

PROFORMA FOR BIO-DATA (to be uploaded)

1. Name and full correspondence address

Prof V. K. Baranwal,
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3. Institution

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4. Date of Birth

10/07/1960

5. Gender (M/F/T)

M

6. Category Gen/SC/ST/OBC

Gen

7. Whether differently abled (Yes/No)

No

8. Academic Qualification (Undergraduate Onwards)

S. No.	Degree	Year	Subject	University/Institution	% of Marks
1.	Post Doc	2000–2001	Biotechnology	Rutgers, The State University of New Jersey	(DBT Overseas Fellowship)
2.	Ph.D.	1989	Botany – Virology	Lucknow University	–
3.	M.Sc.	1981	Botany	Lucknow University	68.6 (First in Merit)
4.	B.Sc.	1979	Botany, Zoology, Chemistry	Gorakhpur University	65.1

9. Work experience (in chronological order).

S. No.	Positions Held	Name of the Institute	From	To	Pay Scale
1.	Scientist	ICAR–NCIPM / ICAR–CPCRI, Kasaragod	21.06.1985	20.06.1990	₹8,000–13,500 (V th -Pay Commission)
2.	Scientist (Senior Scale)	ICAR–NCIPM, Faridabad / Delhi	21.06.1990	20.06.1998	₹10,000–15,200 (V th Pay Commission)
3.	Senior Scientist & Faculty	ICAR–NCIPM ICAR–IARI, Pusa, New Delhi-12	21.06.1998 09.1.1999	08.1.1999 20.06.2006	₹12,000–18,300 (Pre-revised); ₹37,400–67,000 + GP ₹9000 (from 01.01.2006)
4.	Professor / Principal Scientist & Faculty	ICAR–IARI, New Delhi	21.06.2006	31.01.2022	₹1,44,200 – ₹2,18,200 (Reached max in 2021)
5.	National Professor	ICAR–IARI, New Delhi	01.02.2022	09.07.2022	₹2,10,000 + allowances

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

S. No.	Name of Award	Awarding Agency	Year
i.	Fellow	National Academy of Sciences, India	2016
ii.	Fellow	National Academy of Agricultural Sciences	2016
iii.	Fellow	Indian Phytopathological Society, Delhi	2015
iv.	Fellow	Indian Virological Society, Delhi	2012
v.	Best Teacher Award	ICAR-IARI, Delhi	2018
vi.	Sharda Lele Award	Indian Phytopathological Society, Delhi	2019
vii.	Life Time Achievement Award	Himalayan Phytopathological Society	2022
viii.	Prof. K. S. Bhargava Oration	Indian Virological Society	2022
ix.	Life Time Achievement Award	ICFBPMI-2024 at BHU, Varanasi	2024
x.			

11. Publications (List of papers published in SCI Journals, in year wise descending order).

S.No.	Authors	Title	Name of Journal	Volume	Pages	Year	Impact Factor
1.	Kishan, G; Kumar, R; Sharma, SK; Srivastava, N; Gupta, N; Kumar, A; Baranwal, VK;	Development and application of crude sap to based recombinase polymerase amplification assay for the detection and occurrence of grapevine geminivirus A in Indian grapevine cultivars	Frontiers in Plant Science	14	45992	2023	4.8
2.	Mahanta, DK; Jangra, S; Priti; Ghosh, A; Sharma, PK; Iquebal, MA; Sarika, J; Baranwal, VK; Kalia, V; Chander, S;	Groundnut Bud Necrosis Virus Modulates the Expression of Innate Immune, Endocytosis, and Cuticle Development Associated Genes to Circulate and Propagate in Its Vector, Thrips palmi	Frontiers in Microbiology	13	42370	2022	4.5
3.	Nekkanti, A; Chakraborty, P; Ghosh, A; Iquebal, MA; Jaiswal, S; Baranwal, VK;	Transcriptomic changes of Bemisia tabaci Asia II 1 induced by chilli leaf curl virus trigger infection and circulation in its vector	Frontiers in Microbiology	13	41640	2022	4.5
4.	Sidharthan, VK; Sevanthi, AM; Jaiswal, S; Baranwal, VK;	Robust virome profiling and whole genome reconstruction of viruses and viroids enabled by use of available mRNA and sRNA to Seq datasets in grapevine (Vitis vinifera L.)	Frontiers in Microbiology	11	41640	2020	4.5
5.	Tzanetakis, IE; Aknadibossian, V; Špak, J; Constable, F; Harper, SJ; Hammond, J; Candresse, T; Folimonova, SY; Freitas-Astúa, J; Fuchs, M;	Streamlining Global Germplasm Exchange: Integrating Scientific Rigor and Common Sense to Exclude Phantom Agents from Regulation	Plant Disease	109	736-755	2024	4.4
6.	Kumar, A; Rout, BM; Choudhary, S; Sureja, AK; Baranwal, VK; Pant, RP; Kaur, B; Jain, RK; Basavaraj, YB;	First report of Cucurbit chlorotic yellows virus infecting pumpkin in India	Plant Disease	106	1767	2022	4.4

7.	Kumar, A; Rout, BM; Choudhary, S; Sureja, AK; Baranwal, VK ; Pant, RP; Kaur, B; Jain, RK; Basavaraj, YB;	First report of cucurbit chlorotic yellows virus (CCYV) infecting pumpkin in India	Plant Disease	106	1767	2021	4.4
8.	Basavaraj, YB; Siwach, J; Kumar, A; Bhattarai, A; Qayoom, N; Baranwal, VK ; Jain, RK;	First Report of Natural Infection by Capsicum Chlorosis Virus on Amaryllis (Hippeastrum hybridum) Plants from India	Plant Disease	104	3086-3086	2020	4.4
9.	Nabi, SU; Baranwal, VK ;	First report of apple hammerhead viroid infecting apple cultivars in India	Plant Disease	104	3086	2020	4.4
10.	Singhal, P; Kapoor, R; Saritha, RK; Baranwal, VK ;	First Report of Grapevine Yellow Speckle Viroid ^{to2} Infecting Grapevine (Vitis vinifera) in India	Plant Disease	103	166-166	2019	4.4
11.	Sharma, SK; Chanu, NT; Anand, YR; Singh, YH; Singh, S; Raj, C; Baranwal, VK ; Rai, R; Sanabam, R; Roy, SS;	First report of large cardamom chirke virus, a macluravirus naturally infecting chilli crop in India	Plant Disease	103	45717	2019	4.4
12.	Saritha, RK; Shrawan, S; Kalia, P; Jain, RK; Baranwal, VK ;	Association of Pedilanthus leaf curl virus and satellites with carrot (Daucus carota) in India	Plant Disease	101	843	2017	4.4
13.	Rao, GP; Prakasha, TL; Priya, M; Thorat, V; Kumar, M; Baranwal, VK ; Mishra, AN; Yadav, A;	First Report of Association of Candidatus Phytoplasma cynodontis (16SrXI ^{toB} Group) With Streak, Yellowing, and Stunting Disease in Durum and Bread Wheat Genotypes From Central India	Plant Disease	101	1314-1314	2017	4.4
14.	Pant, RP; Kapoor, R; Kumar, S; Srivastava, N; Kumar, M; Baranwal, VK ;	First Report of Mild Mosaic in Ground Orchid, Phaius tankervilleae, in India Associated with Infection of Calanthe mild mosaic virus	Plant Disease	101	1960-1960	2017	4.4
15.	Kumar, S; Sawant, SD; Sawant, IS; Prabha, K; Jain, RK; Baranwal, VK ;	First report of grapevine leafroll ^{to} associated virus 1 Infecting grapevines in India	Plant Disease	96	1828-1828	2012	4.4
16.	Baranwal, VK ; Singh, P; Jain, RK; Joshi, S;	First report of Garlic virus X infecting garlic in India	Plant Disease	95	1197-1197	2011	4.4
17.	Manimekalai, R; Soumya, VP; Sathish Kumar, R; Selvarajan, R; Reddy, K; Thomas, GV; Sasikala, M; Rajeev, G; Baranwal, VK ;	Molecular detection of 16SrXI group phytoplasma associated with root (wilt) disease of coconut (Cocos nucifera) in India	Plant Disease	94	636-636	2010	4.4
18.	Majumder, S; Baranwal, VK ;	First report of Garlic common latent virus in garlic from India	Plant Disease	93	106-106	2009	4.4
19.	Singh, RP; Dilworth, AD; Baranwal, VK ; Gupta, KN;	Detection of Citrus exocortis viroid, Iresine viroid, and tomato chlorotic dwarf viroid in new ornamental host plants in India	Plant Disease	90	1457-1457	2006	4.4
20.	Verma, R; Baranwal, VK ; Prakash, S; Smer, SPS; Pant, RP; Ahlawat, YS;	First report of Papaya ringspot virus W in sponge gourd from India	Plant disease	90	974-974	2006	4.4
21.	Ahlawat, YS; Baranwal, VK ; Thinlay; Doe, D; Majumder, S;	First report of citrus greening disease and associated bacterium "Candidatus Liberibacter asiaticus" from Bhutan	Plant disease	87	448-448	2003	4.4
22.	Priti; Jangra, S; Baranwal, VK ; Dietzgen, RG; Ghosh, A;	A rapid field ^{to} based assay using recombinase polymerase amplification for identification of Thrips palmi, a vector of tos poviruses	Journal of pest science	94	219-229	2021	4.3
23.	Thapa, P; Diksha, D; Sharma, SK; Khan, ZA; Gupta, N;	Understanding the dissemination of viruses and viroids identified through virome analysis of major	Scientia Horticulturae	337	42736	2024	4.2

