

Faculty Details proforma for DU Web-site

(PLEASE FILL THIS IN AND Email it towebsiteDU@du.ac.in and

	lirector@ducc.du.ac.in mdar-	Photograph
_	Name Leignton	
Designation	Professor	
Address	Room#18, Department of Botany,	
	Chhattra Marg, Delhi University, Delhi-110007	
Phone No Office		
	011-28532023	
Residence Mobile	011-28532025	
Email	smazumdar@botany.du.ac.in	
Web-Page	www.smlbotanydu.com	
Educational Qualit		
Degree	Institution	Year
Ph.D.	Delhi University; Research at ICGEB, New	1996
11.0.	Delhi & IRRI, Philippines	1390
PG	University of Delhi, South Campus	1991
UG	Miranda House, Delhi University	1989
Career Profile		1,0,
2. Research Asso NY14456, USA, v	ts to ingestion of plant anti-feedants. ciate from 2000-2003 at Department of Plant Patho vorked on USDA funded epidemiological surveys fo ptibility of transgenic PRSV coat proteins, and gra	or plant viruses in NY state;
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2. Research Asso NY14456, USA, w proteolytic suscep 3. Reader, Associ University, Delhi Administrative Ass • So • W W • Fi sc ca • M • G D • M Areas of Interest / Plant-Biotic Inter Subjects Taught BOT101: Plant C	ciate from 2000-2003 at Department of Plant Patho worked on USDA funded epidemiological surveys for ptibility of transgenic PRSV coat proteins, and grap fate Professor & Professor, 2003-till date, Departme -7, India, working as Teacher and Researcher signments eccretary, Garden Committee, University of Delhi Varden (2003-2005) at Meghdut Hostel, University of omen scholars). aculty accompanying 5 under-graduate students to chool 2010 on "Global Food Security" at University ampus, China (sponsored by CSEC, University of E lember of the Delhi University Garden Committee overning Body, Bhaskaracharyaa College of Appli elhi, 2017. Iember of the Delhi University Library Committee 'Specialization	or plant viruses in NY state; pe biotechnology. ent of Botany, Delhi of Delhi (residence for 100 <i>Universitas</i> 21 summer of Nottingham, Ningbo Delhi). (2003-2011, 2017). ed Sciences, University of (2005-8).

methods in cell biology; M. Phil. course Paper 8A: Population Biology; Selected topics in Ph. D. coursework (GR1,GR3, GR4, GR6) Time table of the subjects usually taught during the current semester Subject Time S. Davs Classroom No. 1. **BOT101:** Cell and (i) Tuesday (Theory & Theory: 9.40-**Theory: Molecular Biology Practicals**) 10.35am, Room#37, (ii) Friday (Theory & **Practicals: Practicals:** 10.35am- 2.15pm **Practicals**) Lab#45 **BOT204:** Pathogens & (i) Monday (Theory & **Theory: 9.40-**2. Theory: **Pests of Crop Plants** Practicals) 10.35am, Room#37, (ii) Thursday (Theory **Practicals: Practicals:** & Practicals) 10.35am- 2.15pm Lab#43 3. **BOT403: Molecular** (i) Friday (Theory and Theory: 8.40 -**Theory:** 10.35am, Room#208, interactions of plants **Practicals**) **Practicals: Practicals:** with pathogens and pests 10.35am-2.15am Lab#26 **BOT407:** Theory: 8.40 -(i)Tuesday (Theory **Theory:** 4. **Contemporary concepts** and Practicals 10.35am. Room#207, **Practicals:** and methods in Cell **Practicals: Biology** 10.35am-2.15am Lab#45 5 Ph. D. & M. Phil. **GR1: Monday** Time: 2-4pm Theory: Coursework: Paper 8A / **GR3:** Wednesday Committee **B:** Population Biology **GR4:** Thursday Room **GR1:** Effective **GR6:** Saturday **Practical: As** communication, writing per location of & biostatistics the equipment **GR3:** Methods in field biology **GR4:**Methods for molecular techniques and tissue culture **GR6:**Methods for microbiology and plant parasite interactions 6. BOT409: M. Sc. Friday (Tutorials) & Time: 2.15pm-**Office:** Dissertation Saturday (Meetings) **Room#18** 5pm Laboratory: Lab#15

