

SELF STUDY REPORT FOR 3RD CYCLE OF NAAC ACCREDITATION 2018-2023



Supporting Documents for NAAC Self Study Report (SSR) (3rd Cycle)

Period: 2018-2023



Criterion 3	Key Indicator: 3.3
Research, Innovations and Extension	Research Publication and awards
Metric Number: 3.3.1	Number of Papers published per teacher in the journals notified on UGC website during last five years.

Prepared and submitted by:

Mariani College

SELF STUDY REPORT





2018 - 2023

Matric No.	Headin
3.3.1	Papers published per teacher in the Journals notified on UGC website dur the last five years
Molecular findingy Reports https://doc.org/10.1007/s11033-418-4181-6	
ORIGINAL ARTICLE	(III) Canadidak

of Euphorbiaceae family

Surojit Sen 😘 - Budheswar Dehury² - Jagajjit Sahu³७ - Sunayana Rathi⁴ - Raj Narain Singh Yadav⁵

Received, 20 November 2017 / Accepted, 2 April 2018 O Springer Science+Business Media B.V., part of Springer Nature 2018

Abstract

Euphorbianese represents flowering plants family of tropical and sub-tropical region rich in secondary metabolites of economic importance. To understand and assess the genetic makeup among the members, this study was undertaken to characterize and compare SSR markers from publicly available ESTs and GSSs of nine selected species of the family. Mining of SSRs was performed by MISA, princer designing by Princer5, while functional annotation, gone outology (820) and carichment analysis were performed by Blasz 300. A total 122878 number of SSRs were detected from 101,781 number of EST expenses. SSR density ranged from 1 SSRs 21kb to 1 SSR 15 88 b. A total of 1873 prince pairs were designed for the analysis were performed by Blasz 300. A total 122878 number of SSRs were detected from 101,781 number of EST expenses. SSR density ranged from 1 SSRs 21kb to 1 SSR 15 8 b. A total of 1873 prince pairs were designed for the analysis of the state of the st

Reywords ESTs - SSRs - Emphorbiaceae - Secondary metabolites - Functional annotation - Gene ontology - Enrichment

Electronic supplementary material. The online version of this article threes Wide.cog/16.10075/11.0035-015-4181-0) contring supplementary material, which is available to stationize distortion.

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Surayana Raifn tradi@aau.ac.in

Raj Norain Singh Yodav rasymbo Salibra.co.in

Course for Biotachendogs and Bioinformatics, Dilengarh University, Dibrogach, Assem, India

Published online: % April 2018

Introduction

Bephorbiaceae (spurge family), is one of the diverse group of flowering plants consisting about 322 genera and 8910 species wide spread throughout the world, particularly in tropical and subtropical region and very poorly represented in the temperate region. This family is diverse in habit,

- Biomedical Informatics Centre, ICMR-Regional Medical Research Centre, Nalco Square, Chandrasekharpur, Bimbaneswar, Odisha 751023, India
- Distributed Information Conser, Department of Agricultural feeterbridgy, Assam Agricultural University, Jorhan, Assam 783013, India
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Report Prepared and Submitted by IQAC







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2018-2023

Matric No.	Heading
3.3.1	Papers published per teacher in the Journals notified on UGC website during the last five years

Home 3 Amount of Option 9 Article

Multiple filamentation and control of properties of selfguided elliptical Gaussian laser beam

Disposit Names a ^[27] Abbigst Disc in Laborita Hammin (Summer of Option 48, 168-47) (2019) | Charma sende 96 Accross | 1 Cooken | Maria

Abstract

The spatial evolution of an elliptical Gaussian beam in fluoride glass (Kerr medium) is studied using nonlinear Schrödinger equation solved by split-step beam propagation method. solutions obtained by numerical simulation are analysed to study the effect of variation of input beam ellipticity on the process of multiple filamentation in elliptical Gaussian beam, where emphasis is on the properties of the self-guided Gaussian laser beam by externally: induced input beam astigmatism. Controlling the properties of self-guided laser beam is a necessity in generation of tailored filaments.

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References

1. V.I. Bespalov, V.I. Talanov, Filamentary structure of light beams in nonlinear media. Trans. JETP Lett. 3, 307-340 (1966)

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2018 - 2023

Matric No.	Heading
3.3.1	Papers published per teacher in the Journals notified on UGC website during the last five years

Combined Effect of Hall and Ion-slip Currents on Unsteady MHD Couette Flow in a Channel with Porous Walls

De Muhim Chutias

Abstract

The unsteady magnetohydrodynamic (MHD) Couette flow of a viscous incompressible electrically-conducting fluid between two parallel porous plates is studied taking half and ion-slip currents into consideration. An external uniform magnetic field and uniform suction and injection are applied perpendicular to the plates while the fluid motion is subjected to the impulsive movement of the lower plate. A numerical solution of the governing equations describing the flow is obtained by the explicit finite difference method. Approximate numerical solutions for the primary and secondary velocity are computed for the cases: (i) when the magnetic lines of force are fixed relative to the fluid; and (ii) the magnetic lines of force are fixed relative to the moving plate. The effects of the various governing parameters e.g. the magnetic parameter (M), Hall parameter (β_g) , ion-slip parameter (β_i) , suction/injection parameter (S) on velocity field are illustrated graphically and discussed.