	Shimray, MY; Prajapati, MR; Holkar, SK; Naik, S; Saha, S;	grapevine rootstocks and RPAtobased detection of prevalent grapevine virus B					
24.	Sharma, SK; Kumar, PV; Poswal, R; Rai, R; Geetanjali, AS; Prabha, K; Jain, RK; Baranwal, VK;	Occurrence and distribution of banana streak disease and standardization of a reliable detection procedure for routine indexing of banana streak viruses in India	Scientia Horticulturae	179	277-283	2014	4.2
25.	Manimekalai, R; Soumya, VP; Nair, S; Thomas, GV; Baranwal, VK;	Molecular characterization identifies 16SrXltob group phytoplasma ('Candidatus Phytoplasma oryzae'torelated strain) associated with root wilt disease of coconut in India	Scientia Horticulturae	165	288-294	2014	4.2
26.	Prajapati, MR; Manav, A; Singh, J; Kumar, P; Kumar, A; Kumar, R; Prakash, S; Baranwal, VK;	Identification and Characterization of a Garlic Virus E Genome in Garlic (Allium sativum L.) Using HightoThroughput Sequencing from India	Plants	11	45870	2022	4.1
27.	Nabi, SU; Baranwal, VK; Rao, GP; Mansoor, S; Vladulescu, C; Raja, WH; Jan, BL; Alansi, S;	HightoThroughput RNA Sequencing of Mosaic Infected and Nontoinfected Apple (Malus× domestica Borkh.) Cultivars: From Detection to the Reconstruction of Whole Genome of Viruses and Viroid	Plants	11	42370	2022	4.1
28.	Balasubrahmanyam, A; Baranwal, VK; Lodha, ML; Varma, A; Kapoor, HC;	Purification and properties of growth stagetodependent antiviral proteins from the leaves of Celosia cristata	Plant Science	154	13-21	2000	4.1
29.	Jangra, S; Ghosh, A; Mukherjee, S; Baranwal, VK; Dietzgen, RG;	Development of a polymerase spiral reactiontobased isothermal assay for rapid identification of Thrips palmi	Frontiers in Molecular Biosciences	9	45962	2022	4
30.	Das, AK; Chichghare, SA; Sharma, SK; Kumar, JP Tej; Singh, S; Baranwal, VK; Kumar, A; Nerkar, S	Genetic diversity and population structure of 'Candidatus Liberibacter asiaticus' associated with citrus Huanglongbing in India based on the prophage types	World Journal of Microbiology and Biotechnology	37	41640	2021	4
31.	Prabha, K; Baranwal, VK	The genome sequence of an isolate of Indian citrus ringspot virus infecting the sweet orange in India	Journal of virology	86	12446	2012	3.8
32.	Prajapati, MR; Gupta, N; Shimray, MY; Gehlot, J; Tiwari, A; Thapa, P; Diksha, D; Holkar, SK; Mahajan, PJ; Saha, S; Baranwal, VK	Genome characterization of a newly discovered grapevine leafroll associated virus S, in the genus ampelovirus by high throughput sequencing	Journal of Genetic Engineering and Biotechnology	23	45839	2025	3.6
33.	Srivastava, N; Prajapati, MR; Kumar, R; Bhardwaj, P; Gupta, N; Chandel, V; Sharma, SK; Baranwal, VK	Comprehensive virome profiling of sugarcane and simplified duplex OneStep RTtoPCR assay reveals the prevalence of sugarcane streak mosaic virus along with sugarcane yellow leaf virus in India	Journal of Genetic Engineering and Biotechnology	22	41640	2024	3.6
34.	Singhal, P; Diksha, D; Baranwal, VK; Singh, N; Ghosh, A	Evidence of true seed transmissible nature of turnip mosaic virus in mustard species	BMC genomics	25	45839	2024	3.5
35.	Khan, ZA; Sharma, SK; Gupta, N; Diksha, D; Thapa, P; Shimray, MY; Prajapati, MR; Nabi, SU; Watpade, S; Verma, M	Assessing the de novo assemblers: a metaviromic study of apple and first report of citrus concave gum associated virus,	BMC Genomics	25	42005	2024	3.5

		apple rubbery wood virus 1 and 2 infecting apple in India					
36.	Angira, A; Baranwal, VK ; Ranjan, A; Choudhary, N	Identification of an RNA silencing suppressor encoded by an Indian citrus ringspot virus	Physiology and Molecular Biology of Plants	31	93-104	2024	3.4
37.	Bhardwaj, P; Baranwal, VK ; Sharma, SK; Srivastava, N; Prajapati, MR; Kumar, R; Gupta, N	Duplex RT RPA/RPA assay for simultaneous detection of banana streak Mysore virus and banana bunchy top virus	Physiological and Molecular Plant Pathology	137	45870	2025	3.3
38.	Khan, ZA; Diksha, D; Thapa, P; Shimray, MY; Sharma, SK; Gupta, N; Kishan, G; Watpade, S; Baranwal, VK	Genome analysis of viruses of Phenuiviridae, Betaflexiviridae and Bromoviridae, and apple scar skin viroid in pear by highthroughput sequencing revealing host expansion of a rubodvirus and an ilarvirus	Physiological and Molecular Plant Pathology	129	45901	2024	3.3
39.	Kishan, G; Sharma, SK; Holkar, SK; Gupta, N; Khan, ZA; Singh, SK; Baranwal, VK	Diverse spectra of virus infection identified through high throughput sequencing in nursery plants of two Indian grapevine cultivars	Physiological and Molecular Plant Pathology	128	45992	2023	3.3
40.	Prajapati, MR; Manav, A; Singhal, P; Sidharthan, VK; Sirohi, U; Kumar, M; Bharti, MK; Singh, J; Kumar, P; Kumar, R	Complete Genomic RNA Sequence of Tuberose Mild Mosaic Virus and Tuberose Mild Mottle Virus Acquired by Highthroughput Sequencing	Pathogens	11	45931	2022	3.3
41.	Devi, OP; Sharma, SK; Sana- mbi, K; Devi, KS; Pathaw, N; Roy, SS; Chanu, NT; Sanabam, R; Devi, HC; Singh, AR	A Simplified Multiplex PCR Assay for Simultaneous Detection of Six Viruses Infecting Diverse Chilli Species in India and Its Application in Field Diagnosis	Pathogens	12	42370	2022	3.3
42.	Singhal, P; Baranwal, VK ; Prajapati, MR; Singh, J	High-throughput RNA sequencing and genetic structure studies of turnip mosaic virus infecting black and yellow mustard revealing emergence of world-B3 pathotype in India	Journal of Applied Microbiology	133	2618-2630	2022	3.2
43.	Singh, J; Singh, MK; Ranjan, K; Kumar, A; Kumar, P; Sirohi, A; Baranwal, VK	First complete genome sequence of garlic virus X infecting Allium sativumtoG282 from India	Genomics	112	1861-1865	2020	3
44.	Diksha, D; Sharma, SK; Wangkhem, B; Phurailatpam, S; Singh, YH; Choudhary, N; Baranwal, VK	Simplified extraction protocol of citrus tissues for rapid detection of 'Candidatus Liberibacter asiaticus' using isothermal recombinase polymerase amplification assay and its application for prevalence studies	South African Journal of Botany	165	517-525	2024	2.7
45.	Prajapati, MR; Singh, J; Kumar, P; Kumar, R; Baranwal, VK	Identification of a novel member of the alphacoronavirus genus in Plantago ovata through transcriptome dataset mining	South African Journal of Botany	157	135-137	2023	2.7
46.	Srivastava, N; Prajapati, MR; Sharma, SK; Gupta, N; Chandel, V; Baranwal, VK	Discovery of novel 'sugarcane totivirus 1' from Saccharum officinarum by high throughput sequencing	Molecular Biology Reports	52	45870	2025	2.6
47.	Yadav, RK; Diksha, D; Prajapati, MR; Choudhary, H; Lata, S; Shimray, MY; Naik, R; Gupta, N; Baranwal, VK ; Sharma, SK	Identification and molecular characterization of a novel satellite associated with okra enation leaf curl virus infected okra (Abelmoschus esculentus L.) in India	3 Biotech	15	45870	2025	2.6
48.	Kumar, R; Gupta, N; Sharma, SK; Kishan, G; Srivastava, N; Khan, ZA; Kumar, A; Baranwal, VK	Mixed infection of two mandariviruses identified by high throughput sequencing in Kinnow mandarin and	3 Biotech	14	45992	2024	2.6

		development of their specific detection using duplex RT ^{to} PCR					
49.	Rai, R; Anand, YR; Monteshori, S; Diksha, D; Dubey, SK; Baranwal, VK ; Sharma, SK	Novel genetic variants of banana streak MY virus and banana streak IM virus naturally infecting banana in Northeast India	3 Biotech	14	277	2024	2.6
50.	Rauniyar, N; Singhal, P; Diksha, D; Srivastava, D; Baranwal, VK	Characterization of a recombinant tomato leaf curl New Delhi Virus (LCNDV) in a perennial medicinal climber host (<i>Ipomoea cairica</i> (L.) Sweet)	3 Biotech	13	45870	2023	2.6
51.	Jaiswal, D; Sidharthan, VK; Sharma, SK; Rai, R; Choudhary, N; Ghosh, A; Baranwal, VK	Candidatus <i>Liberibacter asiaticus</i> manipulates the expression of vitellogenin, cytoskeleton , and endocytotic pathway to related genes to become circulative in its vector, <i>Diaphorina citri</i> (Hemiptera: Psyllidae)	3 Biotech	11	45992	2021	2.6
52.	Reddy, MG; Baranwal, VK ; Sagar, D; Rao, GP	Molecular characterization of chickpea chlorotic dwarf virus and peanut witches' broom phyto plasma associated with chickpea stunt disease and identification of new host crops and leafhopper vectors in India	3 Biotech	11	44927	2021	2.6
53.	Kumar, R; Pant, RP; Kapoor, S; Khar, A; Baranwal, VK	Development of polyclonal antibodies using bacterially expressed recombinant coat protein for the detection of Onion yellow dwarf virus (OYDV) and identification of virus free onion genotypes	3 Biotech	11	45931	2021	2.6
54.	Nabi, SU; Baranwal, VK ; Yadav, MK; Rao, GP	Association of Apple necrotic mosaic virus (ApNMV) with mosaic disease in commercially grown cultivars of apple (<i>Malus domestica</i> Borkh) in India	3 Biotech	10	45901	2020	2.6
55.	Choudhary, N; Lodha, ML; Baranwal, VK	The role of enzymatic activities of antiviral proteins from plants for action against plant pathogens	3 Biotech	10	41275	2020	2.6
56.	Meena, RP; Prabha, K; Baranwal, VK	Genome characterization of citrus yellow vein to clearing virus: limited heterogeneity of viral genomes in Mandarivirus infecting different citrus species	3 Biotech	9	45962	2019	2.6
57.	Kumar, PV; Sharma, SK; Rishi, N; Baranwal, VK	Efficient immunodiagnosis of Citrus yellow mosaic virus using polyclonal antibodies with an expressed recombinant virion associated protein	3 Biotech	8	45839	2018	2.6
58.	Sidharthan, VK; Reddy, V; Kiran, G; Rajeswari, V; Baranwal, VK ; Kumar, MK; Kumar, KS	Probing of plant transcript omes reveals the hidden genetic diversity of the family Secoviridae	Archives of Virology	169	43101	2024	2.5
59.	Prajapati, MR; Thapa, P; Diksha, D; Sharma, SK; Gupta, N; Baranwal, VK	Complete genome sequence of grapevine yellow speckle viroid 3, a novel apscaviroid infecting grapevine, characterized by high-throughput sequencing	Archives of Virology	169	194	2024	2.5
60.	Sidharthan, VK; Baranwal, VK	Mining of the water hyssop (<i>Bacopa monnieri</i>) transcript ome reveals genome sequences of two putative novel	Archives of Virology	166	1985-1990	2021	2.5

