

## BIODATA

**Name: Professor DR. ANIRUDDHA SAHA**

**Designation:** Professor, Dep. of Botany, University of North Bengal, Siliguri, dist. Darjeeling, West Bengal.

**Date of Birth :** 8<sup>th</sup> August 1962 **Caste:** General **Sex :** Male **Nationality :** Indian

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Area of Specialization: Molecular Plant Pathology

### Educational Qualification:

Examination Passed	School/ College	Board/ University	Year of Passing	Class Division	% Marks	scholarships/ medals
Madhyamik (Secondary) (10)	Gopalmath High School, Durgapur, Dt. Burdwan	W. B. Board of Secondary Education	1977	1 <sup>st</sup> Div.	66.1	-
Higher Secondary (10+2)	Tarai Tarapada Adarsha Bidyalaya, Siliguri.	W.B. Council of H.S. Education.	1980	2 <sup>nd</sup> Div.	56.4	-
B.Sc.(Hons.) (10+2+3) (Botany)	Darjeeling Government College.	University of North Bengal	1983	2 <sup>nd</sup> Class.	54.875	-
M.Sc.** in Botany with specialization in Mycology and Plant Pathology	Department of Botany, Univ of North Bengal	University of North Bengal	1985 <i>Session delayed passed 1986</i>	1 <sup>st</sup> Class First.	69.1	Received Gold Medal for 1 <sup>st</sup> class first in M.Sc. Final.
Ph.D. (Science)***	Department of Botany, Univ of North Bengal	University of North Bengal	1993	Degree Awarded	-	-
NET(UGC) For fellowship & lecturership eligibility	Department of Botany, Univ of North Bengal	University Grants Commission	1986	Qualified	-	-

\*\* Completed project work during post graduate study entitled “ Investigations on a new leaf disease of tea (*Camellia sinensis* (L.) O. Ktze.) \*\*\* Title of the thesis : Studies on The Resistance of tea ( *Camellia sinensis* (L.) O. Ktze.) to *Bipolaris carbonum* Nelson.

## Research Experience

Research positions/posts held.

Junior Research Fellow	UGC-adhoc fellowship for qualifying NET	Worked For 2 Years
Senior Research Fellow	UGC-adhoc fellowship for successfully carrying out research as JRF.	Worked for 3 Years
Research Associate	<i>In a project sponsored</i> by Department of Biotechnology under the principal supervision of Prof. B.N. Chakraborty	Worked for 2 years and 8 months.
As Lecturer, Sr.lecturer, Reader, Associate professor and Professor	Associated with several research projects as Principal Investigator/Co-Investigator/supervisor etc.	Last 26 years and published several papers/articles/book/ abstracts etc. (Details given elsewhere)

## Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S.No	Name of Award	Awarding Agency	Year
1	Received University scholarship for securing highest marks in Botany Part- I exam,	University of North Bengal	1985
2	Received University gold medal for standing first in first class	University of North Bengal	1986

## Advanced Training courses completed :

Course	Organised by	Place of Training	Duration
Use of tissue culture techniques in crop improvement with special reference to potato.	<b>Central Potato research Institute,</b> Shimla (Indian Council of Agricultural Research) & Department of Biotechnology, Min. of Sc. & Tech, Govt. of India.	Shimla ( INDIA)	19 Days (13 <sup>th</sup> September to 1 <sup>st</sup> October 1993)
Detection and management of wheat pathogens	Center of Advanced Studies in Plant Pathology, Division of Plant Pathology, <b>Indian Agricultural Research Institute. New Delhi</b>	NEW DELHI (INDIA)	15 Days (16 <sup>th</sup> to 30 <sup>th</sup> July 1998)

## List of projects conducted

	Project title	Start date	Completion date	Project cost	Sponsoring organization
1.	Toxin Studies in Grey Blight disease of Tea	1997	1998	0.1 lakh	UGC

