishavidyala, Haridwar from 6th –8th February, **1998.**
11. **International Symposium on "Environmental Management in Mountainous Regions"** held at Govt. Post Graduate College, Rishikesh from 4th –7th March, **1998.**
12. **National Seminar on "Biodiversity Status, Management and Monitoring"** held at Jammu University, Jammu from 20th -22nd March, **1998.**

13. Second **Punjab Science Congress** held at GNDU, Amritsar from 2nd –4th April, **1998**.
14. Sixteenth **Punjabi Vikas Conference** held at Punjabi University, Patiala from 13th –15th January, **1999**.
15. Third **Punjab Science Congress** and Symposium on “**100 Years of Post-Mendelian Genetics: Advent of Biotechnology**” held at Panjab University, Chandigarh from 10th – 12th December, **1999**.
16. Fifth **International Symposium on Vector and Vector Borne Diseases** held at Punjabi University, Patiala from 16th –18th February, **2000**.
17. **Seminar on State Biodiversity Strategy and Action Plan** held at Punjabi University, Patiala on 23rd November, **2000**.
18. **National Symposium on "Plant Biodiversity and its conservation"** held at Punjabi University, Patiala from 14th –15th February, **2001**.
19. **National Symposium on "Recent Trends in Zoological Sciences"** held at Punjabi University, Patiala from 12th –13th March, **2003**.
20. 91st Session of **Indian Science Congress Association** held at Panjab University, Chandigarh from 3rd –7th January, **2004**.
21. 8th **Punjab Science Congress** held at Punjabi University, Patiala from 7th –9th February, **2005**.
22. Seventh **International Symposium on Vector and Vector Borne Diseases** held at Punjabi University, Patiala from 18th–20th February, **2005**.
23. **National Congress of Entomology** held at Punjabi University, Patiala from 15th –17th March, **2006**.
24. Research Interface Workshop on **Insect Diversity** with emphasis on Micro-Lepidoptera held at Punjabi University, Patiala from 24th–25th March, **2007**.
25. **Seminar on “PAWAN GURU PANI PITA”** organized under aegis of Guru Nanak Foundation, New Delhi held at GNF, Patiala on 19th January, **2010**.
26. **National Conference on Environment degradation and its impact on mankind** held at Punjabi University, Patiala from 19th–20th November, **2010**.
27. 14th **Punjab Science Congress** on Role of Scientific Innovations & Knowledge in Economic Development, SLIET, Longowal from 7th -9th February, **2011**.
28. 1st **Science Congress**, Punjabi University, Patiala on 28th February, **2011**.
29. **International Conference on Entomology** held at Punjabi University, Patiala from 17th –19th February, **2012**.
30. 2nd **Science Congress**, Punjabi University, Patiala on 28th February, **2012**

31. **National Conference on Man and Environment** held at Punjabi University, Patiala from 15th –16th October, **2012**.
32. **National Seminar** organized by Indian Science Congress Association held at Punjabi University, Patiala on 24th January, **2013**.
33. **National Conference** on Preservation of environment: Challenges before humanity held at Sri Guru Granth Sahib World University, Fatehgarh Sahib on 14th March, **2013**.
34. Punjabi University 3rd **Science Congress** held at Punjabi University, Patiala on 19th March, **2013**.

16. Technical Proficiency: The undersigned is a trained taxonomist on insects of order Lepidoptera and can identify majority of Indian species referable to ditrysian moth fauna, having more than eighteen years of research/teaching experience in the field of taxonomy and systematics. I have worked in all the three National Museums i.e. Zoological Survey of India, Kolkata; Indian Agricultural Research Institute, New Delhi and Forest Research Institute, Dehradun. I am recipient of different awards/ fellowships from CSIR and DST, New Delhi.

Date: 15th April, 2013

(**Amrit Pal Singh Kaleka**)