		rhabdoviruses and a solendovirus					
61.	Singh, YH; Sharma, SK; Sinha, B; Baranwal, VK ; Singh, NB; Chanu, NT	Genetic Variability Based on Tandem Repeat Numbers in a Genomic Locus of 'Candidatus Liberibacter asiaticus' Prevalent in North East India	The Plant Pathology Journal	35	45931	2020	2.5
62.	Dubey, AK; Sinha, P; Baranwal, VK ; Mishra, S; Saritha, RK	Temperature influence on leaf crinkle disease expression in urdbean (Vigna mungo (L.) Hepper) and potential distribution of the disease in India	Crop Protection	120	84-90	2019	2.5
63.	Singh, YH; Sharma, SK; Sinha, B; Baranwal, VK ; Singh, NB; Chanu, NT; Roy, SS; Ansari, MA; Ningombam, A; Devi, PS	Genetic Variability Based on Tandem Repeat Numbers in a Genomic Locus of 'Candidatus Liberibacter asiaticus' Prevalent in North East India	The Plant Pathology Journal	35	644	2019	2.5
64.	Rai, R; Khurana, SMP; Kumar, S; Gupta, N; Baranwal, VK	Serological detection of Grapevine leafroll associated virus 4 in grapevine growing areas of India using polyclonal antiserum raised against the recombinant coat protein	Crop Protection	109	128-135	2018	2.5
65.	Kapoor, R; Srivastava, N; Kumar, S; Saritha, RK; Sharma, SK; Jain, RK; Baranwal, VK	Development of a recombinase polymerase amplification assay for the diagnosis of banana bunchy top virus in different banana cultivars	Archives of virology	162	2791-2796	2017	2.5
66.	Khanna, S; Singh, J; Singh, R; Kumar, P; Rani, T; Baranwal, VK ; Sirohi, A; Bertaccini, A	Evidence of association of a 'Candidatus Phytoplasma cynodontis' with bermuda grass (Cynodon dactylon) and 'Candidatus Phytoplasma asteris' with periwinkle (Catharanthus roseus) from western Uttar Pradesh, India	Crop Protection	74	138-144	2015	2.5
67.	Baranwal, VK ; Jain, P; Saritha, RK; Jain, RK; Gautam, NK	Detection and partial characterization of Cowpea mild mottle virus in mungbean and urdbean by deep sequencing and RT-PCR	Crop Protection	75	77-79	2015	2.5
68.	Khanna, S; Singh, J; Singh, R; Kumar, P; Rani, T; Baranwal, VK ; Sirohi, A; Bertaccini, A	Evidence of association of a 'Candidatus Phytoplasma cynodontis' with bermuda grass (Cynodon dactylon) and 'Candidatus Phytoplasma asteris' with periwinkle (Catharanthus roseus) from western Uttar Pradesh, India.	Crop Protection	74	138-144	2015	2.5
69.	Srivastava, N; Kumar, R; Kapoor, R; Kumar, A; Sharma, SK; Gupta, N; Bhardwaj, P; Kishan, G; Pant, RP; Baranwal, VK	Development of Polyclonal Antibodies Based Serological Method for the Detection of Calanthe Mild Mosaic Virus and Application in Virus Certification Programme	Molecular Biotechnology	67	45870	2024	2.4
70.	Sidharthan, VK; Rajeswari, V; Baranwal, VK	Broadening the host range and genetic diversity of waikaviruses	Virology	582	106-113	2023	2.4
71.	Yadav, MK; Yadav, MK; Lal, SK; Sevanthi, AM; Nabi, SU; Baranwal, VK	Evaluation of soybean genotypes for cowpea mild mottle virus resistance through phenotypic reaction and genotypic analysis	Plant Pathology	72	1637-1648	2023	2.4
72.	Manzoor, S; Nabi, SU; Baranwal, VK ; Verma, MK; Parveen, S; Rather, TR; Raja, WH; Shafi, M	Overview on century progress in research on mosaic disease of apple (Malus domestica Borkh) incited by apple mosaic	Virology	587	41275	2023	2.4

		virus/apple necrotic mosaic virus					
73.	Sidharthan, VK; Rajeswari, V; Vanamala, G; Baranwal, VK	Revisiting the amalgaviral landscapes in plant transcriptomes expands the host range of plant amalgaviruses	Virology	577	65-73	2022	2.4
74.	Sidharthan, VK; Kalaivanan, NS; Baranwal, VK	Discovery of putative novel viruses in the transcriptomes of endangered plant species native to India and China	Gene	786	45901	2021	2.4
75.	Majumder, S; Arya, M; Pant, RP; Baranwal, VK	Shallot virus X in Indian shallot, a new virus report for India	Plant Pathology	57	396-396	2008	2.4
76.	Baranwal, VK ; Verma, HN	Characteristics of a virus inhibitor from the leaf extract of Celosia cristata	Plant pathology	46	523-529	1997	2.4
77.	Baranwal, VK ; Verma, HN	Localized resistance against virus infection by leaf extract of Celosia cristata	Plant pathology	41	633-638	1992	2.4
78.	Prajapati, MR; Gupta, N; Thapa, P; Diksha, D; Sharma, SK; Baranwal, VK	Identification and Characterization of a Novel Cytorhabdovirus Associated with Pear (P. communis 'Bartlett') Through RNAseq	Current Microbiology	82	45931	2025	2.3
79.	Gupta, N; Kumar, R; Kishan, G; Sharma, SK; Srivastava, N; Kumar, A; Baranwal, VK	Development of Simplified Recombinase Polymerase Amplification Assay for Rapid and Robust Detection of Citrus Yellow Vein Clearing Virus	Current Microbiology	81	45962	2024	2.3
80.	Prajapati, MR; Diksha, D; Thapa, P; Sharma, SK; Gupta, N; Baranwal, VK	Identification of a novel mitovirus in grapevine through highthroughput sequencing	International Microbiology	28	909-916	2024	2.3
81.	Sidharthan, VK; Vanamala, G; Rajeswari, V; Baranwal, VK	Identification of a putative novel cholivirus in the transcriptome of Gymnema sylvestre R. Br	Archives of Microbiology	205	45778	2023	2.3
82.	Kavi Sidharthan, V; Diksha, D; Singh, R; Choudhary, S; Naika, MBN; Baranwal, VK	Identification of two putative novel deltapartitiviruses and an enamovirus in coriander transcriptomes	Archives of Microbiology	205	45809	2023	2.3
83.	Ranjan, RK; Singh, D; Baranwal, VK	Simultaneous detection of brown rottoand soft rotto causing bacterial pathogens from potato tubers through multiplex PCR	Current microbiology	73	652-659	2016	2.3
84.	Devi, OP; Sharma, SK; Devi, KS; Gupta, N; Singh, AR; Roy, SS; Rai, R; Sana-mpi, K; Baranwal, VK	First report of natural infection of Capsicum chlorosis virus (Orthotospovirus capsiciflavi) in Capsicum chinense and Capsicum frutescens from jhum groves of North East India	Journal of Plant Pathology	106	281-282	2024	2.2
85.	Prajapati, MR; Gupta, S; Singh, J; Kumar, P; Baranwal, VK	First report of cucumber mosaic virus (CMV) naturally infecting amaryllis (Hippeastrum hybridum) in India	Journal of Plant Pathology	106	295-296	2024	2.2
86.	Prajapati, MR; Singh, J; Kumar, P; Baranwal, VK	First report of blackberry virus E (BVE) infecting garlic (Allium sativum L.) in India	Journal of Plant Pathology	105	353-354	2023	2.2
87.	Manav, A; Prajapati, MR; Singh, J; Kumar, P; Baranwal, VK	First report of garlic mitetoborne filamentous virus (GarMbFV) infecting garlic (Allium sativum L.) in India	Journal of Plant Pathology	104	817-818	2022	2.2
88.	Kumar, PV; Rai, R; Baranwal, VK ; Kumar, S; Rao, GP; Sureja, AK; Pant, RP	First report of cherry tomato leaf curl virus and associated DNA satellite in Daucus carota in India	Journal of Plant Pathology	104	827-828	2022	2.2
89.	Meena, RD; Baranwal, VK ; Lal, G; Sharma, YK; Meena, SS; Meena, NK	First report of Vanilla distortion mosaic virus on cumin (Cuminum cyminum L.) in India	Journal of Plant Pathology	104	877-877	2022	2.2

