



## List of keywords used for literature mining

SCIP-database is developed using available literature information. To retrieve all available articles under combined stress and to have >90% literature coverage different kind of keywords have been used along with different type of search engines. Bibliography from each articles have also searched to make sure that no articles are left out.

The list of search engines used for literature mining were listed as below,

1. Google- <https://www.google.com/>
2. NCBI PubMed- <https://www.ncbi.nlm.nih.gov/>
3. Searchit-  
[http://searchit.libraries.wsu.edu/primo\\_library/libweb/action/search.do?vid=WSU&dsent=0&dstmp=1470197360669&fromLogin=true](http://searchit.libraries.wsu.edu/primo_library/libweb/action/search.do?vid=WSU&dsent=0&dstmp=1470197360669&fromLogin=true)
4. Jstor- <http://www.jstor.org/>
5. Webofknowledge-  
[http://apps.webofknowledge.com/WOS\\_GeneralSearch\\_input.do?product=WOS&search\\_mode=GeneralSearch&SID=Q25r3nQ9RdXUq7DPaGm&preferencesSave\\_d=](http://apps.webofknowledge.com/WOS_GeneralSearch_input.do?product=WOS&search_mode=GeneralSearch&SID=Q25r3nQ9RdXUq7DPaGm&preferencesSave_d=)
6. Google scholar- <https://scholar.google.co.in/>
7. Sci-hub- <https://sci-hub.tw/>
8. Krishikosh (for agriculture related thesis)- <http://krishikosh.egranth.ac.in/>
9. Shodhganga (for non-agriculture related thesis)- <http://shodhganga.inflibnet.ac.in/>
10. Consortium of e-resource in agriculture (CERA)-  
<http://cera.iari.res.in/index.php/en/>
11. CABI- <https://www.cabi.org/>

The list of keywords used to retrieve articles of each stress combination are listed as below,

Sl. No.	Stress combination	Keywords
1	Drought & virus	Drought and virus stress, drought and virus stress plants, combined drought and viral stress plants, effect of drought on virus infection, effect of virus infection on drought stress, drought and virus, effect of combined moisture stress and virus infection plants, effect of moisture stress on virus induced disease, drought acclimation effect on virus induced disease, effect of drought on plants pre-exposed to virus
2	Drought & heat	Combined drought and heat stress on plants, effect of moisture stress and heat stress plants, combined drought and high



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		temperature stress on plants, effect of drought with high temperature on plants, combined drought and high temperature on growth and yield, effect of drought and high temperature on plant physiology, genotype variation of combined drought and high temperature stress.
3	Virus & high/low temperature	Combined high/low temperature and virus stress plants, effect of high temperature on virus multiplication plants, effect of low temperature on virus multiplication plants, effect of high/low temperature on virus infection plants, virus-induced resistance against high/low temperature plants, high temperature induced resistance against virus infection plants
4	High/low temperature & weed	Temperature and weed stress, high temperature weed growth, low temperature weed growth, combined temperature and weed stress, weeds and climate change, effect of temperature on weeds, crop and weed and temperature stress
5	Drought & bacteria	Drought and bacterial pathogen plants, combined drought and bacteria stress, drought and bacterial-pathogen interaction plants, moisture stress and bacterial-pathogen plants, dehydration and plant bacterial-pathogen stress, effect of drought on bacterial multiplication
6	Bacteria & fungus	Effect of bacterial pathogen on fungal pathogen in plants, Effect of fungal pathogen on bacterial pathogen in plants, Effect of prior exposure to bacterial pathogen on fungal induced diseases in plants, Effect of prior exposure to fungal pathogen on bacterial induced diseases in plants, Combined effect of bacterial and fungal pathogen on plants.
7	Shade/competition & ozone	Plant competition, interactive effect of plant competition and ozone, Effect of ozone on



