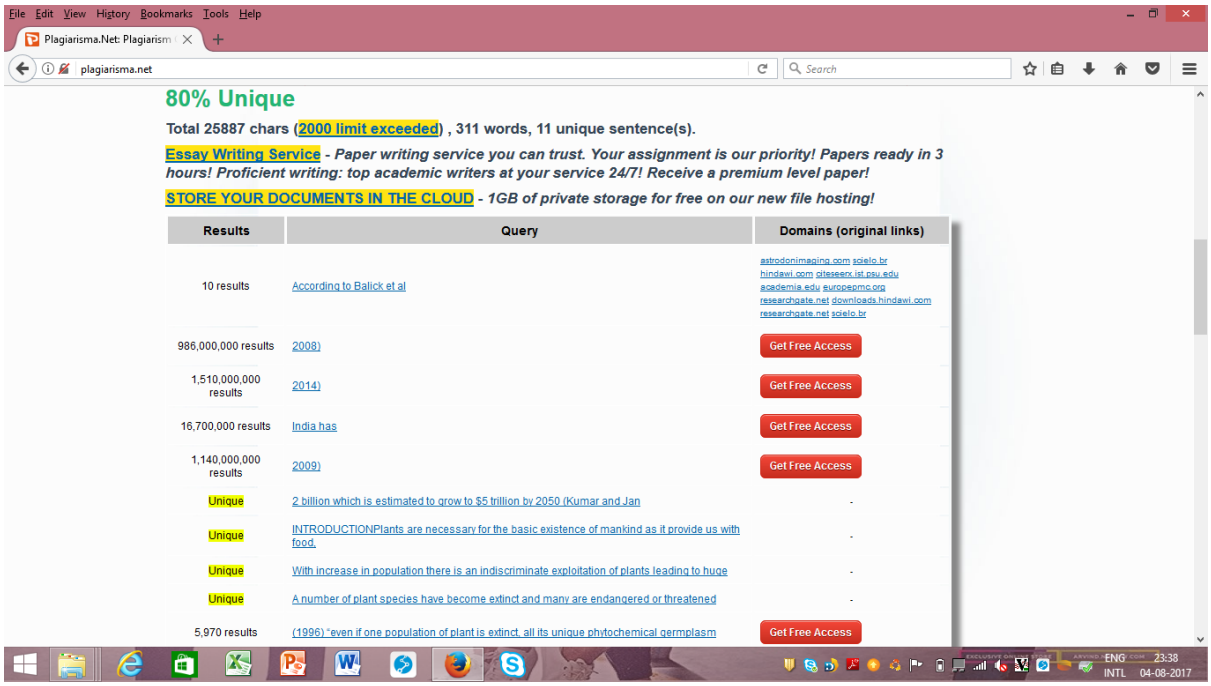
PLAGIARISM

REPORT

Plagiarism Detector Report-INTRODUCTION Section



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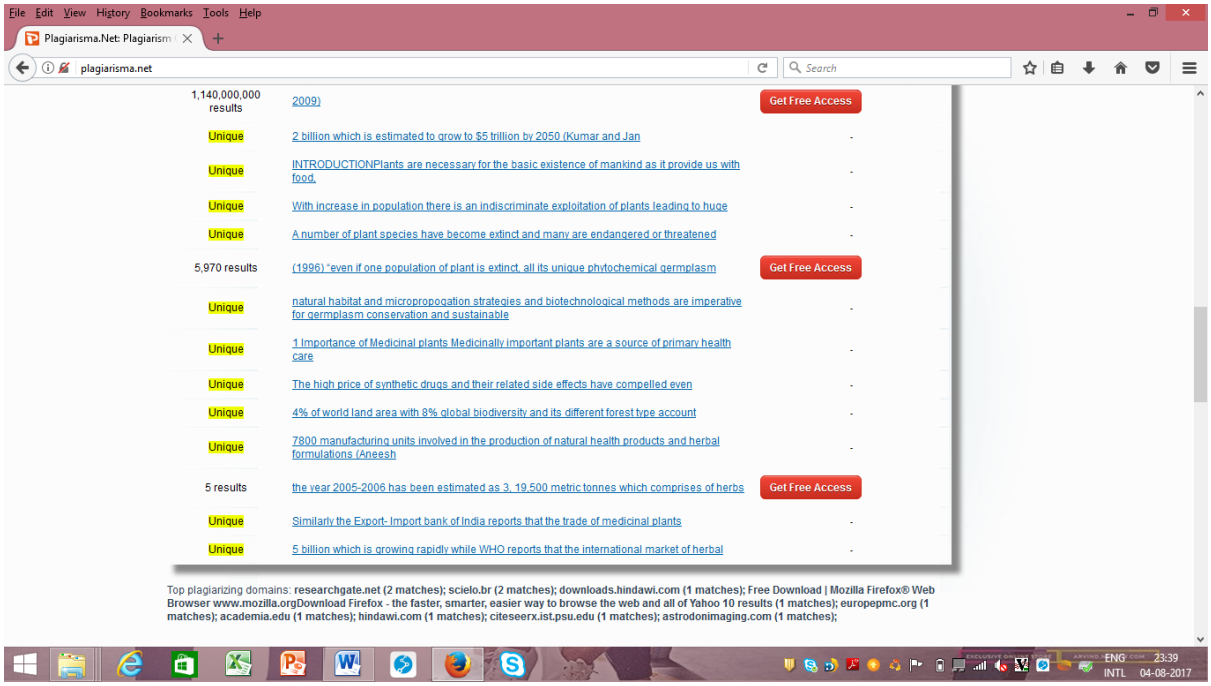
986,000,000 results	2008)	Get Free Access
1,510,000,000 results	2014)	Get Free Access
16,700,000 results	India has	Get Free Access
1,140,000,000 results	2009)	Get Free Access
Unique	2 billion which is estimated to grow to $5 trillion by 2050 (Kumar and Jan	-
Unique	INTRODUCTIONPlants are necessary for the basic existence of mankind as it provide us with food.	-
Unique	With increase in population there is an indiscriminate exploitation of plants leading to huge	-
Unique	A number of plant species have become extinct and many are endangered or threatened	-
5,970 results	(1996) "even if one population of plant is extinct, all its unique phytochemical germplasm	Get Free Access



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1,140,000,000 results	2009)	Get Free Access
Unique	2 billion which is estimated to grow to $5 trillion by 2050 (Kumar and Jan	-
Unique	INTRODUCTIONPlants are necessary for the basic existence of mankind as it provide us with food.	-
Unique	With increase in population there is an indiscriminate exploitation of plants leading to huge	-
Unique	A number of plant species have become extinct and many are endangered or threatened	-
5,970 results	(1996) "even if one population of plant is extinct, all its unique phytochemical germplasm	Get Free Access
Unique	natural habitat and micropropogation strategies and biotechnological methods are imperative for germplasm conservation and sustainable	-
Unique	1 Importance of Medicinal plants Medicinally important plants are a source of primary health care	-
Unique	The high price of synthetic drugs and their related side effects have compelled even	-
Unique	4% of world land area with 8% global biodiversity and its different forest type account	-
Unique	7800 manufacturing units involved in the production of natural health products and herbal formulations (Aneesh	-
5 results	the year 2005-2006 has been estimated as 3, 19,500 metric tonnes which comprises of herbs	Get Free Access
Unique	Similarly the Export- Import bank of India reports that the trade of medicinal plants	-
Unique	5 billion which is growing rapidly while WHO reports that the international market of herbal	-