90.	Kumar, S; Singh, J; Baranwal, VK ; Rao, GP	First report of 16SrXItob subgroup phytoplasma in sapota showing flattened stem disease in India	Journal of Plant Pathology	103	659-660	2021	2.2
91.	Kapoor, R; Srivastava, N; Kumar, R; Sharma, SK; Rai, R; Kumar, S; Baranwal, VK	Detection of episomal banana streak Mysore virus by reverse transcriptionto recombina se polymerase amplification assay	Journal of Plant Pathology	102	499-503	2020	2.2
92.	Rai, R; Khurana, SMP; Kumar, S; Sharma, SK; Watpade, S; Baranwal, VK	Characterization of Grapevine leafrollto associated virus 4 from Indian vineyards	Journal of Plant Pathology	99	255-259	2017	2.2
93.	Gupta, N; Islam, S; Sharma, SK; Baranwal, VK	COMPLETE GENOME SEQUENCE OF AN ISOLATE OF LEEK YELLOW STRIPE VIRUS FROM GARLIC IN INDIA	Journal of Plant Pathology	99	793-797	2017	2.2
94.	Sharma, P; Sharma, S; Gautam, I; Baranwal, VK	NATURAL INFECTION OF GLYCINE MAX BY SEVEN VIRUSES BELONGING to DIFFERENT GENERA IN INDIA	Journal of Plant Pathology	98	569-575	2016	2.2
95.	Rao, GP; Kumar, A; Baranwal, VK	Classification of the sesame phytoplasma strains in India at the 16Sr subgroup level.	Journal of Plant Pathology	97	523-528	2015	2.2
96.	Madhupriya, GP; Kumar, A; Baranwal, VK	Classification of the sesame phytoplasma strains in India at the 16Sr subgroup level	Journal of Plant Pathology	97	523-528	2015	2.2
97.	Pramesh, D; Singh, P; Baranwal, VK	In vitro expression and purification of the coat protein gene of Garlic common latent virus and its application in ELISAtobased diagnostics	Journal of Plant Pathology	95	385-389	2013	2.2
98.	Gupta, N; Prabha, K; Islam, S; Baranwal, VK	First report of Leek yellow stripe virus in garlic from India.	Journal of Plant Pathology	95		2013	2.2
99.	Majumder, S; Baranwal, VK ; Joshi, S;	Simultaneous detection of Onion yellow dwarf virus and Shallot latent virus in infected leaves and cloves of garlic by duplex RTtoPCR	Journal of Plant Pathology	90	371-374	2008	2.2
100.	Singhal, P; Jaiswal, R; Sakpal, A; Prajapati, MR; Baranwal, VK ; Yadav, S; Singh, J;	Assessment of natural mixed infection of turnip mosaic virus and cucumber mosaic virus on growth and yield of mustard genotypes	Journal of Plant Diseases and Protection	132	41275	2025	2.1
101.	Kishan, G; Kumar, R; Sharma, SK; Srivastava, N; Gupta, N; Kumar, A; Baranwal, VK ;	Troubletofree detection of grapevine leafrollto associated virusto3 employing reverse transcriptionto recombina se polymerase amplification assay	Journal of Plant Diseases and Protection	131	35-47	2024	2.1
102.	Gupta, N; Rai, R; Islam, S; Meena, RP; Baranwal, VK ;	Production of polyclonal antibodies against leek yellow stripe virus (LYSV) coat protein expressed in Escherichia coli and its application in serological diagnostics	Letters in Applied Microbiology	76	45901	2023	2.1
103.	Nabi, SU; Madhu, GS; Rao, GP; Baranwal, VK ;	Development of multiplex RT-PCR assay for simultaneous detection of four viruses infecting apple (Malus domestica)	Letters in Applied Microbiology	74	586-592	2022	2.1
104.	Verma H.N., Baranwal V.K.	Antiviral activity and the physical properties of the leaf extract of Chenopodium ambrosoides L.	Proceedings: Plant Sciences	92	461-465	1983	2.1
105.	Diksha, D; Sidharthan, VK; Baranwal, VK ;	Identification of a novel monopartite begomovirus associated with leaf curl disease	Virus Genes	60	568-571	2024	1.9

		of Citharexylum spinosum in India					
106.	Sidharthan, VK; Nagendran, K; Baranwal, VK;	Exploration of plant transcriptomes reveals five putative novel poleroviruses and an enamovirus	Virus Genes	58	244-253	2022	1.9
107.	Sidharthan, VK; Rajeswari, V; Baranwal, VK;	Analysis of public domain plant transcriptomes expands the phylogenetic diversity of the family Secoviridae	Virus Genes	58	598-604	2022	1.9
108.	Sharma, SK; Vignesh, KP; Geetanjali, AS; Pun, KB; Baranwal, VK;	Subpopulation level variation of banana streak viruses in India and common evolution of banana and sugarcane badnaviruses	Virus Genes	50	450-465	2015	1.9
109.	Baranwal, VK; Sharma, SK; Khurana, D; Verma, R;	Sequence analysis of shorter than genome length episomal Banana streak OL virus like sequences isolated from banana in India	Virus genes	48	120-127	2014	1.9
110.	Singh, P; Prabha, K; Jain, RK; Baranwal, VK;	Ntoterminial in coat protein of Garlic virus X is indispensable for its serological detection	Virus genes	48	128-132	2014	1.9
111.	Pramesh, D; Baranwal, VK;	Molecular characterization of coat protein gene of Garlic common latent virus isolates from India: an evidence for distinct phylogeny and recombination	Virus Genes	47	189-193	2013	1.9
112.	Kumar, S; Baranwal, VK; Singh, P; Jain, RK; Sawant, SD; Singh, SK;	Characterization of a Grapevine leafrolltoassociated virus 3 from India showing incongruence in its phylogeny	Virus Genes	45	195-200	2012	1.9
113.	Singh, D; Tewari, AK; Rao, GP; Karuppaiah, R; Viswanathan, R; Arya, M; Baranwal, VK;	RTtoPCR/PCR analysis detected mixed infection of DNA and RNA viruses infecting sugarcane crops in different states of India	Sugar Tech	11	373-380	2009	1.8
114.	Khan, ZA; Thapa, P; Diksha, D; Mailem, YS; Sharma, SK; Nabi, SU; Wani, S; Shah, MD; Verma, MK; Gupta, N;	Virome analysis deciphered the infection of American plum line pattern virus, little cherry virus 1 and plum bark necrosis stem pittingtoassociated virus in plum from India	European Journal of Plant Pathology	171	341-357	2024	1.7
115.	Prajapati, MR; Manav, A; Singh, J; Singh, MK; Ranjan, K; Kumar, A; Kumar, P; Kumar, R; Baranwal, VK;	Identification of Garlic virus A infecting Allium sativum L. through next generation sequencing technology	The Journal of Horticultural Science and Biotechnology	97	96-105	2022	1.7
116.	Mitra, S; Debnath, P; Rai, R; Srivastava, N; Rao, GP; Baranwal, VK;	Identification of 'Ca. Phytoplasma asteris', banana bunchy top virus and banana streak MY virus associated with Champa and Sabri banana cultivars in Tripura, a North Eastern state of India	European Journal of Plant Pathology	163	907-922	2022	1.7
117.	Shreenath, YS; Saritha, RK; Basavaraj, YB; Pant, RP; Sagar, D; Arya, M; Baranwal, VK; Rao, GP;	Evidence for the association of mastrevirus, cucumovirus and phytoplasma with chickpea stunt disease and their putative insect vectors in India	European Journal of Plant Pathology	157	719-731	2020	1.7
118.	Pramesh, D; Baranwal, VK;	Production of virustofree garlic (Allium sativum L.) through meristem tip culture after solar or hot air treatment of cloves	The Journal of Horticultural Science and Biotechnology	90	180-186	2015	1.7
119.	Singh, RP; Dilworth, AD; Ao, X; Singh, M; Baranwal, VK;	Citrus exocortis viroid transmission through commerciallyto distributed seeds of Impatiens and Verbena plants	European journal of plant pathology	124	691-694	2009	1.7

120.	Angira, A; Baranwal, VK ; Ranjan, A; Choudhary, N;	Optimization of DACToELISA and ICtoRTtoPCR using the developed polyclonal antibody and onetostep RTtoPCR assays for detection of Indian citrus ringspot virus in kinnow orange of Punjab, India	Journal of Virological Methods	329	45901	2024	1.6
121.	Sidharthan, VK; Kalaivanan, NS; Baranwal, VK ;	Corrigendum to "Identification of two putative novel RNA viruses in the transcriptome datasets of small cardamom"[Plant Gene 27 (2021) 100305]	Plant Gene	30	45689	2022	1.6
122.	Sidharthan, VK; Kalaivanan, NS; Baranwal, VK ;	Identification of two putative novel RNA viruses in the transcriptome datasets of small cardamom	Plant Gene	27	45839	2021	1.6
123.	Sidharthan, VK; Sharma, SK; Baranwal, VK ;	The first nearcomplete genome sequence of large cardamom chirke virus mined from the transcriptome dataset of large cardamom	Plant Gene	28	45748	2021	1.6
124.	Meena, RP; Prabha, K; Baranwal, VK ;	Development of RTtoPCR degenerate primers for the detection of two mandariviruses infecting citrus cultivars in India	Journal of virological methods	275	45809	2020	1.6
125.	Srivastava, N; Kapoor, R; Kumar, R; Kumar, S; Saritha, RK; Kumar, S; Baranwal, VK ;	Rapid diagnosis of Cucumber mosaic virus in banana plants using a fluorescencebased realtime isothermal reverse transcriptiontorecombinase polymerase amplification assay	Journal of virological methods	270	52-58	2019	1.6
126.	Kumar, S; Singh, P; Rai, R; Baranwal, VK ;	Development of immunodiagnosics for the detection of Grapevine leafrolltoassociated virus 3 (GLRaVto3) in grapevine using in vitro expression and purification of its coat protein gene	Journal of Plant Biochemistry and Biotechnology	27	425-434	2018	1.6
127.	Sharma, P; Sharma, SK; Singh, J; Saha, S; Baranwal, VK	Incidence of Lettuce mosaic virus in lettuce and its detection by polyclonal antibodies produced against recombinant coat protein expressed in Escherichia coli	Journal of virological methods	230	53-58	2016	1.6
128.	Meena, RP; Baranwal, VK	Development of multiplex polymerase chain reaction assay for simultaneous detection of closteroto, badnatotoand mandaritoviruses along with huanglongbing bacterium in citrus trees	Journal of virological methods	235	58-64	2016	1.6
129.	Majumder, S; Baranwal, VK	Simultaneous detection of four garlic viruses by multiplex reverse transcription PCR and their distribution in Indian garlic accessions	Journal of virological methods	202	34-38	2014	1.6
130.	Sharma, SK; Kumar, PV; Baranwal, VK	Immunodiagnosis of episomal Banana streak MY virus using polyclonal antibodies to an expressed putative coat protein	Journal of virological methods	207	86-94	2014	1.6
131.	Baranwal, VK ; Gupta, KN; Singh, RP	Polymerase chain reaction detection of greening bacterium (Candidatus Liberibacter asiaticus) and Citrus mosaic virus in citrus tissues, by means of a simplified templatepreparation protocol	Canadian Journal of Plant Pathology	29	190-196	2007	1.6