Key words: MHD, Couette flow, uniform suction and injection, Hall and ion-slip currents, numerical solution.

1.0 Introduction

The study of magnetohydrodynamic (MHD) Couette flow has been a topic of great interest for many researchers due to its applications in MHD power generators

and pumps, accelerators, aerodynamic heating, electrostatic precipitation, polymer technology, petroleum industry, purification of crude oil and fluid droplets and sprays. Katagiri (1962) studied the formation of Couette flow of a

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2018-2023

Matric No.	Heading
3.3.1	Papers published per teacher in the Journals notified on UGC website during the last five years

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Received: 14 September 2000, Accounted S December 2021.

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1. Introduction

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FOR 3RD CYCLE OF NAAC ACCREDITATION



2018 - 2023

Matric No.	Heading
3.3.1	Papers published per teacher in the Journals notified on UGC website during the last five years

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Journal of Food Composition and Analysis

journal homepage: www.etsevier.com/locate/fice



Original Research Article

Comprehensive nutritional evaluation of popular rice varieties of Assam, Northeast India



T. Longvah "-", K. Mangthya ", K. Subbash ", Surojit Sen ", Sunayana Rathi b

* CHAR. Mastered traderics of Nameron, James Comente SQ, Hydresberg SQC 887-75, India
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ABSTRACT

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1. Introduction

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Rice producing states in locks.

Rice research post green revolution period, continued to focus on improving production. Many factors, including, climate, geochemistry, agricultural practices, post-larvest gractices, and geochemistry of the rudivars, affect the notified composition of rice. Data suggest that rice contrains married composition of rice Data suggest that rice contrains married composition of fice.

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Corresponding author.

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Super-Alations 10, 1058-1, fra. 2001, 100850 Received 36 July 2000: Received in seried from 28 April 2001, Accepted 90 April 2001 Accepted to coline 8 Nog 2001 0880-1575/\$2 2007. Standar for All cights accepted.







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Numerical Solution of Unsteady MHD Couette Flow in the Presence of Uniform Suction and Injection with Hall Effects Muhim Chutte* - P.N. Peks* Incomed Sides (2019 Account of Augustation of Couette flow in suclear issue itself for a viscous incomproselve and electronally constituted in the paper, enclosely inguisation of Couette flow in suclear issue itself for a viscous incomproselve and electronally constituted in the paper, enclosely inguisative consistency being particle particle particle flow in suclear itself for a viscous incomproselve and electronally constitute in the channel is induced in a time imprise consequency of the lower plans it had channel and first mattern a subjected to a reform social and injuryance in two papers. Here or folion are watered in eleties to the field. Numerical conflicts for primary and account for the particle particle by employing explicit folion off effects include. Numerical conflicts for primary and excellence of the particle particle and eleties to the field section of the particle of the conflicts of the field section of the particle of the conflicts by employing explicit folion difference medical. Numerical solutions of the primary and excellence of the particle particles are displayed prophenity when rendered conflicts with a subject to the primary and excellence of the particle of the partic	3.3.1	notified on UGC website during
Of Uniform Suction and Injection with Hall Effects Makin Chatte* - R.N. Deks* Instance of New 1227 - Account 1. A cold 2019 of the owner (2.5 g 2.3 2) Abstract In this paper, enteredly imparative outperform Country flow is suciously for a viscous, incompressible and clearing youth colding dial between two intribitely long parallel, paper, that performs the assent. Fluid flow within the channel is induced in the registery of the lower plane, taking Edil connect into an adjusted to a reflection posity, and interpretates tower plane. May self-time of the channel are third mention in adjusted to a reflection of outperform two planes of the channel are fixed related to the field. Numerical solvings of the primary and accounting experiently of replaying explicit fixed of fixed outperforms of the channel of the channel only displaying exploration promoters of which all the solvings of Hall sound promoters are displayed graphically overses reaching promoters of which can be primary and execution promoters of the channel of the interest of the channel of the channel of the primary and execution promoters of the solving plane in the primary and execution promoters of the channel of the interest of the channel of the channel of the interest promoters of the channel of the channel of the interest of the channel of the channel of the interest of the channel of the channel of the interest of the channel	is all found of Science of Audienting, The tockers of Mechanic largers erace Value (15.100) 40007-403-00169 (
1 Introduction the chorsel Singhand Kumar (1992) makes the position crossbank by Kalagar (1992) and Makai (1993) in a last	of Uniform Suction and Injection with H Makin Chatta* - P. N. Deka* Incomed Shind (2011 - Krimmed) And 2020 Part from which (2018 20) District Investigation Abstract In the paper, entroody unquasimounterarile County flow a meality conducting third between two intertiety long parallel within the channel is induced in: in impatitive circeryces of the entroop specific ordinal injections of unpresent when place Magnifecture or in a popular first of difference included Natural and according to the child. Naturalisal solutions or in application of the county of the child in a solution of the county of the count	condent entercially for a viscous monogenosity and clea- property plans, taking Edi symmetries assement. Pland flow sower plans of the channel and first manner in adoption for the or from any assemble to the capable by employ- cymenty and excensive y-clocities are displayed graphenally allow of Hall named phonogeness, magnetic parameter 46, if where it confirms of this fraction as the surving plans
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Englance of Middennian Marca Calego Martinia and and Double (2006), Alves et al. (1996), (1997) et al.	Experience of Ministrators House College Martini August 1980/4 1985. The action of Parameterial Delegans to result, Tablesgate, August 198004, 2024.	(2007, 2008). Khan et al. (2009) and Deke (2008) stre- ied negretally deproposite flow within an infinitely near