Research Guidance

- 1. Supervision of awarded Doctoral Thesis: 9
- 2. Supervision of Doctoral Thesis, under progress: 5 +1 (submitted)
- 3. Supervision of awarded M. Phil dissertations: 3
- 4. Supervision of completed M. Sc. dissertations: 24
- 5. Supervision of summer students/interns: 32

Publications Profile

1. **1.** Sudeshna Mazumdar-Leighton, Cheerukeri Raghavendra Babu and John Bennett (2000) "Identification of novel serine proteinase gene transcripts in the midguts of two tropical insect pests, *Scirpophaga incertulas* (Wk.) and *Helicoverpa armigera* (Hb.)" Insect Biochemistry and Molecular Biology 30 (1): 57-68.

2. Sudeshna Mazumdar-Leighton and Roxanne M. Broadway (2001) "Identification of six chymotrypsin cDNAs from larval midguts of *Helicoverpa zea* (corn earworm) and *Agrotis ipsilon* (black cutworm) feeding on the soybean trypsin inhibitor" Insect Biochemistry and Molecular Biology 31 (6/7): 633-644.

3. Sudeshna Mazumdar-Leighton and Roxanne M. Broadway (2001) "Transcriptional induction of diverse midgut trypsins from larval *Helicoverpa zea* (corn earworm) and *Agrotis ipsilon* (black cutworm) feeding on the soybean trypsin inhibitor)" Insect Biochemistry and Molecular Biology 31 (6/7): 645-657.

4. D. Shah, B. Nault, H. Dillard, S. Mazumdar-Leighton and D. Gonsalves, 2003, "Incidence and spatial patterns of viruses in New York snap beans in 2002" Phyto-pathology, 93: S78.

5. Nault, B.A., D. Shah, H. Dillard, S. Mazumdar-Leighton, D. Gonsalves and A. McFaul (2003) "Aphid dispersal and virus incidence in snap bean fields". In *Proceedings* of the Mid Atlantic Fruit and Vegetable Convention. Hershey, PA. Pennsylvania Vegetable Growers Association. pp. 39-41.

6. Nault, B.A., D. Shah, H. Dillard, S. Mazumdar-Leighton, D. Gonsalves and A. McFaul (2003) "Seasonal patterns of aphid movement and virus incidence in snap bean fields". In *Proceedings* of the New York State Vegetable Conference. Cornell Cooperative Extension and New York State Vegetable Growers Association. pp. 84-87.

7. DA Shah, HR Dillard, S Mazumdar-Leighton, D Gonsalves and B Nault, (2006), "Incidence, Spatial patterns, and Associations among Viruses in Snap Bean and Alfalfa in New York", Plant Disease, 90:203-210.

8. A Bhattacharyya, S. Mazumdar, S Mazumdar-Leighton and CR Babu, (2006), "A Kunitz proteinase inhibitor from *Archidendron ellipticum* seeds: Purification, characterization, and kinetic properties", Phytochemistry 67:232-241.

9. A Bhattacharyya, S Mazumdar Leighton and CR Babu, (2007), "Bioinsecticidal activity of *Archidendron ellipticum* trypsins inhibitor on growth and serine digestive enzymes during larval development of *Spodoptera litura*", Comp. Biochem. Physiol. C. Toxicol. Pharmacol., 145(4):669-677.

10. A Bharadwaj, S Leelavathi, S Mazumdar-Leighton, A Ghosh, S Ramakumar and V ShivaReddy, (2008), "The critical role of partially exposed N-terminal Valine residue in stabilizing GH10 Xylanase from *Bacillus* sp. NG-27 under poly-extreme conditions", PLoS One, 3(8):e3063.

11. A Bharadwaj, S Leelavathi, S Mazumdar-Leighton, A Ghosh, S Ramakumar and V ShivaReddy, (2010), "The critical role of N- and C-terminal contact in protein stability and folding of a family 10 Xylanase under poly-extreme conditions", PLoS One, 5(6):e11347.

12. B Oppert, EN Elpidina, M Toutges and S Mazumdar-Leighton, (2010), 'Microarray analysis reveals strategies of *Tribolium castaneum* larvae to compensate for cysteine and serine protease inhibitors' Comp Biochem Physiol Part D Genomics Proteomics, 5(4):280-7.