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		plant density, Effect of ozone on plant competition
8	Drought & high light	Combined drought and high light stress, combination of water and high light stress, effect of water deficit and high light stress, effect of water deficit and high irradiance on plants.
9	Drought & wound	Combined drought and wound stress in plants, effect of mechanical wounding on drought stress, effect of drought on mechanical wounding of plants, interaction between drought and mechanical wounding.
10	Drought & cold/freezing	Combined drought and freezing stress in plants, water deficit and chilling, simultaneous drought and freezing stress, combined cold and osmotic stress.
11	Flooding/waterlogging/submergence/anoxia & bacteria	Flooding/submergence/waterlogging/anoxia and bacteria combined stress in plants, Combined effect of Flooding/submergence/waterlogging/anoxia and bacteria stress in plants, Interactive effect of Flooding/submergence/waterlogging/anoxia and bacteria stress in plants
12	Flooding/waterlogging/submergence/anoxia & high light	Flooding/submergence/waterlogging/anoxia and high light combined stress in plants, Combined effect of Flooding/submergence/waterlogging/anoxia and light stress in plants, Interactive effect of Flooding/submergence/waterlogging/anoxia and light stress in plants
13	Flooding/waterlogging/submergence/anoxia & high temperature	Flooding/submergence/waterlogging/anoxia and heat combined stress in plants, Combined effect of Flooding/submergence/waterlogging/anoxia and heat stress in plants, Interactive effect of Flooding and heat stress in plants, interactive effect of waterlogging and temperature stress in plants, interactive effect of submergence and temperature stress in plants, interactive effect of anoxia and temperature stress in plants.
14	Flooding/waterlogging/submergence/anoxia & insects	Flooding/submergence/waterlogging/anoxia and insect combined stress in plants, Combined effect of



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		<p>Flooding/submergence/waterlogging/anoxia and insect stress in plants, Interactive effect of</p> <p>Flooding/submergence/waterlogging/anoxia and insect stress in plants, Combined effect of water regimes and insect stress in plants, Combined effect of water regimes and insect herbivory in plants, Synergistic effect of</p> <p>Flooding/submergence/waterlogging/anoxia and insect combined stress in plants</p>
15	Flooding/waterlogging/submergence/anoxia & low temperature	<p>Flooding/submergence/waterlogging/anoxia and cold combined stress in plants, Combined effect of</p> <p>Flooding/submergence/waterlogging/anoxia and cold stress in plants, Interactive effect of Flooding and cold stress in plants, interactive effect of waterlogging and temperature stress in plants, interactive effect of submergence and temperature stress in plants, interactive effect of anoxia and temperature stress in plants</p>
16	Flooding/waterlogging/submergence/anoxia & ozone	<p>Flooding/submergence/waterlogging/anoxia and Ozone combined stress in plants, Combined effect of</p> <p>Flooding/submergence/waterlogging/anoxia and Ozone stress in plants, Interactive effect of</p> <p>Flooding/submergence/waterlogging/anoxia and Ozone stress in plants</p>
17	Flooding/waterlogging/submergence/anoxia & UV	<p>Flooding/submergence/waterlogging/anoxia and UV combined stress in plants, Combined effect of</p> <p>Flooding/submergence/waterlogging/anoxia and UV stress in plants, Interactive effect of Flooding/submergence/waterlogging/anoxia and UV stress in plants</p>
18	Flooding/waterlogging/submergence/anoxia & virus	<p>Flooding/submergence/waterlogging/anoxia and virus combined stress in plants, Combined effect of</p> <p>Flooding/submergence/waterlogging/anoxia and virus stress in plants, Interactive effect of</p> <p>Flooding/submergence/waterlogging/anoxia and virus stress in plants, Combined effect of water regimes and virus stress in plants</p>