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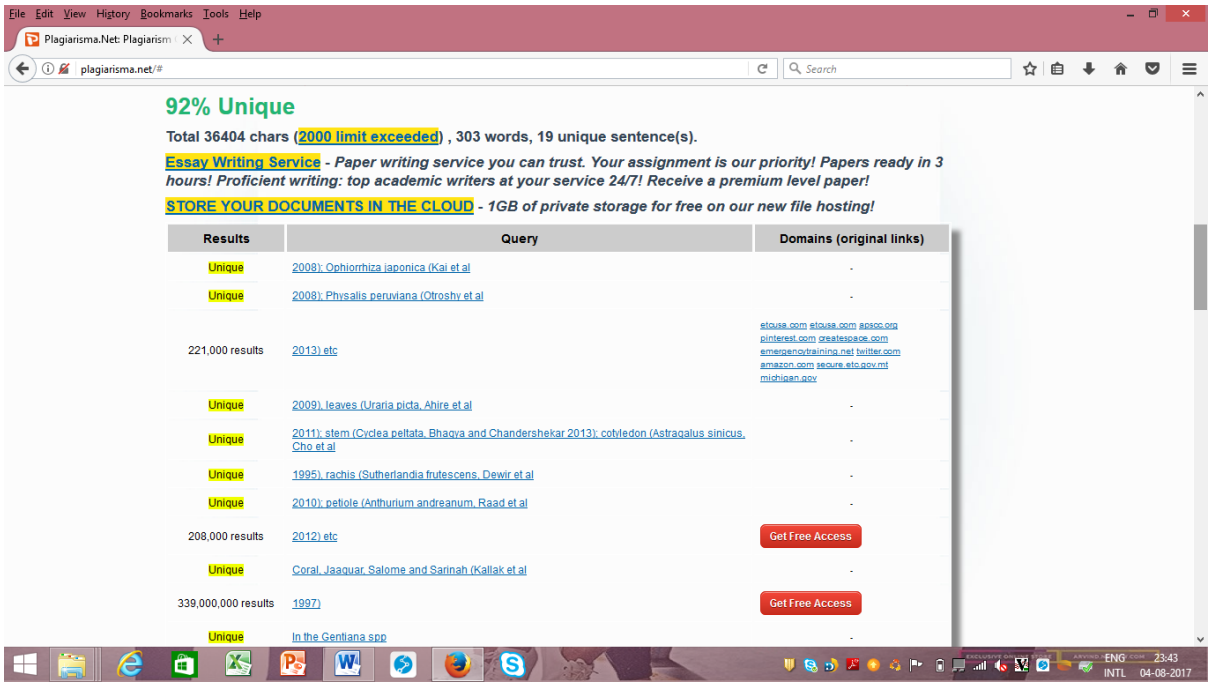
Plagiarism Detector Report- REVIEW OF LITERATURE Section