132.	Gouda, KA; Baranwal, VK ; Ahlawat, YS	Simplified DNA extraction and improved PCR based detection of greening bacterium in citrus	Journal of plant biochemistry and biotechnology	15	117-121	2006	1.6
133.	Singh, RP; Baranwal, VK	Symptomless expression of Citrus exocortis viroid in ornamental plant species, Impatiens and Verbena, may be a potential threat to potato and tomato crops.	Canadian journal of plant pathology-revue canadienne de phytopathologie	28	364-364	2006	1.6
134.	Baranwal, VK ; Majumder, S; Ahlawat, YS; Singh, RP	Sodium sulphite yields improved DNA of higher stability for PCR detection of Citrus yellow mosaic virus from citrus leaves	Journal of virological methods	112	153-156	2003	1.6
135.	Sidharthan, VK; Sevanthi, AM; Venkadesan, S; Diksha, D; Baranwal, VK	Seasonal dynamics in leaf viromes of grapevines depicting leafroll syndrome under tropical condition	Tropical Plant Pathology	47	635-645	2022	1.5
136.	Rai, R; Sharma, SK; Kumar, PV; Baranwal, VK	Evidence of novel genetic variants of Grapevine rupestris stem pittingtoassociated virus and intratohost diversity in Indian grapevine cultivars	Tropical Plant Pathology	46	576-580	2021	1.5
137.	Meena, RP; Baranwal, VK	Genetic diversity of the coat protein gene and biological variation of citrus yellow vein clearing virus infecting different citrus species	Tropical Plant Pathology	45	467-475	2020	1.5
138.	Kumar, S; Rai, R; Baranwal, VK	Development of an immunocapture–reverse transcription–polymerase chain reaction (ICtoRTtoPCR) using modified viral RNA release protocol for the detection of grapevine leafrolltoassociated virus 3 (GLRaVto3)	Phytoparasitica	43	311-316	2015	1.5
139.	Rao, GP; Madhupriya; Tiwari, AK; Kumar, S; Baranwal, VK	Identification of sugarcane grassy shoottoassociated phytoplasma and one of its putative vectors in India	Phytoparasitica	42	349-354	2014	1.5
140.	Ghosh, A; Das, A; Pun, KB; Kumar, R; Meena, R; Baranwal, VK	Present status of Citrus tristeza virus infecting Citrus spp. in Darjeeling hills and its detection in different plant parts	Phytoparasitica	42	381-386	2014	1.5
141.	Ghosh, A; Das, A; Meena, R; Baranwal, VK	Evidence for resistance to Citrus tristeza virus in pomelo (Citrus maxima Merr.) grown in Darjeeling and Sikkim hills of India	Phytoparasitica	42	503-508	2014	1.5
142.	Ghosh, DK; Bhose, S; Mukherjee, K; Aglave, B; Warghane, AJ; Motghare, M; Baranwal, VK ; Dhar, AK	Molecular characterization of Citrus yellow mosaic badnavirus (CMBV) isolates revealed the presence of two distinct strains infecting citrus in India	Phytoparasitica	42	681-689	2014	1.5
143.	Ghosh, A; Das, A; Pun, KB; Kumar, R; Meena, R; Baranwal, VK	Present status of Citrus tristeza virus infecting Citrus spp. in Darjeeling hills and its detection in different plant parts.	Phytoparasitica	42	381-386	2014	1.5
144.	Ghosh, DK; Bhose, S; Mukherjee, K; Baranwal, VK	Sequence and evolutionary analysis of ribosomal DNA from Huanglongbing (HLB) isolates of Western India	Phytoparasitica	41	295-305	2013	1.5
145.	Prabha, K; Baranwal, VK	Indian citrus ringspot virus: localization of virus in seed tissues and evidence for lack of seed transmission	Phytoparasitica	39	491-496	2011	1.5

146.	Venkataravanappa, V; Reddy, LR; Hiremath, S; Muralidhara, BM; Vishweswarasastry, S; Baranwal, VK ; Manem, KR	First record of a novel begomovirus and satellites associated with leaf curl disease of passion fruit from India	Journal of Plant Protection Research		78-92	2022	1.3
147.	Ghosh, A; Das, A; Lepcha, R; Majumdar, K; Baranwal, VK	Identification and distribution of aphid vectors spreading Citrus tristeza virus in Darjeeling hills and Dooars of India	Journal of Asia-Pacific Entomology	18	601-605	2015	1.3
148.	Singhal, P; Prajapati, MR; Diksha, D; Baranwal, VK ; Singh, J	Genomic characterization of recombinant cucumber mosaic virus isolates infecting mustard species via HTS in India	Journal of Phytopathology	171	333-343	2023	1.1
149.	Sidharthan, VK; Baranwal, VK	Dwarf polish wheat hosts a novel closterovirus: Revelation by transcriptome data mining.	Acta Virologica	69	182-185	2022	1.1
150.	Prajapati, MR; Singh, J; Kumar, P; Baranwal, VK	Genome sequence of a papaya ringspot virus from khejri (Prosopis cineraria) transcriptome from India	Acta virologica	66	374-377	2022	1.1
151.	Singh, J; Truong, TN; An, D; Prajapati, MR; Manav, A; Quoc, NB; Ranjan, K; Kumar, A; Kumar, P; Kumar, R; Baranwal, VK	Complete genome sequence and genetic organization of a Garlic virus D infecting garlic (Allium sativum) from northern India	Acta Virologica	64	427-432	2020	1.1
152.	Pant, RP; Basavaraj, YB; Srivastava, N; Bhattarai, A; Kumar, A; Baranwal, VK ; Sailo, N; Barman, D	First report of Groundnut bud necrosis virus infecting Phalaenopsis in India	New Disease Reports	39	17-17	2019	1.1
153.	Kumar, PV; Sharma, SK; Rishi, N; Ghosh, DK; Baranwal, VK	An isothermal based recombinase polymerase amplification assay for rapid, sensitive and robust indexing of citrus yellow mosaic virus	Acta Virol	62	104-108	2018	1.1
154.	Rao, GP; Sharma, SK; Singh, D; Arya, M; Singh, P; Baranwal, VK	Genetically diverse variants of Sugarcane bacilliform virus infecting sugarcane in India and evidence of a novel recombinant Badnavirus variant	Journal of Phytopathology	162	779-787	2014	1.1
155.	Yadav, MK; Biswas, KK; Lal, SK; Baranwal, VK ; Jain, RK	A Distinct Strain of Cowpea mild mottle virus Infecting Soybean in India	Journal of Phytopathology	161	739-744	2013	1.1
156.	Singh, J; Rani, A; Kumar, P; Baranwal, VK ; Saroj, PL; Sirohi, A	First report of a 16SrIItoD phytoplasma 'Candidatus Phytoplasma australasia' associated with a tomato disease in India	New Disease Reports	26	2044-0588.2012	2012	1.1
157.	Mehdi, A; Baranwal, VK ; Kochu Babu, M; Praveena, D	Sequence Analysis of 16S rRNA and secA Genes Confirms the Association of 16SrI-B Subgroup Phytoplasma with Oil Palm (Elaeis guineensis Jacq.) Stunting Disease in India	Journal of Phytopathology	160	45997	2012	1.1
158.	Azadvar, M; Baranwal, VK ; Yadava, DK	First report of a 16SrIX (Pigeon pea witches' broom) phytoplasma associated with toria (Brassica rapa cv. toria) phyllody disease in India	New Disease Report	20	27	2009	1.1
159.	Vinay, ND; Yadav, RK; Talukdar, A; Baranwal, VK ; Sharma, BB; Lata, S; Das, A	Diverse RNA viruses in a parasitic flowering plant (spruce dwarf mistletoe) revealed through RNAseq data mining	Journal of General Plant Pathology	88	138-144	2022	1
160.	Singhal, P; Diksha, D; Srivastava, N; Baranwal, VK	Transmission and detection of toria [Brassica rapa L. subsp. dichotoma (Roxb.)] phyllody	Journal of General Plant Pathology	77	194-200	2011	1

		phytoplasma and identification of a potential vector					
161.	Kumar, A; Choudhary, S; Ramyashee, DGS; Baranwal, VK ; Jain, RK; Basavaraj, YB	First report of two distinct badnaviruses associated with Bougainvillea spectabilis in India	Journal of general plant pathology	76	236-239	2010	1
162.	Diksha, D; Sidharthan, VK; Singhal, P; Choudhary, N; Sharma, SK; Nabi, SU; Baranwal, VK	RTtoPCR detection and molecular characterization of Banana bract mosaic virus from the pseudostem and bract of banana	Archives of Phytopathology and Plant Protection	39	273-281	2006	1
163.	Kumar, A; Choudhary, S; Lyngdoh, YA; Baranwal, VK ; Jain, RK; Basavaraj, YB	Association of 'Candidatus Phytoplasma asteris' with phyllody of Crown Daisy in India	Australasian Plant Pathology	53	521-526	2024	0.9
164.	Parameswari, B; Bajar, B; Sivaraj, N; Mangrauthia, SK; Nagalakshmi, S; Baranwal, VK ; Holajjer, P; Srinivas, M; Anitha, K	Molecular characterization of 'Candidatus Phytoplasma asteris' subgroup IB associated with sesame phyllody disease and identification of its natural vector and weed reservoir in India	Australasian Plant Pathology	44	289-297	2015	0.9
165.	Khawale, RN; Singh, SK; Garg, G; Baranwal, VK ; Ajir, SA;	Agrobacteriumto mediated genetic transformation of Nagpur mandarin (Citrus reticulata Blanco)	Current Science	91	1700-1705	2006	0.9
166.	Kumar, PV; Srivastava, N; Rao, GP; Baranwal, VK ; Pun, KB; Sureja, AK; Pant, RP	Molecular characterization of 'Candidatus Phytoplasma asteris' subgroup IB associated with sesame phyllody disease and identification of its natural vector and weed reservoir in India	Australasian Plant Pathology: AAP	44	289-297	2015	0.9
167.	Kumar, A; Choudhary, S; Rout, BM; Sureja, AK; Baranwal, VK ; Jain, RK; Basavaraj, YB	Evidence of Association of Begomovirus with the Yellow Vein Disease of an Ornamental Plant Pot Marigold (Calendula officinalis) from Western Uttar Pradesh	Journal of Pure and Applied Microbiology	11	1609-1616	2017	0.6
168.	Sharma, SK; Ghosh, A; Gupta, N; Baranwal, VK ; Jangra, S; Thapa, P; Diksha, D; Singh, AK	Evidence of a Mixed Infection of Candidatus Phytoplasma Trifolii' and a Begomovirus in Eggplant (Solanum melongena)	Journal of Pure and Applied Microbiology	9	663-670	2015	0.6
169.	Kumar, R; Pant, RP; Kapoor, S; Khar, A; Baranwal, VK	Molecular detection and characterization of citrus yellow mosaic virus associated with acid lime (Citrus aurantifolia).	Journal of Pure and Applied Microbiology	9	1025-1032	2015	0.6
170.	Dubey, AK; Saritha, RK; Nabi, SU; Yadav, MK; Baranwal, VK	Studies on inheritance of yellow vein mosaic virus (YVMV) resistance in okra (Abelmoschus esculentus L.) cv. Pusa Bhindito5 and effect of YVMV disease on fruit nutritional quality	Indian Journal of Genetics and Plant Breeding	84	99-106	2024	
171.	Pant, RP; Basavaraj, YB; Srivastava, N; Bhattarai, A; Kumar, A; Baranwal, VK ; Sailo, N; Rampal; Barman, D	Development of an isothermal reverse transcriptasetorecombinase polymerase amplification assay for the rapid diagnosis of four viroids in different grape cultivars	Indian Phytopathology	77	511-519	2024	
172.	Kumar, A; Bhattarai, A; Rathore, AS; Jat, GS; Behera, TK; Renukadevi, P; Baranwal, VK ; Jain, RK; Basavaraj, YB	Molecular evidence for the occurrence of cucurbit yellow stunting disorder virus (CYSDV) infecting round melon and wild melon in India	VirusDisease	36	93-96	2024	
173.	Shweta, Singh, J; Kashyap, P; Kumar, P; Kumar, R; Panwar, AS; Baranwal, VK	Multigene sequence analysis reveals occurrence of genetic variability in Candidatus	Indian Phytopathology	76	261-272	2023	