2	Screening, Extraction and Application of Botanical Fungicides against major foliar fungal pathogens of tea ( <i>Camellia sinensis</i> )	2000	2003	5.5 lakh	CSIR (PI)
3	Demonstration and promotion of mushroom cultivation for the sustenance of schedule cast, schedule tribe and weaker section of North Bengal	2001	2004	8.5 lakh	DBT, Govt. of India (Co-Investigator)
4	Detection of mycorrhizal fungi associated with tea roots and their exploitations	2002	2007	10 lakh	UGC SAP Co-Investigator
5	Molecular documentation of eastern Himalayan Rhododendrons based on RADP markers.	2008	2010	2 lakh	DBT, Govt. West Bengal (Co-Investigator)
6	Screening, characterization and application of microbial antagonists for control of major diseases of tea	2007	2010	10 lakh	UGC (Co-Investigator)
7	Development of bioformulations for induction of systemic resistance in tea plants against fungal pathogens	2007	2012	10 lakh	UGC (Co-Investigator)
8	Molecular detection, diversity analysis and phylogeny of RNA viruses causing diseases of horticultural crops in north-east India for the development of easy diagnostic device	2012	2015	9 lakh	UGC (PI)
9	Management of potyvirus infecting bottle gourd in sub-Himalayan west Bengal. (Minor project)	2019	2020 (To be completed)	1.5 lakh	University of North Bengal PI

10	In FIST programme to Department of Botany	2010	2015	20 lakhs approximately	DST(FIST) Member of the implementation team
11	Studies on some foliar diseases of three economically important horticultural crops of sub-Himalayan West Bengal. (Minor project)	2022	2023 (To be completed)	1.5 lakh	University of North Bengal  PI

### Teaching experience:

Twenty-six years of Post Graduate teaching experience in molecular Plant pathology and in different allied subjects of Botany and Biotechnology in the University of North Bengal.

### Academic visits In Indian (during five-month study leave)

1. Department of botany Mysore University: Delivered an invited lecture on 25<sup>th</sup> July, 2019 on the topic “Plant viruses of North Bengal: An emerging area of research” organized as part of Botanical Society’s activities, at Department of botany, **University of Mysore**.  
and also visited the facilities of Plant Health Clinic and its functioning.
2. Department of Botany, **Bangalore University**, Bengaluru: Delivered an invited special lecture on 30<sup>th</sup> April, 2019
3. Department of Botany, **Gulbarga University**, Karnataka: Delivered an Invited Lecture on
4. Department of Plant Pathology and Plant Virology, **Indian Agricultural Research Institute, Pusa, New Delhi** to get hands on training on advanced techniques and equipments.
5. **ICAR-Central Citrus Research Institute, Nagpur**, to get hands on training on advanced techniques and equipments.
6. Visited **Trans-Disciplinary University, Yelahanka Bengaluru** to know the researches on Ayurvedic medicines.

### Foreign visits

1. Visited Beijing to attend 15<sup>th</sup> International plant protection congress at Beijing International convention centre, **Beijing, China**. May 11-16,2004
2. Visited Bangkok to attend and to chair a session at the International conference on integration of Science and Technology held at King Mongkut’s Institute of technology Ladkrabang (KMITL), **Bankok, Thailand**. April, 2007

3. Glasgow To attend and present paper at The XVI International Plant Protection Congress 2007, held at Scottish exhibition & conference centre, **Glasgow, Scotland, UK**.  
also Visited London to visit Kew Botanical Garden, at Kew, **London, UK** October, 2007
4. Visited **St. Louis, Missouri, USA** to attend 9<sup>th</sup> International society for Plant Molecular Biology congress October 25-30, 2009
5. Visited National research centre, **Cairo, EGYPT**, to attend and present paper at The 1st International conference of bioprocessing and application of microbial biotechnology in agriculture. Nov. 1-3, 2010
6. Visited Department of Botany, **Rajshahi University, Bangladesh**, To attend and present paper in the Annual botanical conference 2010, 11<sup>th</sup> December, 2010
7. **Visited Vancouver, Canada to attend 21<sup>st</sup> International conference of food and nutrition, July, 25-26, 2018.**
8. **Visited Quest Research and Analytics Inc., Edmantan, Canada on 29<sup>th</sup> July, 2018 to discuss our strength and opportunities in the field of biotechnology.**
9. **Attended International conference of plant pathology, ICPP, Boston, USA, during July 30<sup>th</sup> to 3<sup>rd</sup> Aug 2018.**

### **Study leave (from 1<sup>st</sup> March, 2019 to 31<sup>st</sup> July, 2019)**

During study leave of five months, visited several Institutes and Universities of National Importance to learn several advanced techniques.