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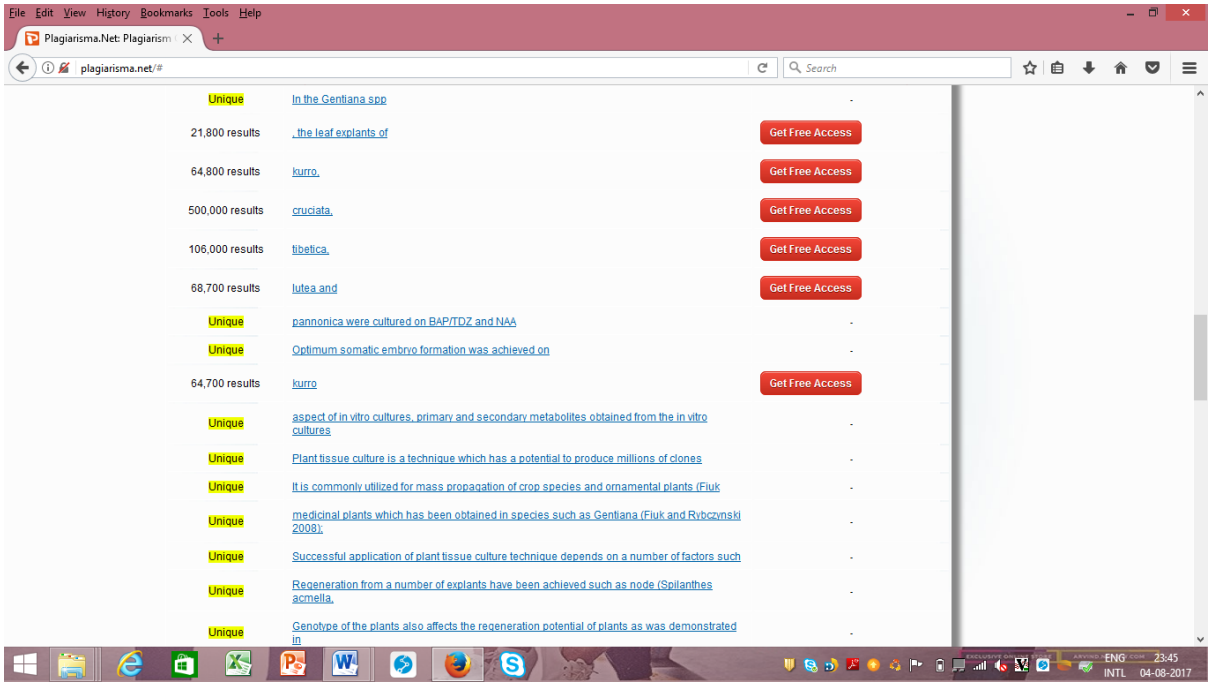
Results	Query	Domains (original links)
Unique	2008); Ophiorrhiza japonica (Kai et al	-
Unique	2008); Physalis peruviana (Otroshy et al	-
221,000 results	2013) etc	etousa.com etousa.com apsco.org pinterest.com greatespace.com emergencytraining.net twitter.com amazon.com secure.etc.gov.mt michigan.gov
Unique	2009), leaves (Uraria picta, Ahire et al	-
Unique	2011); stem (Cyclea peltata, Bhagya and Chandershekar 2013); cotyledon (Astragalus sinicus, Cho et al	-
Unique	1995), rachis (Sutherlandia frutescens, Dewir et al	-
Unique	2010); petiole (Anthurium andreanum, Raad et al	-
208,000 results	2012) etc	Get Free Access
Unique	Coral, Jaaguar, Salome and Sarinah (Kallak et al	-
339,000,000 results	1997)	Get Free Access
Unique	In the Gentiana spp	-



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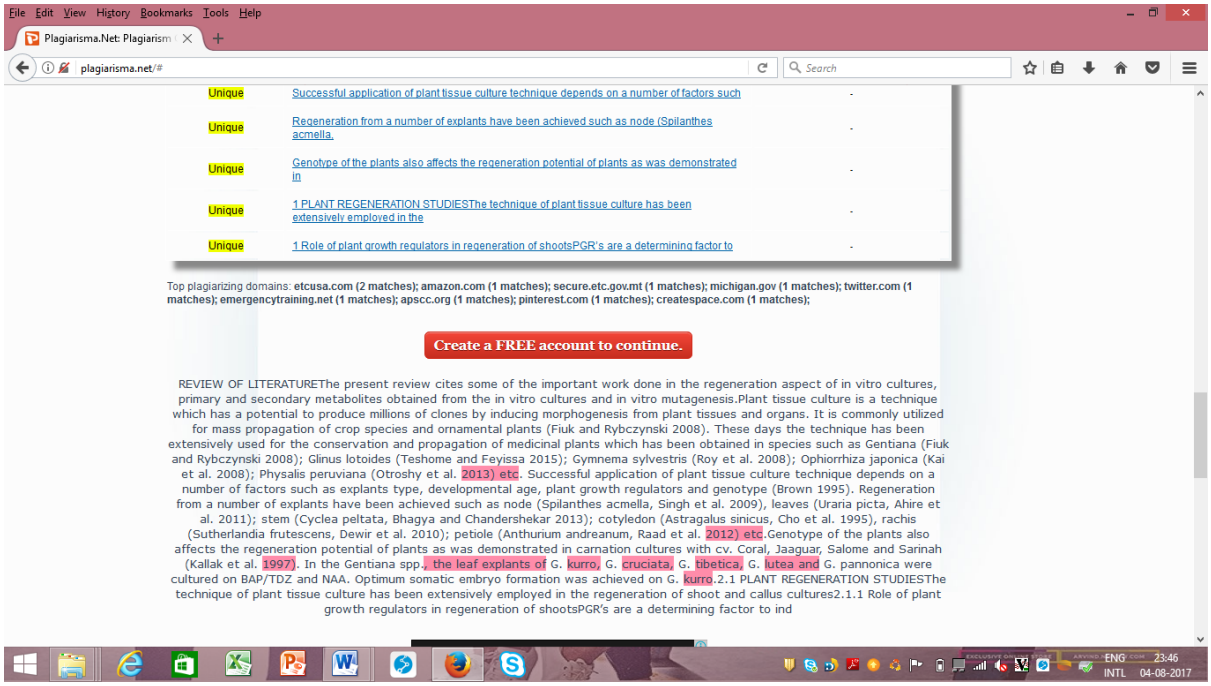
Unique	In the Gentiana spp	-
21,800 results	, the leaf explants of	Get Free Access
64,800 results	kurro,	Get Free Access
500,000 results	cruciata,	Get Free Access
106,000 results	tibetica,	Get Free Access
68,700 results	lutea and	Get Free Access
Unique	pannonica were cultured on BAP/TDZ and NAA	-
Unique	Optimum somatic embryo formation was achieved on	-
64,700 results	kurro	Get Free Access
Unique	aspect of in vitro cultures, primary and secondary metabolites obtained from the in vitro cultures	-
Unique	Plant tissue culture is a technique which has a potential to produce millions of clones	-
Unique	It is commonly utilized for mass propagation of crop species and ornamental plants (Fiuk	-
Unique	medicinal plants which has been obtained in species such as Gentiana (Fiuk and Rybczynski 2008);	-
Unique	Successful application of plant tissue culture technique depends on a number of factors such	-
Unique	Regeneration from a number of explants have been achieved such as node (Spilanthes acmella,	-
Unique	Genotype of the plants also affects the regeneration potential of plants as was demonstrated in	-