		Liberibacter asiaticus associated with Huanglongbing of Western and NorthtoEastern India					
174.	Rashmi, ER; Pant, RP; Basavaraj, YB; Baranwal, VK ; Jain, R	Evidence for the natural infection of cucurbit chlorotic yellows virus (CCYV) in lettuce plants from India	VirusDisease	34	554-557	2023	
175.	Manav, A; Prajapati, MR; Singh, J; Kumar, A; Kumar, P; Pant, RP; Baranwal, VK	First record of Cactus virus X in Dragon Fruit (Hylocereus spp.) in India	Indian Phytopathology	75	297-299	2022	
176.	Sidharthan, VK; Nagendran, K; Baranwal, VK	New record of natural occurrence of carrot thin leaf virus (CTLV) on carrot (Daucus carota L.) from India	Indian Phytopathology	75	605-607	2022	
177.	Kumar, PVD; Rao, GP; Shreenath, SY; Baranwal, VK ; Sureja, AK; Pant, RP	Molecular evidence for the occurrence of Pumpkin yellows virus (PuYV), a new polerovirus species associated with pumpkin plants	VirusDisease	33	219-221	2022	
178.	Baranwal, VK ; Kapoor, R; Kumar, S; Srivastava, N	Evidence for association of southern rice blackto streaked dwarf virus with the recently emerged stunting disease of rice in NorthtoWest India	Indian Journal of Genetics and Plant Breeding	82	45778	2022	
179.	Pant, RP; Rashmi, ER; Manjunath, N; Baranwal, VK	Development of a reverse transcriptionto recombinase polymerase amplification (RTtoRPA) assay for the detection of onion yellow dwarf virus (OYDV) in onion cultivars	Indian Phytopathology	74	201-207	2021	
180.	Kumar, A; Jain, RK; Bhattarai, A; Rathore, AS; Watpade, SG; Parkash, C; Baranwal, VK ; Pant, RP; Kaur, B; Basavaraj, YB	Seed transmission and effect of leaf crinkle disease on seed quality in urdbean (Vigna mungo L. Hepper) under controlled environment	Indian Phytopathology	74	277-281	2021	
181.	Sharma, P; Singh, J; Kumar, P; Kumar, M; Kumar, R; Tiwari, AK; Baranwal, VK	Natural mixed infections on Phalaenopsis species by groundnut bud necrosis orthoto spovirus, cymbidium mosaic virus and odontoglossum ringspot virus in India	Indian Phytopathology	74	787-794	2021	
182.	Khanna, S; Rana, S; Singh, J; Goyal, M; Kumar, P; Singh, N; Pant, RP; Baranwal, VK	Association of cucurbit aphidto borne yellows virus with cucumber plants in India	VirusDisease	32	183-185	2021	
183.	Singhal, P; Kumar, S; Rai, R; Singh, SK; Baranwal, VK	Molecular identification of citrus greening bacterium associated with Kinnow Mandarin in Western Uttar Pradesh, India	Indian Phytopathology	74	1135-1141	2021	
184.	Kumar, S; Singh, S; Bal, SS; Swain, SC; Baranwal, VK	Detection of orchid viruses and molecular characterization of odontoglossum ringspot virus (ORSV) isolates	The Indian Journal of Agricultural Sciences	91	1168-1173	2021	
185.	Pant, RP; Kumar, R; Arora, A; Baranwal, VK	First report of natural infection by two potyviruses on amaryllis (Hippeastrum hybridum) plants from India	VirusDisease	32	830-833	2021	
186.	Kalita, MK; Rao, GP; Gogoi, AK; Nath, PD; Sarma, MK; Baranwal, VK	Exploration of plant transcriptomes reveals five putative novel poleroviruses and an enamovirus	Virus Genes	58	244-253	2021	
187.	Kumar, S; Rai, R; Baranwal, VK	'Candidatus Phytoplasma australasia' association with phyllody and purpling diseases of carrot in India	Phytopathogenic Mollicutes	11	131-139	2021	
188.	Kumar, S; Rao, GP; Jadon, VS; Baranwal, VK	Recent advances of virus diagnostics in horticultural crops	Applied Plant Virology		27-37	2020	

189.	Pant, RP; Kumar, R; Arora, A; Baranwal, VK	Status of orchid viruses in India and management strategies for them	Applied Plant Virology		725-745	2020	
190.	Kumar, A; Jain, RK; Bhattarai, A; Rathore, AS; Watpade, SG; Parkash, C; Baranwal, VK ; Pant, RP; Kaur, B; Basavaraj, YB	Occurrence of cucumber mosaic virus Subgroup I on different plant families in Himachal Pradesh and its infection to new hosts	Indian Phytopathology	73	759-766	2020	
191.	Sharma, P; Singh, J; Kumar, P; Kumar, M; Kumar, R; Tiwari, AK; Baranwal, VK	Emerging incidence and diversity analysis of sugarcane grassy shoot phytoplasma in Western Uttar Pradesh, India	Phytopathogenic Mollicutes	10	194-202	2020	
192.	Khanna, S; Rana, S; Singh, J; Goyal, M; Kumar, P; Singh, N; Pant, RP; Baranwal, VK	First report of association of begomovirus in yellow mosaic disease of bur cucumber in India	Indian Phytopathology	72	181-184	2019	
193.	Singhal, P; Kumar, S; Rai, R; Singh, SK; Baranwal, VK	Characterization of viroids infecting grapevine in India	Indian Phytopathology	72	333-341	2019	
194.	Pant, RP; Kumar, R; Arora, A; Baranwal, VK	Detection of Mandarivirus and greening bacterium using electron microscopy, PCR and RT-PCR in Kinnow mandarin nurseries in Punjab	Indian J. Agric. Sci	88	86-90	2018	
195.	Kalita, MK; Rao, GP; Gogoi, AK; Nath, PD; Sarma, M; Baranwal, VK	Sesame phyllody disease to a potential emerging threat to sesame cultivation in the north east region of India	Phytopathogenic Mollicutes	8	46-56	2018	
196.	Kumar, S; Rai, R; Baranwal, VK	Diversity, Host-Pathogen Interactions, and Management of Grapevine Leafroll Disease	Plant Viruses		333-346	2018	
197.	Kumar, S; Rao, GP; Jadon, VS; Baranwal, VK	Genetic diversity of phytoplasmas associated with sugarcane grassy shoot and leaf yellows diseases in India	Phytopathogenic Mollicutes	8	74-88	2018	
198.	Pant, RP; Kumar, R; Arora, A; Baranwal, VK	3 ICAR	The Indian Journal of Agricultural Sciences	88	86-90	2018	
199.	Gupta, N; Jain, RK; Rao, GP; Baranwal, VK	Molecular characterization and phylogenetic analysis of coat protein gene of Leek yellow stripe virus infecting garlic in India	Indian Phytopathology	70	114-121	2017	
200.	Kumar, R; Yadav, RK; Bhardwaj, R; Baranwal, VK ; Chaudhary, H; Vinod, V	Assessment of genetic diversity among okra (Abelmoschus esculentus) genotypes for quality traits	The Indian Journal of Agricultural Sciences	86	785-91	2016	
201.	Saritha, RK; Jain, P; Baranwal, VK ; Jain, RK; Srivastava, A; Kalia, P	First record of Pepper cryptic virus 2 in chilli (Capsicum annuum) in India	Virus Disease	27	327-328	2016	
202.	Kumar, R; Yadav, RK; Bhardwaj, R; Baranwal, VK ; Chaudhary, H	Studies on genetic variability of nutritional traits among YVMV tolerant okra germplasm	Indian Journal of Horticulture	73	202-207	2016	
203.	Nabi, S; Dubey, MD; Rao, GP; Baranwal, VK ; Sharma, P	Characterization of phytoplasmas associated with sesame (Sesamum indicum) phyllody disease in North India utilizing multilocus genes and RFLP analysis	Indian Phytopathology	68	112-119	2015	
204.	Singh, J; Singh, A; Kumar, P; Rani, A; Baranwal, VK ; Sirohi, A	First report of mixed infection of phytoplasmas and begomoviruses in eggplant in India	Phytopathogenic Mollicutes	5	S97-S98	2015	
205.	Singh, J; Rani, A; Kumar, P; Baranwal, VK ; Saroj, PL; Sirohi, A; Pandey, AN; Schenk, PM	New host record of a 'Candidatus Phytoplasma asteris' related strain infecting peach in India	Australasian Plant Disease Notes	9	45748	2014	