19	Flooding/waterlogging/submergence/anoxia & weeds	Flooding/submergence/waterlogging/anoxia and plant weed competition stress in plants, Combined effect of Flooding/submergence/waterlogging/anoxia and weed interference in plants, Interactive effect of Flooding/submergence/waterlogging/anoxia and weed interference in plants, Combined effect of water regimes and weed interference in plants
20	Fungus & flooding/waterlogging/submergence/anoxia	Flooding/submergence/waterlogging/anoxia and fungus combined stress in plants, Combined effect of Flooding/submergence/waterlogging/anoxia and fungus stress in plants, Interactive effect of Flooding/submergence/waterlogging/anoxia and fungus stress in plants
21	Fungus & high/low light	Combined high light and fungus stress in plants, combined low light and fungus stress in plants, effect of high light intensity on fungus disease incidence in plants, effect of high light intensity on fungus multiplication in plants, interaction between high light and fungus stress in plants, effect of low light intensity on fungus disease incidence in plants, effect of low light intensity on fungus multiplication in plants, interaction between low light and fungus stress in plants.
22	Fungus & fungus	Combination of different plant fungal pathogens, various plant fungal pathogen stress over plants/crops, biotic stress over rice/barley/maize etc., influence of combined biotic-biotic stress over crops/plants, Multiple fungal diseases/stress over crop, effect of different fungal pathogen on crop/trees etc., synergism of plant pathogenic fungus, antagonism of plant pathogenic fungus, effect of a fungal pathogen on another fungal pathogen, Various plant pathogenic fungus names, and the disease caused by fungus in different combinations along with the crop name combination were used for searching articles. Cross referencing was also done.
23	Fungus & insects	Fungus-insect interaction, Crop loss caused by fungus-insect interaction, Competition



		<p>between insect and fungus, combined biotic stress over crops/plants, Influence of combined biotic-biotic stress over crops/plants, effect of different fungal pathogen and insect on crop/trees etc., Synergism among insect and fungus, Antagonism among insect and fungus, Effect of a fungal pathogen on insect and vice-versa, insect feeding on fungus. Fungus and insect causing damage to crop/plants, insect as vector carrying fungal diseases on plants/crop.</p>
24	Fungus & mites	<p>Fungus-mites interaction, antagonist, fungal biota, fungivore, mutualist, phoretic mite, fungus transmission, vector, mite, vector, mutualism, Arthropod, Phytopathogenic fungi, Pest interaction, Beans, Apple, yield reduction due to fungus and mites interaction, Alternaria mali, blotch, cotton, completion, spider mites, Verticillium dahliae, Tetranychus urtica</p>
25	Fungus & oomycetes	<p>Fungus-oomycete interaction, Phaseolus vulgaris, bean, root rot, Pythium, Fusarium, interaction, Arachis hypogaea synergism, peanut, pod-rot, Pythium myriotylum interaction, Pythium myriotylum, Fusarium solani, Rhizoctonia solani, Rhizoctonia solani, non antagonistic, antagonistic, Pythium aphanidermatum</p>
26	Heat & high light	<p>Combined heat and high light stress, Interactive effects of heat and high and high light, Crop loss caused by heat and high light interaction, High temperature and high light stress on crops, Heat and high light acclimatization, Heat and high light signalling, Interaction factors involved in heat and high light stress, Simultaneous application of heat and high light, Photo inhibition, light and temperature stress, photosynthesis, effect of high light on photosynthesis.</p>
27	Heat & Ozone	<p>Combined effect of heat and ozone, effect of ozone pollution and elevated temperature, ozone pollution, climate change</p>
28	Heat & UV	<p>Combined effect of UV and heat, interactive effect of UV and high</p>



		temperature, effect of UV and heat and growth and physiology of plants
29	Heavy metal & bacteria	Combined heavy metals and bacterial infection/diseases, Plant bacterial infection/diseases on heavy metal contaminated soil
30	Heavy metal & insect	Combined Effect of heavy metal and insect infection in plants, Interactive Effects of heavy metal and insect infection in plants, interactive effect of heavy metal and herbivory in plants
31	Heavy metal & oomycetes	Effect of heavy metal and fungal infection in plants, combined heavy metals and fungal infection in plants.
32	Heavy metal & ozone	Combined heavy metal and ozone stress in plants, interaction between heavy metal and ozone stress in plants, effect of heavy metal on ozone injury, effect of ozone on heavy metal induced damages.
33	Heavy metal & virus	Combined heavy metal stress and viral diseases in plants, effect of heavy metal stress and viral diseases in plants
34	Heavy metal & fungus	Effect of heavy metal and fungal infection in plants, combined heavy metals and fungal infection in plants.
35	Heavy metal & nematode	Effect of heavy metal and nematode infection in plants, combined heavy metals and nematode infection in plants.
36	Heavy metal & high light	Effect of heavy metal and high light on plants, combined Effect of heavy metal and high light on plants, effect of high light on heavy metal induced damages in plants.
37	Heavy metal & UV	Combined cadmium and UV stress in plants, combined lead and UV stress in plants, interaction between heavy metal and UV stress, combined mercury and UV stress in plants, combined arsenic and UV stress in plants, combined heavy metal and UV stress in plants.
38	Virus & high/low light	Combined high light and virus stress in plants, combined low light and virus stress in plants, effect of high light intensity on virus disease incidence in plants, effect of high light intensity on virus multiplication in plants, interaction between high light and virus stress in plants, effect of low light intensity on virus disease incidence in