Unique	Successful application of plant tissue culture technique depends on a number of factors such
Unique	Regeneration from a number of explants have been achieved such as node (Spilanthes acmella,
Unique	Genotype of the plants also affects the regeneration potential of plants as was demonstrated in
Unique	1 PLANT REGENERATION STUDIESThe technique of plant tissue culture has been extensively employed in the
Unique	1 Role of plant growth regulators in regeneration of shootsPGR's are a determining factor to

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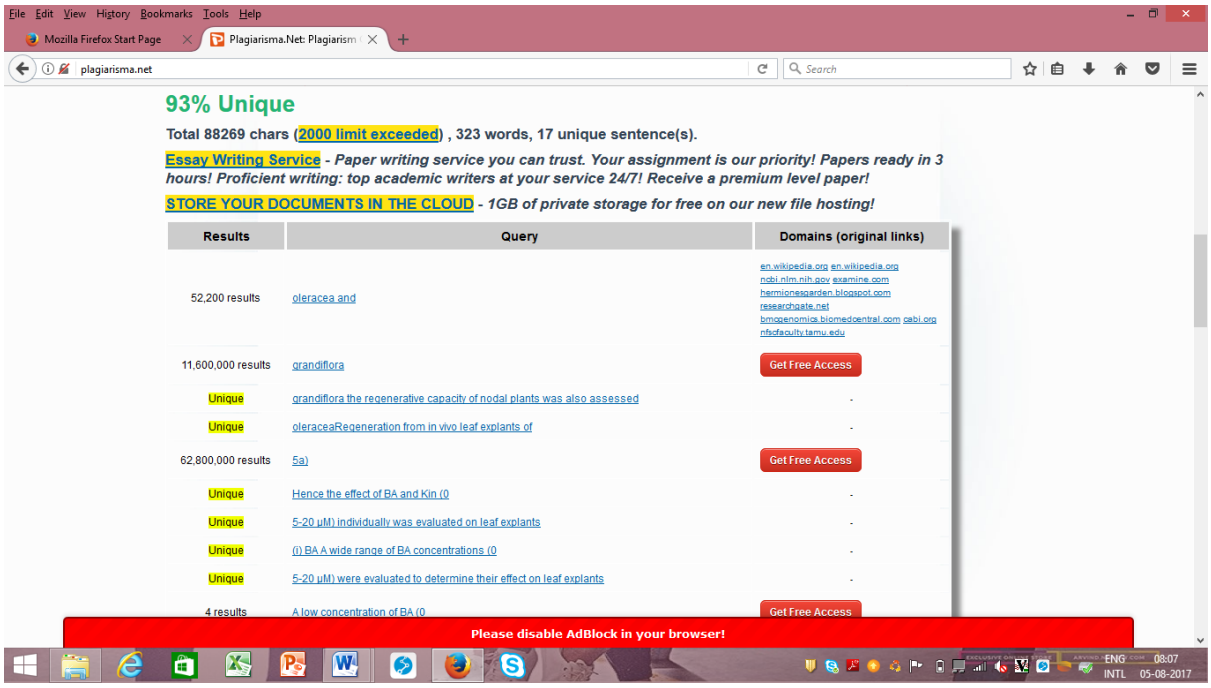
REVIEW OF LITERATUREThe present review cites some of the important work done in the regeneration aspect of in vitro cultures, primary and secondary metabolites obtained from the in vitro cultures and in vitro mutagenesis.Plant tissue culture is a technique which has a potential to produce millions of clones by inducing morphogenesis from plant tissues and organs. It is commonly utilized for mass propagation of crop species and ornamental plants (Fiuk and Rybczynski 2008). These days the technique has been extensively used for the conservation and propagation of medicinal plants which has been obtained in species such as Gentiana (Fiuk and Rybczynski 2008); Glinus lotoides (Teshome and Feyissa 2015); Gymnema sylvestris (Roy et al. 2008); Ophiorrhiza japonica (Kai et al. 2008); Physalis peruviana (Otroshy et al. 2013) etc. Successful application of plant tissue culture technique depends on a number of factors such as explants type, developmental age, plant growth regulators and genotype (Brown 1995). Regeneration from a number of explants have been achieved such as node (Spilanthes acmella, Singh et al. 2009), leaves (Uraria picta, Ahire et al. 2011); stem (Cyclea peltata, Bhagya and Chandershekar 2013); cotyledon (Astragalus sinicus, Cho et al. 1995), rachis (Sutherlandia frutescens, Dewir et al. 2010); petiole (Anthurium andreanum, Raad et al. 2012) etc.Genotype of the plants also affects the regeneration potential of plants as was demonstrated in carnation cultures with cv. Coral, Jaaguar, Salome and Sarinah (Kallak et al. 1997). In the Gentiana spp., the leaf explants of G. kurro, G. cruciata, G. tibetica, G. lutea and G. pannonica were cultured on BAP/TDZ and NAA. Optimum somatic embryo formation was achieved on G. kurro.2.1 PLANT REGENERATION STUDIESThe technique of plant tissue culture has been extensively employed in the regeneration of shoot and callus cultures2.1.1 Role of plant growth regulators in regeneration of shootsPGR's are a determining factor to ind

Plagiarism Detector Report-RESULTS Section



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11,600,000 results	grandiflora	Get Free Access
Unique	grandiflora the regenerative capacity of nodal plants was also assessed	-
Unique	oleraceaRegeneration from in vivo leaf explants of	-
62,800,000 results	5a)	Get Free Access
Unique	Hence the effect of BA and Kin (0	-
Unique	5-20 µM) individually was evaluated on leaf explants	-
Unique	(i) BA A wide range of BA concentrations (0	-
Unique	5-20 µM) were evaluated to determine their effect on leaf explants	-
4 results	A low concentration of BA (0	Get Free Access