13. M Saikia, YT Singh, A Bhattacharya and S Mazumdar-Leighton, (2011), 'Expression of diverse midgut serine proteinases in the sericigenous Lepidoptera *Antheraea assamensis* (Helfer) is influenced by choice of host plant species' Insect Molecular Biology, 20(1):1-13. Online September 2010.

14. P Singh-Pant, P Pant, SK Mukherjee and S Mazumdar-Leighton, (2012), 'Spatial and temporal diversity of begomovirus complexes in papayas with leaf curl disease' Archives of Virology 157:1217-1232.

15. YT Singh, S Mazumdar-Leighton, M Saikia, P Pant, S Kashung, K Neog, R Chakravorty, S

Nair, J Nagaraju, CR Babu, (2012), "Genetic variation within natural populations of endemic silkmoths, Antheraea *assamensis* (Helfer) from North-East India indicates need for in situ conservation" PLoS ONE 7(11): e49972 doi:10.1371/ journal.pone.0049972.

16. U Bhardwaj, A Bhardwaj, R Kumar, S Leelavathi, V SivaReddy and S Mazumdar-Leighton (2014) "Revisiting Rubisco as a protein substrate for insect gut proteases." Archives of Insect Biochemistry and Physiology, 85(1): 13-35. Online December 2013.

17. R Kumar, U Bhardwaj, P Kumar and S Mazumdar-Leighton (2015) "Midgut serine proteases and alternative host plant utilization in *Pieris brassicae* L." Frontiers in Physiology, 6:95 doi: 10.3389/fphys.2015.00095. Published online 31st March 2015.

18. S. Mazumdar-Leighton and VK Choudhary (2017) "Metagenomics at grass roots" Resonance (Elsevier) Journal of Science Education (Indian Academy of Sciences) 22(3):291-301.

Popular Articles:

- "Loktak: the largest floating lake of the world needs restoration" (2013) Current Science, 104: 10. <u>http://www.currentscience.ac.in/Volumes/104/01/0010.pdf</u>
- "Rabha's weave" (2008) <u>www.mugadbase.com</u>
- "Biotechnology: A new era for Plant Biotechnology and Plant Protection" (2000) www.apsnet.org/online/feature/Biotechnology.html
- 2. Other publications (Peer reviewed Book Chapters; Edited works, Book reviews, Festschrift volumes, etc.)
 - Book Chapter: Cindy-Leigh Hamilton, Sudeshna Mazumdar-Leighton, Icolyn Amarakoon, Marcia Roye (2016) "Tomato Yellow Leaf Curl" in "Virus Diseases of Tropical and Sub-Tropical Crops" eds. P Tennant and G Fermin, CABI International Press, Oxfordshire, UK, pp. 177-188.
 - Book Chapter: Gustavo Fermin, Sudeshna Mazumdar-Leighton, Paula Tennant (2018) "Viruses of Prokaryotes, Protozoa, Fungi, and Chromista" in "Viruses: Molecular Biology, Host Interactions and Applications to Biotechnology" eds. P Tennant, G Fermin and J Foster, Elsevier, Academic Press, (ISBN 9780128112571), pp. 217-244.
 - Book Chapter: Gustavo Fermin, Paula Tennant, Sudeshna Mazumdar-Leighton (2018) "Transgenic virus-resistant papaya: current status and future trends" in "Genes, genetics and Transgenics for Virus Resistance in Plants" eds. BL Patil, Caister Academic Press, (ISBN 9781910190814), pp. 141-158.

Publications in the Last one year

- Book Chapter: Gustavo Fermin, Sudeshna Mazumdar-Leighton, Paula Tennant (2018) "Viruses of Prokaryotes, Protozoa, Fungi, and Chromista" in "Viruses: Molecular Biology, Host Interactions and Applications to Biotechnology" eds. P Tennant, G Fermin and J Foster, Elsevier, Academic Press, (ISBN 9780128112571), pp. 217-244.
 - (ii) Book Chapter: Gustavo Fermin, Paula Tennant, Sudeshna Mazumdar-Leighton (2018) "Transgenic virus-resistant papaya: current status and future trends" in "Genes, genetics and Transgenics for Virus Resistance in Plants" eds. BL Patil, Caister Academic Press, (ISBN 9781910190814), pp. 141-158.