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		plants, effect of low light intensity on virus multiplication in plants, interaction between low light and virus stress in plants.
39	Bacteria & high/low light	Effect of high/low light on bacterial disease incidence in plants, interaction between high/low light and bacterial pathogen stress in plants, combined high/low light and bacterial pathogen stress in plants
40	High light & ozone	Combined effect of high light and ozone, effect of ozone pollution and high light, ozone pollution, climate change
41	Shade/competition & high light	Effect of high light on plant competition/ plant density, Combined effect of crop density and high light
42	High/low temperature & oomycetes	Combined high temperature and oomycete infection in plants, temperature and oomycete.
43	Insects & oomycetes	Insect-oomycete interaction, antagonist, mutualist, oomycete transmission, vector, oomycete, vector, mutualism, Arthropod, Pest interaction, fungi, oomycetes, pathogen–insect interactions, direct interactions, indirect interactions, phytopathogens, root-feeding insects
44	Insect & high/low light	Combined high light and insect infestation in plants, combined low light and insect infestation in plants, effect of high light intensity on insect infection in plants, effect of high light intensity on insect infection in plants, interaction between high light and insect pests in plants, effect of low light intensity on insect reproduction in plants, effect of high light intensity on insect reproduction in plants, interaction between low light and insect pests in plants.
45	Low light & cold/freezing/low-temperature	Combined low light and cold stress in plants, combined low light and freezing stress in plants, interaction between low light and low temperature stress, combined shade and cold/freezing stress.
46	Low temperature & UV	Low temperature and UV combined stress in plants, Combined effect of temperature and UV in plants, Combined UV and Freezing effects on plants, Interactive effects of Low temperature and UV
47	Low temperature/freezing & high light	Low temperature and high light combined stress in plants, Combined effect of





		temperature and high light in plants, Combined high light and Freezing effects on plants, Interactive effects of low temperature and High light on plants, Combined high light and low temperature effects on plants, high light -low temperature interaction in plants, Combined Frost and high light tolerance, Synergistic effects of Frost and high light
48	Mites & virus	Interaction between virus and mites in plants, combined effect of mites and virus stress on plant,
49	Mycoplasma & virus	Combined mycoplasma and virus infection in plants, interaction between mycoplasma and virus in plants, effect of mycoplasma infection on virus disease incidence in plants, effect of virus infection on mycoplasma disease incidence in plants.
50	Nematode & bacteria	Meloidogyne incognita, Ralstonia solanacearum, Nematode bacteria complex in plants, Disease interactions in nematode and bacteria, Root knot and ralstonia in tomato, Nematode and Bacteria treatments under combined stress, Nematode–pathogen disease complexes reported in crop, Root knot and ralstonia in tomato or brinjal,
51	Nematode & flooding/submergence/waterlogging/anoxia	Flooding/submergence/waterlogging/anoxia and nematode combined stress in plants, Combined effect of Flooding/submergence/waterlogging/anoxia and nematode stress in plants, Interactive effect of Flooding/submergence/waterlogging/anoxia and nematode stress in plants
52	Nematode & fungus	Interaction between nematode & fungus stress in plants, effect of nematode infection on fungal-induced diseases in plants, effect of fungal infection on nematode infection in plants, combined effect of nematode and fungus on plants.
53	Nematode & mites	Nematode mite disease complex in plants, Tetranychus urticae interaction with plant parasitic nematode, mite-plant parasitic nematode interaction, Nematode and mite double infection in crop, Nematode and arthropod interaction in plant, Nematode and arthropod disease complex in plants