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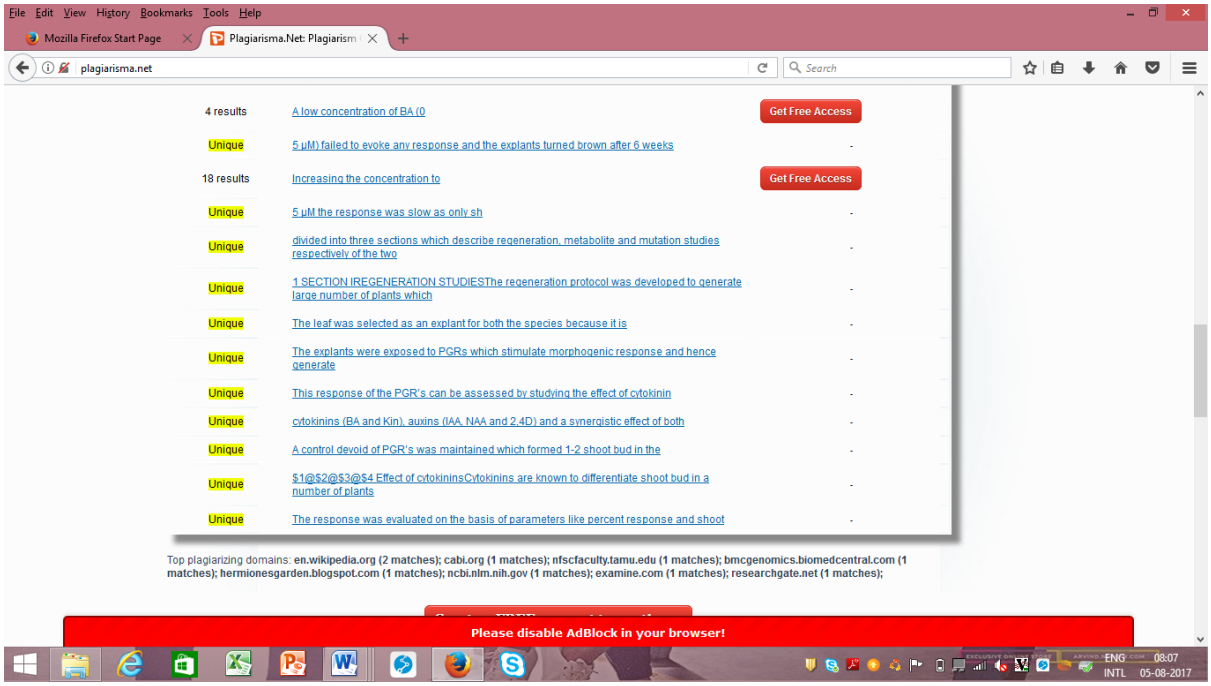

4 results	A low concentration of BA (0	Get Free Access
Unique	5 µM) failed to evoke any response and the explants turned brown after 6 weeks	-
18 results	Increasing the concentration to	Get Free Access
Unique	5 µM the response was slow as only sh	-
Unique	divided into three sections which describe regeneration, metabolite and mutation studies respectively of the two	-
Unique	1 SECTION IREGENERATION STUDIESThe regeneration protocol was developed to generate large number of plants which	-
Unique	The leaf was selected as an explant for both the species because it is	-
Unique	The explants were exposed to PGRs which stimulate morphogenic response and hence generate	-
Unique	This response of the PGR's can be assessed by studying the effect of cytokinin	-
Unique	cytokinins (BA and Kin), auxins (IAA, NAA and 2,4D) and a synergistic effect of both	-
Unique	A control devoid of PGR's was maintained which formed 1-2 shoot bud in the	-
Unique	$1@$2@$3@$4 Effect of cytokininsCytokinins are known to differentiate shoot bud in a number of plants	-
Unique	The response was evaluated on the basis of parameters like percent response and shoot	-