### **Publications**

**Total: 83** [68 in Journals + 17 in book chapters or in proceeding volumes]

*(List of papers published in SCI Journals, in year wise descending order). Total number 65*

S. No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1.	Mangar P, Barman P, Kumar A, Saha A and Saha D	Detection of Virulence-Associated Genes and in vitro Gene Transfer From <i>Aeromonas</i> sp. Isolated From Aquatic Environments of Sub-himalayan West Bengal.	Frontiers in Veterinary Science	Accepted: 03 May 2022 in press doi: 10.3389/fvets.2022.887174		2022
2.	Subba R, Sharma B C and Saha A	Isolation and characterisation of phosphate solubilising bacteria from rhizospheric soil of orange trees of Darjeeling hills, India	<b>Plant archives</b> ISSN:0972-5210 ISSN : 2581-6063 (Online)	21(1)	915-920	2021
3.	Karmakar A, Sarkar T, Chakraborty P,	Genetic variability of <i>tomato leaf curl new delhi virus</i>	International Journal of	17(2)	535-544	2021

	Biswas K K, Saha A. and Saha D.	infecting cucumber in sub-Himalayan plains in Eastern India	Agricultural Technology			
4.	Sarkar T, Chakraborty P, Karmakar A, Saha A. and Saha D.	First report of <i>Periconia macrospinosa</i> causing leaf necrosis of pointed gourd in India	Journal of Plant Pathology <a href="https://doi.org/10.1007/s42161-019-00348-w">https://doi.org/10.1007/s42161-019-00348-w</a> (Springer Nature online)			2019
5.	Chakraborty P., Karmakar A., Sarkar T., <b>Saha A.</b> and Saha D.	First report of <i>Lagenaria</i> mild mosaic virus infecting bottle gourd in India.	Plant Disease (In Press)	DOI: 10.1094/PDIS-01-19-0195-PDN		2019
6.	Dhar Purkayastha G., Mangar P., <b>Saha A.</b> and Saha D.	Evaluation of the biocontrol efficacy of a <i>Serratia marcescens</i> strain indigenous to tea rhizosphere for the management of root rot disease in tea.	PLoS ONE	13(2)	e0191761	2018
7.	Sarkar T., Chakraborty P., Das S., <b>Saha A.</b> and Saha D.	First report of <i>Ascochyta medicaginicola</i> causing leaf blight disease of pointed gourd in India.	Plant Disease	102(12)	2657	2018
8.	Sarkar T., Chakraborty P., Das S., Saha D. and <b>Saha A.</b>	<i>Curvularia</i> leaf spot of pointed gourd in India.	Canadian Journal of Plant Pathology	40(4)	594-600	2018
9.	Sarkar, T., Karmakar, A., <b>Saha, A.</b> , Saha, A. and Saha, D.	In vitro bio-control of <i>Fusarium equiseti</i> infecting <i>Trichosanthes dioica</i> from sub-Himalayan, West Bengal.	Annals of Plant Protection Sciences	26	222-225	2018
10.	Chakraborty P., Das S., Saha B., Karmakar A., Saha D. and <b>Saha A.</b>	Rose rosette virus: an emerging pathogen of garden roses in India.	Australasian Plant Pathology	46(3)	223-226	2017
11.	Mandal H., Chakraborty P., Das S., Saha A., Sarkar T., Saha D. and <b>Saha A.</b>	Biocontrol of virulent <i>Ralstonia solanacearum</i> isolates by an indigenous <i>Bacillus cereus</i> .	International Journal of Agricultural Technology	13(1)	19-30	2017
12.	Das S., Chakraborty P., Mandal P., Saha D. and <b>Saha A.</b>	Phenylalanine ammonia-lyase gene induction with benzothiadiazole elevates defence against <i>Lasiodiplodia theobromae</i> in tea in India	Journal of Phytopathology	165(11-12)	755-761	2017
13.	Ramashish Kumar, <b>Aniruddha Saha</b> and Dipanwita Saha	Biotransformation of 16-oxa-3,13(14)E-dien-15-oic acid isolated from <i>Polyalthia longifolia</i> by <i>Rhizopus stolonifer</i> increases its antifungal activity.	Biocatalysis and Biotransformation.	34:5	212-218	2016
14.	Saha A., Das S., Chakraborty P., Saha B., Saha D. and <b>Saha A.</b>	Two new bottle gourd fruit rot causing pathogens from sub-Himalayan West Bengal.	International Journal of Agricultural Technology	12(2)	321-332	2016
15.	Chakraborty P., Das S., Saha D. and <b>Saha A.</b>	First report of Soybean mosaic virus infecting bottle gourd in India.	Plant Disease	100(7)	1509	2016