206.	Prabha, K; Baranwal, VK ; Jain, RK	Applications of next generation high throughput sequencing technologies in characterization, discovery and molecular interaction of plant viruses	Indian Journal of Virology	24	157-165	2013	
207.	Singh, J; Singh, A; Kumar, P; Rani, A; Baranwal, VK ; Sirohi, A; Bhatnagar, SK; Singh, D	Evidence of association of a tomato leaf curl New Delhi virus with chilli leaf curl disease in western Uttar Pradesh, India	Vegetos	26	203-211	2013	
208.	Azadvar, M; Baranwal, VK	Multilocus sequence analysis of phyto to plasma associated with brinjal little leaf disease and its detection in Hishimonus phycitis in India	Phytopathogenic Mollicutes	2	15-21	2012	
209.	Gupta, KN; Baranwal, VK ; Haq, QMR	Sequence analysis and comparison of 16S rRNA, 23S rRNA and 16S/23S intergenic spacer region of greening bacterium associated with yellowing disease (huanglongbing) of Kinnow mandarin	Indian journal of microbiology	52	13-21	2012	
210.	Majumder, S; Baranwal, VK	Sequence comparison and phylogeny of nucleotide sequence of coat protein and nucleic acid binding protein of a distinct isolate of shallot virus X from India	Indian Journal of Virology	22	63-65	2011	
211.	Kumar, S; Baranwal, VK ; Joshi, S; Arya, M; Majumder, S	Simultaneous detection of mixed infection of Onion yellow dwarf virus and an Allexivirus in RT to PCR for ensuring virus free onion bulbs	Indian Journal of Virology	21	64-68	2010	
212.	Azadvar, M; Baranwal, VK	Molecular characterization and phylogeny of a phyto to plasma associated with phyllody disease of toria (Brassica rapa L. subsp. dichotoma (Roxb.)) in India	Indian Journal of Virology	21	133-139	2010	
213.	Arya, M; Majumder, S; Baranwal, VK	Partial characterization of coat protein gene of Shallot latent virus associated with garlic in India.	Indian Journal of Virology	20	45970	2009	
214.	Majumder, S; Baranwal, VK ; Unit, PV	Sto 13. Multiplex to PCR detection of Poty to , Carl to and Allexiviruses in allium crops of India	Indian Journal of Virology	20		2009	
215.	Singh, SK; Banerjee, T; Baranwal, VK	Mapping of pests distribution in India: a case study	Journal of Entomological Research	33	223-225	2009	
216.	Ghosh, DK; Aglave, B; Baranwal, VK	Simultaneous detection of one RNA and one DNA virus from naturally infected citrus plants using duplex PCR technique.	Current Science	94	1314-1318	2008	
217.	Gupta, KN; Priya, B; Arya, M; Pant, RP; Gopal, K; Baranwal, VK	Pto 104. Simultaneous detection of citrus mosaic virus and Indian citrus ring spot virus by duplex polymerase chain reaction	Indian Journal of Virology	19	0970-2822	2008	
218.	Penchalaiah, Y; Gopi, V; Gopal, K; Baranwal, VK	Detection of citrus ring spot virus and citrus yellow vein clearing virus in sweet orange by D ACto ELISA	Annals of Plant Protection Sciences	16	153-155	2008	
219.	Singh, RP; Baranwal, VK	Potential threat to tomato and potatocrops by the emergence of seed to borne Citrus exocortis viroid found in ornamental plant species, Impatiens and Verbena	Indian Journal of Virology	19	72-72	2008	

220.	Gupta, KN; Haq, QMR; Baranwal, VK	Distribution of Citrus mosaic virus in different tissue of infected citrus plant	Indian Journal of Virology	19	135-135	2008	
221.	Gopal, K; Pradeepthi, E; Gopi, V; Ahammed, KS; Sreenivasulu, Y; Reddy, M; Baranwal, V; Purushotham, K	Occurrence, molecular diagnosis and suitable time of detection of citrus greening disease in sweet orange	Acta Phytopathologica et Entomologica Hungarica	42	49-58	2007	
222.	Ghosh, DK; Aglave, B; Bhanare, K; Baranwal, VK	PCR based detection of Citrus yellow mosaic disease from Vidarbha region of Maharashtra	Indian Phytopathology	60	520-526	2007	
223.	Arya, M; Baranwal, VK ; Ahlawat, YS; Singh, L	RT-PCR detection and molecular characterization of Onion yellow dwarf virus associated with garlic and onion	Current Science	91	1230-1234	2006	
224.	Verma, R; Baranwal, VK ; Prakash, S; Singh, J; Pant, RP; Ahlawat, YS	Biological and molecular characterization of Zucchini yellow mosaic virus from naturally infected bottle gourd.	Indian Journal of Virology	17	96-101	2006	
225.	Baranwal, VK ; Majumder, S; Ahlawat, YS; Singh, RP	A novel approach for simultaneous detection of citrus yellow mosaic virus and citrus greening bacterium by multiplex polymerase chain reaction	Indian Journal of Biotechnology	4	528-533	2005	
226.	Baranwal, VK ; Singh, J; Ahlawat, YS; Gopal, K; Charaya, MU	Citrus yellow mosaic virus is associated with mosaic disease in Rangpur lime rootstock of citrus	Current Science	89	1596-1599	2005	
227.	Cherian, AK; Baranwal, VK ; Malathi, VG; Pant, RP; Ahlawat, YS	Banana streak virus from India and its detection by polymerase chain reaction	Indian Journal of Biotechnology	3	409-413	2004	
228.	Baranwal, VK ; Mazumder, S; Singh, J; Suryanarayana, V; Ghosh, DK; Ahlawat, YS	PCR detection of Candidatus Liberibacter asiaticus, the agent of Huanglongbin or greening disease in citrus	Indian Phytopathology	57	164-168	2004	
229.	Baranwal, VK ; Tumer, NE; Kapoor, HC	Depurination of ribosomal RNA and inhibition of viral RNA translation by an antiviral protein of Celosia cristata	Indian journal of experimental biology	40	1195-1197	2002	
230.	Baranwal, VK ; Ahmad, N	Effect of Clerodendrum aculeatum leaf extract on tomato leaf curl virus	Indian Phytopathology	50	297-299	1997	
231.	Baranwal, VK ; Verma, HN	Virus inhibitory activity of leaf extracts from different taxonomic groups of higher plants	Indian Phytopathology	46	402-403	1993	
232.	Reddy, VM; Baranwal, VK ; Singh, RK	Areca nut (Areca catechu L.) based high density multispecies cropping system in West Bengal	Journal of Plantation Crops	21	15-15	1993	
233.	Rethinam, P; Roy, AK; Baranwal, VK ; Borthy, BKC; Nambiar, KKN	Crown choke disease of coconut.	Indian Coconut Journal (Cochin)	20	45811	1990	

12. Books/ Chapters:

Books

S.No	Title	Author's Name	Publisher	Year of Publication
1.	<i>Indian Agriculture by 2047: A Roadmap for Research Education and Extension</i>	Pathak, H; Joshi, PK; Lakra, WS; Singh, AK; Baranwal, VK ; Jain, RK (Editors)	National Academy of Agricultural Sciences	2025
2.	<i>A Century of Plant Virology in India</i>	Mandal, B; Rao, GP; Baranwal, VK ; Jain, RK	Springer	2017
3.	<i>Training Manual: Genomics of Plant Virus for Diagnosis and Utilization as Gene Expression Tool</i>	Mandal, B; Roy, A; Rao, GP; Baranwal, VK	IARI, New Delhi	2014
4.	<i>A Practical Manual of Plant Virology</i>	Mandal, B; Roy, A; Baranwal, VK	IARI, New Delhi	2014
5.	<i>Recent Trends in Plant Virology</i>	Rao, GP; Baranwal, VK ; Mandal, B; Narayan, R	Studium Press, USA	2012
6.	<i>IPM System in Agriculture Vol.10 – Virus and Virus like Diseases of Plants</i>	Upadhyay, RK; Ahlawat, YS; Dubey, OP; Baranwal, VK ; Srivastava, KP	Aditya Books Pvt. Ltd., New Delhi	2010

Chapters

7.	Next-Generation Sequencing Approaches: Detection of Plant Pathogens with a Special Focus on Exploring Plant Virome (Book Chapter in <i>Detection of Plant Pathogens with a Special Focus on Exploring Plant Virome</i>)	Naorem, L.M.; Bhardwaj, P.; Thapa, P.; Srivastava, N.; Diksha, D.; Mailem, Y.S.; Gupta, N.; Nabi, S.U.; Baranwal, V.K. ; Sharma, S.K.	CRC Press	2025
8.	Applications of Robust Isothermal Amplification Assays in the Detection of Fungal and Viral Plant Pathogens (Book Chapter in <i>Detection of Plant Pathogens with a Special Focus on Exploring Plant Virome</i>)	Shimray, M.Y.; Kumar, A.; Chauhan, U.S.; Bhardwaj, P.; Srivastava, N.; Kumar, R.; Sharma, S.K.; Baranwal, V.K. ; Joshi, D.; Gupta, N.	CRC Press	2025
9.	Viral diseases of root and tuber crops: Research progress and future perspectives (Book Chapter in <i>Sustainable Production of Root and Tuber Crops</i>)	Bhardwaj, P.; Kumar, R.; Prajapati, M.R.; Srivastava, N.; Gupta, N.; Baranwal, V.K. ; Sharma, S.K.	Routledge	2025
10.	Public Domain Databases: A Gold Mine for Identification and Genome Reconstruction of Plant Viruses and Viroids (Book Chapter in <i>Genomics Data Analysis for Crop Improvement</i>)	Sidharthan, V.K.; Baranwal, V.K.	Springer	2024
11.	Genomic properties of potyviruses and their adaptation to hosts Book (Chapter in <i>Plant RNA Viruses Molecular Pathogenesis and Management</i>)	Rai, R.; Khurana, S.M.P.; Sharma, S.K.; Baranwal, V.K.	Academic Press	2023
12.	Molecular Characterization and Diversity Analysis of Viruses Infecting Orchids Plants: Global Scenario (Chapter in <i>Virus Diseases of Ornamental Plants Characterization, Identification, Diagnosis and Management</i>)	Prajapati, M.R.; Singh, J.; Ranjan, K.; Pant, R.P.; Baranwal, V.K.	Springer	2021
13.	Plant Virus Diagnostics: Traditional to Recent and Emerging Advances (Chapter in <i>Emerging Trends in Plant Pathology</i>)	Baranwal, V.K. ; Nabi, S.U.; Yadav, M.K.	Springer	2021
14.	Recent advances of virus diagnostics in horticultural crops (Chapter in <i>Applied Plant Virology Advances, Detection, and</i>	Baranwal, V.K. ; Kapoor, R.; Kumar, S.; Srivastava, N.	Academic Press	2020