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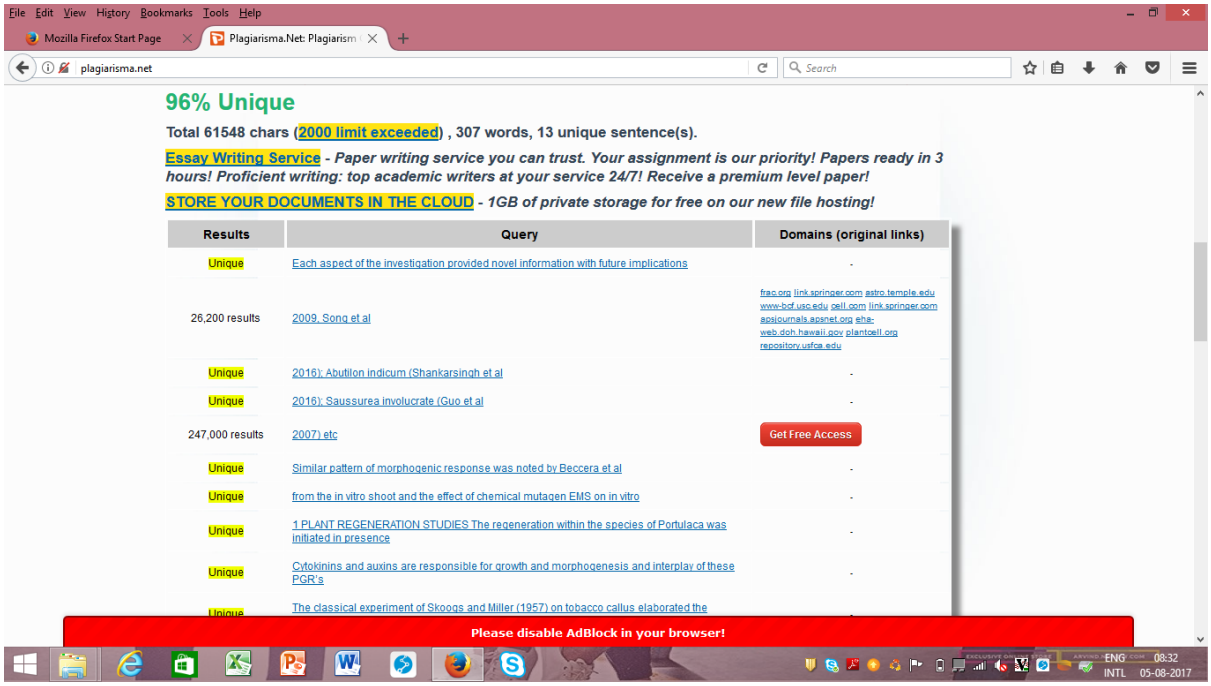

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Unique	Each aspect of the investigation provided novel information with future implications	-
26,200 results	2009, Song et al	frac.org link.springer.com astro.temple.edu www-bcf.usc.edu cell.com link.springer.com apsjournals.apsnet.org eha-web.doh.hawaii.gov plantcell.org repository.usfca.edu
Unique	2016); Abutilon indicum (Shankarsingh et al	-
Unique	2016); Saussurea involucrate (Guo et al	-
247,000 results	2007) etc	Get Free Access
Unique	Similar pattern of morphogenic response was noted by Beccera et al	-
Unique	from the in vitro shoot and the effect of chemical mutagen EMS on in vitro	-
Unique	1 PLANT REGENERATION STUDIES The regeneration within the species of Portulaca was initiated in presence	-
Unique	Cytokinins and auxins are responsible for growth and morphogenesis and interplay of these PGR's	-
Unique	The classical experiment of Skoogs and Miller (1957) on tobacco callus elaborated the	-

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Unique	2016): Saussurea involucrate (Guo et al	-
247,000 results	2007) etc	Get Free Access
Unique	Similar pattern of morphogenic response was noted by Beccera et al	-
Unique	from the in vitro shoot and the effect of chemical mutagen EMS on in vitro	-
Unique	1 PLANT REGENERATION STUDIES The regeneration within the species of Portulaca was initiated in presence	-
Unique	Cytokinins and auxins are responsible for growth and morphogenesis and interplay of these PGR's	-
Unique	The classical experiment of Skoogs and Miller (1957) on tobacco callus elaborated the importance	-
Unique	of reports indicate the importance of the selection of the explant type which governs morphogenesis	-
Unique	of its easy availability, and is known to differentiate shoots causing little disturbance to the	-
Unique	Within the herbaceous species regeneration from leaf explants have been documented in a number	-
Unique	The leaf explants was cut and the morphogenic responses started with swelling and differentiated	-
Unique	cell division and the internal environment of the explants comes in direct contact to PGR's	-

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