16.	Chakraborty P., Das S., Saha B., Sarkar P., Karmakar A., <b>Saha A.</b> , Saha D. and Saha A.	Phylogeny and synonymous codon usage pattern of Papaya ringspot virus coat protein gene in sub-Himalayan region of north-east India.	Canadian Journal of Microbiology	61	555-564	2015
17.	<b>Saha A.</b> , Saha B., Das S., Chakraborty P. Sarkar P. and Saha D.	Molecular detection and diversity analysis of some potyviruses associated with mosaic diseases of papaya, common bean and potato growing in sub-himalayan west Bengal.	Vegetos	27	338-346	2014
18.	<b>Saha A.</b> , Saha B., and Saha D.	Molecular detection and partial characterization of a begomovirus causing leaf curl disease of potato in sub-Himalayan West Bengal, India.	Journal of Environmental Biology	35	601-606	2014
19.	<b>Saha A.</b> , Das L., Saha B., and Saha D.	Effect of nutritional and physiological features on Rhizoctonia solani, a seed borne pathogen of tea.	Journal of plant disease sciences	9	48-54	2014
20.	Saha B., Saha D., Biswas K.K. and <b>Saha A.</b>	Distribution and molecular characterization of begomoviruses infecting tomato in sub-Himalayan tarai region of West Bengal and Brahmaputra valley of Assam in northeast India.	Indian Phytopathology	67	92-96	2014
21.	<b>Saha A.</b> , Saha B., Chakraborty P. and Saha D.	Identification of begomovirus-infected mosaic diseases from uncultivated crops of sub-Himalayan plains of East India.	Journal of agricultural Technology	9	1241-1252	2013
22.	Saha B., Saha D. and <b>Saha A.</b>	Begomovirus causing leaf curl disease in tomato ( <i>Lycopersicon esculentum</i> ) in sub-Himalayan West Bengal, India.	NBU Journal of Plant Science	7	35-41	2013
23.	<b>Saha A.</b> , Mandal H. and Saha D.	Isolation and identification of a virulent <i>Ralstonia solanacearum</i> by <i>fliC</i> gene amplification and induction of chitinase by 2-amino butyric acid for control of bacterial wilt in tomato plants.	NBU Journal of Plant Science	7	95-100	2013
24.	Mandal S., <b>Saha A.</b> and Saha D.	Effect of copper on seed germination, root elongation and shoot elongation of seedlings of commercially cultivated tea varieties. 43-49.	NBU Journal of Plant Science	7		2013
25.	Dey P. L., Chakraborty B. N. and <b>Saha A.</b>	Search for Agriculturally Important Microorganisms from Terai-Dooars Regions of North Bengal, Analysis of their Diversity and Application for Plant Growth Promotion and Disease Management.	Journal of Mycol and Plant Pathol.	43	51-62	2013
26.	Saha D., Mandal S. and <b>Saha A.</b>	Copper induced oxidative stress in tea ( <i>Camellia sinensis</i> ) leaves.	J. of environ. Biol.	33	861-866	2012