	Antiviral Strategies)			
15.	Diversity, Host-Pathogen Interactions, and Management of Grapevine Leafroll Disease	Kumar, S.; Rai, R.; Baranwal, V.K.	CRC Press	2018
16.	Mandarivirus and Allexivirus in India	Prabha, K.; Baranwal, V.K.		2017
17.	Nucleic-Acid Based Techniques for the Fine Diagnosis of Plant Viruses in India (In A Century of Plant Virology in India)	Sharma, S.K.; Meena, R.P.; Pramesh, D.; Kumar, S.; Singh, S.Th.; Baranwal, V.K.	Springer	2017
18.	Emergence and Diversity of Badnaviruses in India (In A Century of Plant Virology in India)	Baranwal, V.K. ; Sharma, S.K.	Springer	2017
19.	Ampelo viruses Associated with Grapevine Leafroll Disease: A new group of Viruses in India (In A Century of Plant Virology in India)	Kumar, S.; Rai, R.; Baranwal, V.K.	Springer	2017
20.	A Century of Plant Virology in India	Mandal, B.; Rao, G.P.; Baranwal, V.K. ; Jain, R.K.	Springer	2017
21.	Interactions Among Host and Plant Pararetroviruses: An Ever-Evolving Evolutionary Dogma (In Plant Viruses, Evolution and Management)	Sharma, S.K.; Baranwal, V.K. ; Roy, S.S.; Kumar, P.V.; Prakash, N.	Springer	2016
22.	Plant Virology: Advances in Plant Virology and Molecular Biotechnology (In Biotechnology - Progress and Prospects)	Baranwal, V.K. ; Sharma, S.K.; Singh, H.	Studium Press LLC, Texas, US	2015
23.	Virus Diagnostics: Paradigm shift in 21st century for ensuring plant health and higher productivity of horticultural crops (In Horticulture for Inclusive Growth)	Khurana, S.M.P.; Sharma, S.K.; Baranwal, V.K.	Westville Publishing House	2014
24.	Potency of Plant Products in Control of Virus Diseases of Plants (In Natural Products in Plant Pest Management)	Verma, H.N.; Baranwal, V.K.	CABI, UK	2011
25.	Molecular diagnostics for detection of virus and virus like pathogens in citrus (In Techniques in Diagnosis of Plant Viruses)	Baranwal, V.K. ; Ahlawat, Y.S.	Studium Press, USA	2007
26.	Antiviral substances of plant origin (In Plant Virus Disease Control)	Verma, H.N.; Baranwal, V.K. ; Srivastava, S.	APS Press, USA	1998
27.	Agricultural role of endogenous antiviral substances of plant origin (<i>In Antiviral Proteins in Higher Plants</i>)	Verma, H.N.; Baranwal, V.K.	CRC Press, USA	1995
28.	Endogenous virus inhibitors from plants, their physical and biological properties (<i>In Antiviral Proteins in Higher Plants</i>)	Verma, H.N.; Baranwal, V.K.	CRC Press, USA	1995

13. Any other Information (maximum 500 words)

Research Leadership:

World Bank Funded Projects:

- ICAR NAIP: Diversity of citrus yellow mosaic badnavirus as a genetic engineering tool, 2004-07 (**Rs. 12 Lakh**) (*Formulation & Implementation*) (P.I.)
- NATP component IV: Novel Strategies for molecular diagnosis of plant viruses.. 2008-14 (**Rs. 2.5 crore**) (*Formulation & Implementation*) (Co-P.I.)

National Funded Projects (As Principal Investigator/ Coordinator):

- ICAR- AINP-Emerging Pests 2025-Till date (**Rs. 12.8 crore**) (*As Coordinator of Ten centers*)
- ICAR-National Professorial Chair-Virome analysis of perennial fruit crops..... 2022-2025 (**Rs. 3.06 crore**) (*Formulation & Implementation*)
- ICAR- National Agriculture Science Fund, Population diversity of banana streak virus ... 2017- 21 (**Rs. 40.24 lakh**) (*Formulation & Implementation*) (*Collaborative: NEHRC, Imphal & Mizoram University*)
- DBT- Molecular diagnostics, transcriptomics and cisgenic approaches to combat citrus greening. 2017- 20 (**Rs.30.47 lakh**) (*Formulation & Implementation*) (*Collaborative: NEHRC, Imphal & AAU, Jorhat*)
- DBT-Referral centre for virus indexing, 2015- Till date (**Rs. 1.64 crore**) (*Formulation, Implementation, Monitoring & Affiliated Authority*)
- BIRAC-Validation of serological diagnostic reagents and kits ... affecting horticultural crops, 2013-17 (**Rs. 2.22 crore**) (*Formulation & Implementation*) (*Collaborative: Industry Partner*)
- ICAR Outreach: Diagnosis and management strategies for virus and virus like diseases of crop, 2010- 20 (**Rs. 9.3 crore**) (*Formulation & Implementation*)
- ICAR-Platform: Development of diagnostics to virus, viroid and phytoplasmas of fruits, 2015-17 (**Rs 41.75 Lakh**) (*Formulation & Implementation*)
- ICAR network: Transgenic banana 2005-13 (**Rs 35.17 Lakh**) (*Formulation & Implementation*)
- DBT-Development of diagnostic kit for detection of citrus viruses, viroids and greening bacterium. 2005-10 (**Rs. 48.86 Lakh**) (*Formulation & Implementation*)
- SIBRI: Production of virus free garlic through tissue culture, 2009-12 (**40 Lakh**) (*Formulation & Implementation*)
- ICAR-NASF: Population diversity of banana streak viruses (BSV) and understanding..... 2017-19 (**65 Lakh**) (*Formulation & Implementation*)

Technology/Concept/Contribution/Other Attributes:

- Established a school of metagenomics for virus population study in different crops in India.
- A microarray chip for the parallel detection of more than 1100 plant viruses and all viroids
- Resistant varieties of okra against Bhendi yellow vein mosaic virus,
- Identification of resistant sources against cowpea mild mosaic virus in soybean
- ELISA kits and reagents using recombinant coat protein of 15 viruses
- Pioneering work on novel rapid isothermal recombinase polymerase-based assays (RPA) for viruses, bacteria and thrips highly useful for field application
- Identification of promoters & development of infectious clone of a banana streak Mysore virus
- Production of virus free garlic through apical meristem culture and novel solar heat therapy
- As Virology In-charge developed state of art facilities of Confocal Microscope, Microarray System. Electron Microscope, ultramicrotomy and Environment Controlled Containment Facility
- Played a key role in production of > 600 million of tissue cultured banana plantlets under NCS-TCP in the country
- Organising Secretary for two International Conferences of Indian Virological Society, 2008 & 2020

Academic Achievements & Recognition:

- Guided 14 Ph.D. & 4 M.Sc. students at IARI. **Students won Best Student/Gold Medal/Jawahar Lal Nehru Awards for best thesis. (All Ph.D. students in regular position of research/academic system)**
- Academic administration for post graduate students in Division of Plant Pathology (6 years)
- Chairman, Board of Studies (5 years); Member, Academic Council (5 years), Standing Committee (2 years), Member Academic Council (6 years)
- Coordinator, Masters of Science, Plant Prot. Afghanistan National Agri. Sci. and Tech. Univ. 2019-21
- **Course Director** of 4 Trainings; Coordinator of 4 National Advance Faculty Trainings under ICAR
- Nodal officer, ICAR UG, PG and SRF examination for Delhi Centre 2016
- Delivered keynote / lead lectures in 13 International and 25 National Conferences in last 10 years
- **Study visits** to University of Queensland, Brisbane, 2012
- **Delivered invited talk abroad:** 2010: Seminar Series, CREC, Univ. of Florida, USA; 2016: International Citrus Congress Brazil; 2018: Regional Conference on Role of Soil and Plant Health. Asia-Pacific Thailand; 2025. 3rd International Conference of World Society of Virology, Malaysia.
- Editor, J Virological Methods (Elsevier), J Pl Biochem & Biotech (Springer), NAAS, Delhi
- On accreditation panel and served as Chairman, NAAC peer team

Policy/Project Monitoring/Scientific Committee Member:

- Expert Member, Project Monitoring, Policy making and Evaluation Committee, National System for Tissue Cultured Raised Plants (NCS-TCP), DBT, Govt. of India. *(Since 2010)*
- Member, Technical Audit Committee (NCS-TCP), Department of Biotechnology, Govt. of India. *(Since 2010)*
- Member, Institute Management Committee, Directorate of Mushroom Research, Solan (H.P.) *(2012- 2015)*
- Member, Research Advisory Committee, ICAR-Directorate of Onion and Garlic Research, Pune *(2017 -2020)*
- Member, Quinquennial review committees of ICAR research institutes
- Chairman, Animal Ethics Committee, ICAR-IARI (A Deemed to be University), New Delhi *(2012- 2015)*
- Convened a Panel Discussion under the aegis of NAAS (National Academy of Agricultural Sciences) and published policy paper on 'Certification of Quality Planting Material of Clonally Propagated Fruit Crops for Promoting Agricultural Diversification' *(September 20, 2021; Policy paper published on May 2022)*
[Ref: <https://naas.org.in/Policy%20Papers/policy%20107.pdf>]
- Convened an Experts Consultation on "Clean Plant Programme" under NAAS *(April 3, 2023)*
[Ref: <https://naas.org.in/News/NN23022023.pdf>]
- Extensive experience in virome analysis, modern virus diagnostics and virus elimination techniques in different crops including clonally propagated fruit crops [High impact factor publications in peer-reviewed journal of high repute: <https://scholar.google.co.in/citations?user=64PNc2MAAAA&hl=en>]
- Member of several national committees related to research grant and plant certification

(V. K. Baranwal)