54	Nematode & oomycetes	Nematode oomycete disease complex in plants, phytophthora infestans and nematode disease complex in plants, phytophthora infestans and nematode combined stress in plants, pythium aphanidermatum nematode disease complex, Pythium interaction with plant parasitic nematode, Aphanomyces and nematode disease complex in plants, Albugo and nematode disease complex in plants, Albugo interaction with plant parasitic nematode, Hyaloperonospora and nematode disease complex in plants, Peronospora interaction with plant parasitic nematode, Plasmopara interaction with plant parasitic nematode
55	Nematode & virus	Nematode virus combined stress in cardamom, Disease interactions of nematode and viruses, Root knot and mosaic or leaf curl, Nematode predisposes virus infection in plants, Nematode virus interaction in chilli, Nematode virus complex in cucurbits, Root knot and cucumber viruses, Nematode virus complex in soybean, Root knot and soybean viruses, Nematode virus complex in sugar beet,
56	Nematode & high/low light	Combined high light and nematode stress in plants, combined low light and nematode stress in plants, effect of high light intensity on nematode disease incidence in plants, effect of high light intensity on nematode multiplication in plants, interaction between high light and nematode stress in plants, effect of low light intensity on nematode disease incidence in plants, effect of low light intensity on nematode multiplication in plants, interaction between low light and nematode stress in plants.
57	Nutrient deficiency/toxicity & bacteria	Combined nutrient (N, K, Ca, Mg, P, S, Cl, Fe, B, Mn, Cu, Zn, Mo) deficiency and bacterial infection/bacterial diseases in plants, Combined nutrient (N, K, Ca, Mg, P, S, Cl, Fe, B, Mn, Cu, Zn, Mo) toxicity and bacterial infection/bacterial diseases in plants
58	Nutrient deficiency/toxicity & cold	Combined nutrient (N, K, Ca, Mg, P, S, Cl, Fe, B, Mn, Cu, Zn, Mo) deficiency and cold stress in plants, Combined nutrient (N, K,



		Ca, Mg, P, S, Cl, Fe, B, Mn, Cu, Zn, Mo) toxicity and cold stress in plants
59	Nutrient deficiency/toxicity & virus	Combined nutrient (N, K, Ca, Mg, P, S, Cl, Fe, B, Mn, Cu, Zn, Mo) deficiency and viral infection/viral diseases in plants, Combined nutrient (N, K, Ca, Mg, P, S, Cl, Fe, B, Mn, Cu, Zn, Mo) toxicity and viral infection/viral diseases in plants
60	Nutrient deficiency/toxicity & insects	Combined nutrient (N, K, Ca, Mg, P, S, Cl, Fe, B, Mn, Cu, Zn, Mo) deficiency and insect infection in plants, Combined nutrient (N, K, Ca, Mg, P, S, Cl, Fe, B, Mn, Cu, Zn, Mo) toxicity and insect infection in plants.
61	Nutrient deficiency/toxicity & ozone	Effect of nutrient deficiency on ozone stress in plants, Effect of nutrient toxicity on ozone stress in plants, combined nutrient and ozone stress on plants.
62	Nutrient deficiency/toxicity & UV	Effect of nutrient deficiency on UV stress in plants, Effect of nutrient toxicity on UV stress in plants, combined nutrient and UV stress on plants, nutrient and UV stress complex in plants
63	Oomycetes & bacteria	Bacteria oomycete disease complex in plants, phytophthora infestans and bacteria disease complex in plants, phytophthora infestans and bacteria combined stress in plants ,pythium aphanidermatum bacteria disease complex in plants, Pythium interaction with plant parasitic bacteria, Aphanomyces and bacterial disease complex in plants, Albugo and bacterial disease complex in plants , Albugo interaction with plant bacteria, Hyaloperonospora and bacterial disease complex in plants, Peronospora interaction with plant bacteria, Plasmopara interaction with plant bacteria
64	Oomycetes & ozone	Effect of ozone and oomycete infection on plants, combined ozone and oomycete infection in plants.
65	Ozone & low temperature/freezing	Low temperature and Ozone combined stress in plants, Combined effect of temperature and Ozone in plants, Combined Ozone and Freezing effects on plants, Interactive effects of Low temperature and Ozone, Combined Ozone and low temperature effects on plants, Combined