27.	Saha, D., Kumar, R., Ghosh, S., Kumari, M., <b>Saha, A.</b>	Control of foliar diseases of tea with <i>Xanthium strumarium</i> leaf extract.	Industrial Crops and Products.	37	376-382	2012
28.	Kumar, R., <b>Saha A.</b> and Saha D.	A new antifungal coumarin from <i>Clausena excavata</i> .	Fitoterapia	83	230-233	2012
29.	Saha D., Purkayastha, G.D., Ghosh A., Isha, M. and <b>Saha, A.</b>	Isolation and characterization of two new <i>Bacillus subtilis</i> strains from rhizosphere of eggplant as potential biocontrol agents.	Journal of Plant Pathology	94	109-118	2012
30.	Sharma, B. C., Subba, R. and <b>Saha A.</b>	In-vitro solubilization of tricalcium phosphate and production of IAA by phosphate solubilizing bacteria isolated from tea rhizosphere of Darjeeling Himalaya.	Plant Sciences Feed	6	96-99	2012
31.	Sharma, B. C., Subba, R. and <b>Saha A.</b>	<i>Kusthia</i> Sp, a novel member of phosphate solubilising bacteria from rhizospheric tea soil of Darjeeling Hills, India.	IOSR Journal of Pharmacy and Biological Sciences	2	36-39	2012
32.	Ghosh P., Chakraborty P., Mandal A., Rasul M.G., Chakraborty M. and <b>Saha A.</b>	Triterpenoids from <i>Schleihera oleosa</i> of Darjeeling foothills and their antimicrobial activity.	Indian journal of pharmaceutical sciences.	73	231-233	2011
33.	Chakraborty B.N., Chakraborty U., <b>Saha A.</b> and Dey P.L. and Sunar K.	Morphological and Molecular Characterization of <i>Trichoderma</i> isolates from North Bengal.	Journal of Mycology and Plant pathology,	41	207-214	2011
34.	<b>Saha A.</b> , Isha M., Dasgupta S. and Saha D.	Pathogenicity of <i>Colletotrichum gloeosporioides</i> Penz.) Sacc. Causal agent of anthracnose in different varieties of eggplant ( <i>Solanum melongena</i> L.) determined by levels of cross-reactive antigens shared by host and pathogen.	Archives of Phytopathology and Plant Protection.	43	1781-1795	2010
35.	<b>Saha A.</b> , Saha B., and Saha D.	Major plant viruses: an overview.	NBU Journal of Plant Science	4		2010
36.	De K. K., <b>Saha A.</b> , Tamang R. and Sharma B.	Investigation on relative genome sizes and ploidy levels of Darjeeling-Himalayan <i>Rhododendron</i> species using flow cytometer	.Indian Journal of Biotechnology	9	64-68	2010
37.	Chakraborty B.N., Chakraborty U., <b>Saha A.</b> and Dey P.L. and Sunar K.	Molecular Characterization of <i>Trichoderma viride</i> and <i>Trichoderma harzianum</i> isolated from Soils of North Bengal Based on rDNA Markers and Analysis of Their PCR-RAPD Profiles.	Global Journal of Biotechnology & Biochemistry	5	55-61	2010
38.	Dhar Purkayastha G., <b>Saha A.</b> and Saha D.	Characterization of Antagonistic Bacteria Isolated from Tea Rhizosphere in Sub-Himalayan West Bengal as Potential Biocontrol Agents in Tea.	Journal of Mycology and Plant pathology	40	27-37	2010