Conference Organization/ Presentations (in the last three years)

- Lead talk on "Understanding persistence and evolution of begomoviruses infecting feral papaya and solanceaous weeds by epidemiological screenings" and poster (PA68) at 8th International Geminivirus Symposium, November 7th, 2016, at New Delhi, India
- Poster (#426-4/1024) presented at Annual Meeting of the American Society of

Agronomy, Crop Science Society of America, and Soil Science Society of		
America with the Entomological Society of America, 2015, Minneapolis, USA		
• Public lecture at India International Centre, 2015 (available as webcast) entitled "The		
Very Hungry Caterpillar: Plant-Insect Interactions and the Giant Silkworms of NE		
India"		
• Public lecture on "Multiple Dimensions of the Biotic Environment of Plants" at DS		
Kothari Centre for Research and Innovation in Science Education, Miranda House,		
University of Delhi, at INSPIRE Internship program, 16th December 2013		
• Paper entitled "Understanding the biology of plant interactions with the biotic		
environment: applications to food security" at an event on "Global food security"		
organized by University of Nottingham, Ningbo, China, at Shanghai Expo 2010.		
• Public lecture entitled "On the wings of a golden silk moth" for the Delhi University		
Lecture Series 2010.		
• Paper and posters presentation at Annual Meeting of the ESA, 2007, San Diego, USA		
http://www.esa.confex.com/esa/2007/techprogram/paper_29147.htm		
http://www.esa.confex.com/esa/2007/techprogram/session_6097.htm		
Research Projects (Major Grants/Research Collaboration)		
• PI (University of Delhi, North campus component) in multi-institutional project on		
papaya leaf curl disease (DBT, project 2019-2022)		
• Two completed Extramural projects funded by Department of Biotechnology		
Government of India, on:		
(1) Genetic Diversity of A. assamensis silk moths from NE India (P.I. collaborating with		
CMERTI, CSB, Assam) Output: See <u>www.mugadbase.com</u>		
(2) Restoration Ecology program for Mined areas (Co-PI)		
(3) Intramural DU-DST Purse Grant on crucifer pest complexes (Individual PI). See		
http://www.youtube.com/watch?v=AAP2y-xcbM8		
Awards and Distinctions		
• The Distinguished Alumna Award 2017 from Miranda House Alumnae Association,		
Delhi University		
Association With Professional Bodies		
1. Editing		
Co-edited special March 22nd 2017 issue of Resonance (A Journal of Science Education		
from the Indian Academy of Sciences, Bangalore) celebrating "Women in Science"		
Reviewing		
• Reviewed manuscripts for Plant Molecular Biology (2017); Physiological Entomology		
(2017), VirusDiseases (2017); Frontiers in Physiology (2016), Euphytica (2015), Insect		
Science (2016), Molecular Biology Reports (2012, 2013, 2018), Physiology and Molecular		

- (2017), VirusDiseases (2017); Frontiers in Physiology (2016), Euphytica (2015), Insect Science (2016), Molecular Biology Reports (2012, 2013, 2018), Physiology and Molecular Biology of Plants (2018); Woodpecker Journal of Agricultural Research (2012, 2011), African Journal of Microbiology Research (2012), Oecologia (2010), Journal of Plant Physiology (2010), Insect Biochemistry & Molecular Biology (2001, 2002), Comparative Biochemistry and Physiology (2002), Plant Science (2003), Peptides (2009), Journal of Insect Physiology (2010), Insect Molecular Biology (2011); Archives of Insect Biochemistry and Physiology (2011, 2012); African Journal of Biotechnology (2012-13), Current Science (2003- 2011).
- 2. Advisory Committees and Boards
 - Member of Scientific Advisory committee of IBSD (Institute of Biodiversity and Sustainable development), Imphal, Manipur (2010-13)
 - Member of Project Advisory Committee, NBSFARA/NASF, ICAR (2013-16)

- Member, Scientific Advisory Committee, CUES, Ambedkar University of Delhi, 2015-2017.
- Editorial Board, Resonance, a Journal for Science and Education in India.

3. Life Memberships * Delhi University Botanical Society, Indian Virological Society

Other Activities

• Mentor to 34+ summer/project students from various colleges of Delhi University and other institutions (2004-2017).

Signature of Faculty Member

• You are also requested to also give your complete resume as a DOC or PDF file to be attached as a link on your faculty page.