		Frost and Ozone tolerance, Synergistic effects of Low temperature and Ozone
66	Ozone & virus	Combined ozone and viral infection in plants
67	Ozone & bacteria	Combined ozone and bacterial infection, effect of ozone on bacterial diseases
68	Ozone & insects	Effect of ozone on insects, combined effect of ozone and insects on plants, Ozone pollution, effect of insect on plants, insect herbivory and ozone impact on crops
69	Ozone & nematode	Effect of ozone on nematode, combined effect of ozone and nematode on plants, Ozone pollution, effect of nematode on plants.
70	Ozone & weed	Effect of ozone and weed, effect of ozone on plant competition with weed, Ozone pollution, effect of weeds on plants.
71	Plant competition/shade & fungus	Plant density and disease, effect of plant spacing on plant diseases, plant competition and fungal infection, shade and fungal infection of plants, effect of shade/ shade intensity on plant diseases
72	Salt & bacteria	Impact of salinity on plant bacterial infection, Impact of salinity on Pseudomonas infection in plants, Combined salt stress and bacterial infection in plants, Cross referencing was done for all the articles
73	Salt & cold/freezing stress	Combined salinity and cold stress, combined salinity and freezing stress, effect of combined soil salinity and cold stress on plants, impact of soil salinity on cold stress tolerance, effect of soil salinity on freezing stress tolerance, combined effect of soil salinity and freezing stress, effect of cold stress on plant growth in saline soils, effect of freezing stress on plant growth in saline soils.
74	Salt & drought	Salinity & drought stress combination in plants, interaction between salinity & drought stress in plants, effect of salinity stress on drought stress in plants, effect of drought stress on salinity stress in plants, salinity acclimation effect on drought stress in plants, drought acclimation effect on salinity stress in plants, water & salt stress in plants, water limitation & salinity stress



		plants, combined PEG & salinity stress in plants, combined drought & salinity stress in rice, combined drought & salinity stress in wheat, combined drought & salinity stress in quinoa, combined drought & salinity stress in maize, combined drought & salinity stress on vegetables, combined drought & salinity stress on flower production, combined drought & NaCl stress in plants.
75	Salt & heat	Salinity & heat stress combination in plants, interaction between salinity & heat stress in plants, effect of salinity stress on heat stress in plants, effect of heat stress on salinity stress in plants, effect of salinity acclimation on heat stress in plants, effect of heat acclimation on salinity stress in plants, salt+high temperature stress on plants,
76	Salt & high light	Salinity and high light stress in plants, combined salinity and high light stress, high irradiance and salinity stress, combined high irradiance and salinity stress, excess salinity and high light stress, combined high salinity and high light stress, excess irradiance plus salinity stress.
77	Salt & ozone	Effect of Combined salt and ozone on plants, Combination of salinity and ozone stress, effect of salinity and ozone pollution
78	Salt & UV	Combined UV and salt stress on plants, combined UV radiation and salinity on plants, effect of salt stress on UV treated plants
79	Shade/competition & virus	Effect of shade/shading on plant viral infection, effect of plant density/plant competition on plant viral infection
80	Shade/competition & bacteria	Effect of shade/shading on plant bacterial infection, effect of plant density/plant competition on plant bacterial infection
81	Shade/competition & salt	Combined effect of shade and salt stress in plants, Combined effect of shade and NaCl stress in plants, Combined effect of plant competition and salinity stress in plants, Interactive effect of plant competition and salinity stress in plants, Interactive effect of shade and salt stress in plants, Synergistic effect of shade and salt stress in plants,