39.	Chakraborty B.N., Chakraborty U., <b>Saha A.</b> , Sunar K. and Dey P.L.	Evaluation of Phosphate Solubilizers from Soils of North Bengal and Their Diversity Analysis.	World Journal of Agricultural Sciences	6	195- 200	2010
40.	Ghosh P., Mandal A., Chakraborty P., Rasul M.G., Chakraborty M. and <b>Saha A.</b>	Triterpenoids from Psidium guajava with Biocidal Activity.	Indian journal of pharmaceutical sciences.	72	504- 507	2010
41.	Sen S., Rai M., Acharya R., Dasgupta S., <b>Saha A.</b> , Acharya K.	Biological control of pathogens causing the Cymbidium pseudobulb rot complex using Fluorescent Pseudomonas strain BRL-1.	Journal of Plant Pathology	91	617- 621	2009
42.	<b>Saha A.</b> , Isha M., Dasgupta S. and Saha D.	Influence of culture media and environmental factors on growth and sporulation of Colletotrichum gloeosporioides Penz.) Sacc. causing anthracnose of brinjal Solanum melongena L.)	Environ & Ecology	27	872- 879	2009
43.	Misra T. K., <b>Saha A.</b> , Nanda A. K., Biswas R. and Mandal P.	Shade trees in tea plantations in different soil conditions of North Bengal.	Pleone.	3	219- 213	2009
44.	Misra T. K., <b>Saha A.</b> , Nanda A. K. and Mandal P.	Soil sampling in tea plantation for fertility evaluation: A guideline.	The Assam review & tea news.	97		2009
45.	Chakraborty B. N., Chakraborty U., <b>Saha A.</b> , Dey P. L. and Sunar K.	Screening of Phosphorus Solubilizing Aspergilli Isolates from Soils of North Bengal and Their Effects on Soybean.	Journal of Mycology and Plant pathology	38	227- 233	2008
46.	Sarma M. S., <b>Saha A.</b> and Roy A.	Organotin(IV) carboxylates of cyclopropane carboxylic acid and 3-cyclohexylpropanoic acid : synthesis, characterization and biological activity. The crystal structure of biscyclopropanecarboxylato tetramethyldistannoxane.	Applied Organometallic Chemistry	22	369- 377	2008
47.	<b>Saha A.</b> , Mandal P, Dasgupta, S. and Saha, D.	Influence of culture media and environmental factors on mycelial Growth and sporulation of Pat.) Griffon and Mable. Lasiodiplodia theobromae	J.Environ. Biol.	29	407- 410	2008
48.	Saha D., Dharpurkayastha G. and <b>Saha A.</b>	Degradation of mancozeb and thiophanate-methyl by bacteria isolated from tea-garden soil.	Environment and Ecology.	26	2231- 2235	2008
49.	Chakraborty B. N., Chakraborty U., <b>Saha A.</b> , Dey P. L. and Sunar, K.	Searching for phosphate solubilising fungal isolates from soil.	NBU Journal of Plant Sciences	2	30-38	2008
50.	Misra T. K., <b>Saha A.</b> , Nanda A. K. and Mandal P.	Variation of antioxidant properties and phytochemical constituents of tea cultivated under various agronomic conditions at Terai region of North Bengal.	NBU Journal of Plant Sciences	2	58-66	2008

51.	<b>Saha A.</b> , Dasgupta S., Mandal P and Saha D.	Influence of culture media and environmental factors on mycelia growth of <i>Curvularia eragrostidis</i> .	NBU Journal of Plant Sciences	2	77-85	2008
52.	<b>Saha A.</b> , S. Dasgupta, and D. Saha.	Immunotechniques: concept and application in plant pathology.	NBU J of Pl. Sciences	1	45-49	2007
53.	Dasgupta S., Saha D. and <b>Saha A.</b>	Yield response of <i>Pleurotus sajor-caju</i> grown on different substrates of North Bengal.	Geobios.	34	165-168	2007
54.	Sen S., Ghosh S., <b>Saha A.</b> and Acharya K.	Isolation, Characterization and screening of fluorescent pseudomonads against the pathogens of <i>Cymbidium Pseudobulb Rot</i> .	Environ. & Ecology.	25	355-363	2007
55.	Sen S., Acharya R., <b>Saha A.</b> , Acharya K.	A new report of <i>Cymbidium</i> spp. Pseudobulb rot orchestrated by <i>Erwinia carotovora</i> , <i>Fusarium oxysporum</i> , and <i>Mucor hiemalis</i> f. <i>hiemalis</i> .	Plant Disease	90	1460	2006
56.	Sen S, <b>Saha A</b> , Acharya K	In vitro inhibition of <i>Mucor hiemalis</i> f. <i>hiemalis</i> fluorescent pseudomonas BRL-1.	Environ and eco	24	606-610	2006
57.	S. Dasgupta, D. Saha and <b>A. Saha</b>	Immunoserological studies on pathogenicity of <i>Curvularia eragrostidis</i> in different tea varieties.	Journal of Appl Microbiol.	98	1084-1092	2005
58.	Saha, D., Dasgupta, S. and <b>Saha, A.</b>	Antifungal activity of some plant extracts against important fungal pathogens of tea ( <i>Camellia sinensis</i> )	Pharm. Biol.	43	87-91	2005
59.	Saha, D., Dasgupta, S. and <b>Saha, A.</b>	Control of foliar tea diseases by leaf extracts of <i>Polyalthia longifolia</i> .	J of Mycol and Pl Pathol.	35	132-136	2005
60.	Sen S, <b>Saha A</b> and Acharya K	In vitro inhibition of <i>Fusarium oxysporum</i> by fluorescent <i>Pseudomonas BRL-1</i> .	J. Botan. Soc. Bengal	59	31-36	2005
61.	<b>Saha, A.</b> Dasgupta, S. and Saha, D.	Discovery of <i>Curvularia eragrostidis</i> on tea ( <i>Camellia sinensis</i> (L.) O. Ktze) leaves from clonal-cutting nurseries in North Bengal.	Environ. and Eco.	19	846-848	2001
62.	U. Chakraborty, P. Basu, R. Das, <b>A. Saha</b> and B.N. Chakraborty.	Evaluation of antiserum against <i>Pestalotiopsis theae</i> for the detection of grey blight of tea by ELISA Folia	Folia Microbiologica	41	413-418	1996
63.	B.N. Chakraborty, P. Basu, R. Das, <b>A. Saha</b> and U. Chakraborty	Detection of cross reactive antigens between <i>Pestalotiopsis theae</i> and tea leaves and their cellular location.	Ann. of App. Biol.	127	Nov-21	1995
64.	B.N. Chakraborty and <b>A. Saha.</b>	Accumulation of antifungal compounds in tea leaf tissue infected with <i>Bipolaris carbonum</i> .	Folia Microbiologica	39	409-414	1994
65.	B.N. Chakraborty and <b>A. Saha.</b>	Detection and cellular location of cross reactive antigens shared by <i>Camellia sinensis</i> and <i>Bipolaris carbonum</i> .	Physiol. and Mol. Pl. Pathol..	44	403-416	1994

66.	<b>Saha A.</b> and B.N. Chakraborty.	Phytotoxic effect of metabolic byproducts in the culture filtrate of <i>Bipolaris carbonum</i> and <i>Camellia sinensis</i> .	Geobios	19	15-17	1992
67.	<b>Saha A.</b> and B.N. Chakraborty.	Spore germination of <i>Bipolaris carbonum</i> causing tea leaf disease.	Ind.Bot. Contactor	7	131-133	1990
68.	B.N. Chakraborty and <b>A. Saha.</b>	Toxin production by <i>Bipolaris carbonum</i> and its effect on tea leaves.	Ind. Bot. Contactor	6	35-37	1989
69.	B.N. Chakraborty and <b>A. Saha.</b>	Biological activity of leaf diffusates of tea in relation to resistance to <i>Bipolaris carbonum</i> .	Environ. and Eco.	7	717-720	1989

### Books/Reports/Chapters/General articles etc. (Total number – 18)

S.No	Title	Author's Name	Publisher	Year of Publication
1.	Substrate Based Mass Production of Mycorrhiza Towards Sustainable Development in Plant - A Valuable Resource of Sustainable Agriculture, Food and Medicine Ed.Sinha D. & De R.P.	Ray A., Shaw N. and Saha A.	ABS Books, DELHI	2021
2.	Nutrient availability and plant–microbe interactions in phytoremediation of metalliferous soils. In: Phytoremediation of Environmental Pollutants.	Saha D., Das S., Chakraborty P. and <b>Saha A.</b>	CRC Press, Taylor & Francis Group, Boca Raton, FL, USA	2018
3.	Detection of <i>Tomato leaf curl virus</i> in cultivated varieties of tomato and other plants of sub-Himalayan West Bengal.	Saha B., Saha D. and <b>Saha A.</b>	Satish serial publishing house, Delhi	2013
4.	Dominant rhizosphere bacteria as source of antifungal agents and PGPR.	Ghosh A., Saha A. and Saha D.	Satish serial publishing house, Delhi	2013
5.	Important begomoviruses of some economically important horticultural crops and associated crops of sub-Himalayan West Bengal and Brahmaputra valley of Assam.	<b>Saha A.</b> , Saha B. and Saha D.	Sarat Impression Limited, Kolkata	2012
6.	Biological control of plant diseases by <i>Serratia</i> species: a review or a case study.	Saha D, Dhar Purkayastha G. and <b>Saha A.</b>	Bentham e-Books, Canada	2012
7.	Study of free-radical scavenging activity in different grades of organically and non organically produced tea.	Misra T. K., <b>Saha A.</b> , Nanda A. K. and Mandal P.	Asian agri-history foundation	2008
8.	Plant extract induced chitinase activity in tea seedlings challenged with <i>Lasioidiplodia theobromae</i> , causal pathogen of diplodia disease.	<b>Saha A.</b> , Mandal P, Dasgupta, S. and Saha, D.	Proceedings of the international conference, Bangkok, Thailand	2007