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		Combined effect of plant density and salt stress in plants
82	Shade/competition & weed	Effect of weed and shade on crops, combined weed and shade, effect of weeds on plants under shade, Combined crop plant density and weed stress
83	Temperature & insects	Combined heat stress/high temperature and plant insect pests/infection, effect of heat stress/high temperature stress and on insect infection in plants, combined cold stress/low temperature and plant insect pests/infection, effect of cold stress/low temperature stress and on insect infection in plants.
84	UV & bacteria	UV and bacteria combined stress in plants, Combined effect of UV and bacteria stress in plants, Interactive effect of UV and bacteria stress in plants
85	UV & ozone	UV and ozone combined stress in plants, Combined effect of UV and ozone stress in plants, Interactive effect of UV and ozone stress in plants, Synergistic effect of UV and ozone stress in plants
86	UV & plant competition/shade	Plant competition, interactive effect of plant competition and UV, Effect of UV on plant density, Effect of UV on plant competition
87	UV & fungus	Combined effect of UV and fungus, effect of UV on fungal pathogen, Wheat stripe rust, UV-B radiation, Impact of ultraviolet radiation on infection by fungus
88	UV & insects	Combined effect of UV and insect, effect of UV and insect, plant insect interaction mediated by UV-B, UV-B radiation, Impact of ultraviolet radiation on herbivory by insect
89	UV & nematode	Combined effect of UV and nematode, effect of UV on nematode, UV-B radiation, Impact of ultraviolet radiation on infection by nematode
90	UV & virus	Combined effect of UV and virus, effect of UV on viral pathogen, tobacco mosaic virus, UV-B radiation, Impact of ultraviolet radiation on infection by virus on plants
91	Viroid & bacteria	Combined Effect of viroid and bacteria infection in plants, Interactive Effects of viroid and bacteria infection in plants,



		Viroid and bacteria combined stress in plants
92	Viroid & fungus	Combined Effect of viroid and fungi infection in plants, Interactive Effects of viroid and fungi infection in plants, Viroid and fungi combined stress in plants
93	Virus & bacteria	Effect of bacterial pathogen on virus pathogen in plants, Effect of virus pathogen on bacterial pathogen in plants, Effect of prior exposure to bacterial pathogen on viral induced diseases in plants, Effect of prior exposure to viral pathogen on bacterial induced diseases in plants, Combined effect of bacterial and viral pathogen on plants, Virus and bacterial infection in plants
94	Virus & fungus	Effect of fungal pathogen on virus pathogen in plants, Effect of virus pathogen on fungal pathogen in plants, Effect of prior exposure to fungal pathogen on viral induced diseases in plants, Effect of prior exposure to viral pathogen on fungal induced diseases in plants, Combined effect of fungal and viral pathogen on plants, Virus and fungal infection in plants
95	Virus & high/low light	Combined high light and virus stress in plants, combined low light and virus stress in plants, effect of high light intensity on virus disease incidence in plants, effect of high light intensity on virus multiplication in plants, interaction between high light and virus stress in plants, effect of low light intensity on virus disease incidence in plants, effect of low light intensity on virus multiplication in plants, interaction between low light and virus stress in plants.
96	Virus & oomycetes	Interaction between virus and oomycetes in plants, effect virus on oomycetes induced disease development, Phytophthora infestans and virus interaction, effect of oomycetes infection on virus growth, combined virus and oomycetes stress in plants.
97	Virus & salt	Salt stress, Potato, virus, physiological, microtuber, salinity, disease spread, viral, Grapevine leafroll virus, Abiotic stress, red grapevine, in vitro biological indexing, faba bean, viral disease