9.	Biological control of anthracnose in eggplant ( <i>Solanum melongena</i> ) caused by <i>Colletotrichum gloeosporioides</i> with some microbial antagonists.	Saha D., Isha, M. Purkayastha G.D. and <b>Saha, A.</b>	Proceedings of the international conference, Bangkok, Thailand	2007
10.	Screening of tea varieties for susceptibility to <i>Lasioidiplodia theobromae</i> by serological techniques and induction of resistance by botanicals.	<b>Saha A.</b> , Mandal P, Dasgupta, S. and Saha, D.	XVI international plant protection congress, Glasgow, Scotland, UK.	2007
11.	Reduction of disease incidence in young tea plants against <i>Curvularia eragrostidis</i> by biotic and abiotic elicitors.	<b>Saha, A.</b> , Dasgupta,S., Mandal,P. and Saha, D.	Narosa Publishing House. New Delhi	2005
12.	A foliar disease of <i>Streptocaulon sylvestre</i> an endemic and endangered plant.	<b>Saha, A.</b> Mazumdar, S.,RoyChowdhury, P. and Saha, D.	Bishen Singh Mahendra Pal Singh, New Delhi	2001
13.	Cultivation of Oyster Mushroom	B.N. Chakraborty, U. Chakraborty, <b>A. Saha</b> and M. Bose	University of North Bengal	1998
14.	Detection and management of blister blight of tea.	Chakraborty B.N., Chakraborty U., <b>Saha A.</b> , Das R. and Basu P.	Malhotra Publishing House, New Delhi	1997
15.	Serological relationship between <i>Glomerella cingulata</i> (Stoneman) Spauld and Schrenk and <i>Camellia sinensis</i> (L.) O. Kuntze.	Chakraborty B.N., Chakraborty U., Basu P., Das R. and <b>Saha A.</b>	Proceedings of international symposium on Plantation Crops.	1996
16.	Phenolic changes in tea leaves after inoculation with foliar fungal pathogens.	Chakraborty U., Das G., Das S.K., <b>Saha A.</b> and Chakraborty B.N.	Frontiers in Plant Science	1996
17.	Detection of antifungal compounds in tea leaves after infection with <i>Bipolaris carbonum</i> .	Chakraborty B.N. and <b>Saha A.</b>	M.D. Publications Pvt. Ltd., New Delhi	1996
18.	Defence strategies of tea ( <i>Camellia sinensis</i> ) against fungal pathogens.	Chakraborty B.N., Chakraborty U. and <b>Saha A.</b>	Marcel Dekker. Inc. New York	1995

#### **Fellow of National academic bodies:**

1. Fellow of ISMPP, Udaipur
2. Fellow of ISCON, Varanasi

#### **Editor of the Journals:**

1. Journal of Agricultural Technology, Thailand.
2. NBU Journal of Botany, India

#### **Reviewer of scientific Journals:**

1. African Journal of plant Pathology, Africa
2. Plant Disease, USA
3. Journal of environmental sciences, India

4. ARCC, Journals, India
5. Journal of Environmental Biology, India

**Membership of academic societies:**

1. Life member - Indian Phytopathological society
2. Life member - Indian society of Mycology and Plant Pathology
3. Life Member of Association of plant pathologists of India
4. Member of American Phytopathological Society

- **Ph.D Supervised (till date): 27 (Awarded)**

- **Scholars working for Ph. D. Degree (at present): 12**

[Registered = 07 + Joined recently in different adhoc fellowships (yet to register) = 5)