98	High light & weeds	Effect of high light stress on crop weed competition
99	Weed & salt	Effect of salinity on plant weed competition, effect of salt stress on plant weed competition/ weed interference
100	Weed & drought	Effect of drought on crop weed interaction, effect of combined drought and weed stress
101	UV & weed	Effect of UV on plant weed competition,.
102	Wound & bacteria	Combined wounding and bacterial infection in plants, effect of wounding on bacterial infection in plants, wounding and bacterial pathogen interaction, wounding & Pseudomonas interaction, wounding & Ralstonia interaction.
103	Wound & fungus	Combined wound and fungal infection in plants, effect of mechanical wounding on fungus infection in plants, mechanical wounding and fungus interaction.
104	Wound & heat	Combined mechanical wounding and heat stress in plants, interaction between mechanical wounding and heat stress, effect of mechanical wounding on heat stress tolerance, effect of heat stress on wound-induced defense, wound-induced resistance against heat stress, heat stress-induced resistance against wounding.
105	Wound & high light	Combined mechanical wounding and high light intensity stress in plants, interaction between mechanical wounding and and high light intensity, effect of mechanical wounding on and high light intensity tolerance, effect of heat str and high light intensity ess on wound-induced defense, wound-induced resistance against and high light intensity, and high light intensity - induced resistance against wounding.
106	Wound & oomycetes	Combined wounding and oomycetes infection in plants, effect of mechanical wounding on oomycetes infection in plants, mechanical wounding and oomycetes interaction
107	Wound & salt	Combined mechanical wounding and salt stress in plants, interaction between mechanical wounding and salinity stress, effect of mechanical wounding on salinity stress, effect of salinity stress on wound, wound-induced resistance against salinity



		stress, salinity-induced resistance against wounding.
108	Wound & virus	Combined wounding and virus infection in plants, effect of mechanical wounding on virus infection in plants, mechanical wounding and virus interaction.
109	Wound & fungus & nematode	Combined wounding and nematode infection in plants, effect of mechanical wounding on nematode infection in plants, mechanical wounding and nematode interaction.
110	Wound & nematode	Combined wounding and nematode infection in plants, effect of mechanical wounding on nematode infection in plants, mechanical wounding and nematode interaction.
111	Wound & cold/freezing	Combined wounding and cold/temperature infection in plants, effect of mechanical wounding on cold/temperature infection in plants, mechanical wounding and cold/temperature interaction, mechanical wounding and cold/temperature interaction
112	Wound & insect	Combined wounding and insect infection in plants, effect of mechanical wounding on insect infection in plants, mechanical wounding and insect interaction, mechanical wounding and herbivory interaction
113	Bacteria & mites	Combined effect of bacteria and mites on plants, effect of bacteria on plants, interactive effect of bacteria and mites on plants, mites carrying the bacterial diseases on plants, cross referencing.
114	Shade/competition & nematode	Combined competition/shade and nematode, effect of plant competition on nematode population, effect of competition and shade on plant pathogen
115	Drought & heavy metal	Combined effect of drought and heavy metals on plants, effect of drought and heavy metal on plants
116	High light & UV	Combined effect of high light and UV on plants, Interactive effect of high light & UV stress on plants, cross referencing
117	Mycoplasma & fungus	Combined stress of Mycoplasma and fungi on plants, combined Mycoplasma and fungi stress, fungi-Mycoplasma interaction on plants



## Stress Combination and their Interactions in Plants (SCIP) Database

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118	Nutrient deficiency/toxicity & nematode	Combined effect of nutrient deficiency and nematode on crops, combined effect of nutrient toxicity and nematode on crops, effect of nutrients on nematodes, cross referencing
119	Nutrient deficiency/toxicity & fungus	Combined effect of nutrient deficiency and fungus on crops, combined effect of nutrient toxicity and fungus on crops, effect of nutrients on fungus, cross referencing
120	Nutrient deficiency/toxicity & high light	Combined nutrient (N, K, Ca, Mg, P, S, Cl, Fe, B, Mn, Cu, Zn, Mo) deficiency and high light stress in plants, Combined nutrient (N, K, Ca, Mg, P, S, Cl, Fe, B, Mn, Cu, Zn, Mo) toxicity and light in plants
121	Heavy metal & weed	Combined Effect of heavy metal and weed interaction in plants, Interactive Effects of heavy metal and weed interaction in plants, interactive effect of heavy metal and weed in plants, Combined Effect of heavy metal and invasive species interaction in plants
122	Nutrient deficiency/toxicity & weed	Combined nutrient (N, K, Ca, Mg, P, S, Cl, Fe, B, Mn, Cu, Zn, Mo) deficiency and weed stress in plants, Combined nutrient (N, K, Ca, Mg, P, S, Cl, Fe, B, Mn, Cu, Zn, Mo) toxicity and weed stress in plants