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2018 - 2023

Matric No.	Heading
3.3.1	Papers published per teacher in the Journals notified on UGC website during the last five
	years

3 for Brain Ses, 2022 Jan 240 (1):113-122 on: 10.1007/400221-021-06237 y Epide 2021 Oct 11.

Garcinol blocks motor behavioural deficits by providing dopaminergic neuroprotection in MPTP mouse model of Parkinson's disease: involvement of anti-inflammatory response

Bananheer Cheria Pfeukan * 5, Ankumoni Dutta * 5 2, Satarupa Deb * 7, Rubul Sakia * 5, Muhammed Xhanujiaman Mazumder ³, Rajib Paul ⁶, Rallab Bhartacharya ⁶, Rajat Sandhii ⁶, Anaponi Borah

Affliations 4 espand PMID: 34633467 DOI: 10.1007/s00221-021-06237-y

Abstract

Although the etiplogy of Parkinson's disease (PDI) is peoply undenstood, studies in animal models. revialed loss of disparsine and the disparsinergic neurons harbouring the neurotransmitter to be the principal cause behind this neuro-motor disorder. Neuminformation with glial cell activation is suggested to play a significant role in dopaminergic neurodegeneration. Several biomolecules have been reported to confer dopaminergic neuroprotection in different animal models of PD, owing to their anti-inflammatory potentials. Garcinol is a tri-isogrenylated benzophenone isolated from Garcinia sp. and accumulating evidences suggest that this molecule could provide reproprotection by modulating oxidative stress and inflammation, However, direct evidence of doparminegic neuroprotection by gardnot in the pre-clinical model of PO is not yet reported. The present study aims to investigate whether administration of garcinol in the MPTF mouse model of PD may ameliarate the cardinal motor behavioural deficits and prevent the lass of dopaminersis neurons. As expected, garcinol blocked the parkingenian motor behavioural deficits which include akinesia. sutalegay, and maring anomalies in the mice model. Most importantly, the degeneration of dependency's call bodies in the substantia nigra region was significantly prevented by gardinol. Furthermore, garrisol muluing the inflammatory marker, gful fibrillary acidic protein, in the valuationis riigra region. Since glial hyperactivation mediated inflammation is inevitably associated with the lass. of dopartinergic neurons, our study suggests the anti-inflammatory role of garcinol in facilitating dependings consequention in PD mice. Hence, in the light of the present study, it is suggested that garcinol is an effective anti-parkinsonian agent to block motor behavioural deficits and doguminergic neuroodegeneration in PO.

Keywords: Dopuminergic reurons: Garcinol: Inflammation: Motor behaviour: Neuroprotection; Substantia nigra.

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2018-2023

Matric No.	Heading
3.3.1	Papers published per teacher in the Journals notified on UGC website during the last five
	years

NUMERICAL SOLUTION OF MIID CHANNEL FLOW IN A POROUS MEDIUM WITH UNIFORM SUCTION AND INJECTION IN THE PRESENCE OF AN INCLINED MAGNETIC FIFLD

Mohler Chads

Department of Mathematics, Marine College, Marines 721074, Ameri Italia mathematics (Special Section 1)

Received, 29 September 2021, Accepted, 5 April 2022

Abstract. In this paper, the steady fully developed MHD flow of a vicanus mean provide electrically conducting fluid through a channel filled with a popular medium and bounded by two infinite with a more eigened minimization for the cases (i) Prescribe flow and on Constitution Constitution of the Constitution of the Constitution of injections the will in the prescript of a medium magnetic field. The Estatution equation to use for the flow in the porton channel and solved minimization with the first difference method. Numerical results are obstrated and solved the vicanus flow of various channels are permitted with a Difference method for the vicanus of the vicanus of the prescription of the vicanus of the vicanus channels of the vicanus of the flow are discovered and prescribed graphically.

MMC 2010: 151201. 15460, 510.12 Represents: 167D fam. Bradenia equation, percentality parameter, Harmonia modes, miform section and injection, finite difference method.

Nomenclature

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2018 - 2023

Matric No.	Heading
3.3.1	Papers published per teacher in the Journals notified on UGC website during the last five years

AMA (ISSN: 00845841)

ISSN: 00845841 Volume 53, Issue 07, July, 2022

Nutritional, antinutritional and in vitro digestibility of sprouted mung beans

Hemanth K. Manne¹, Minakshi Dutta¹, Rahul Sen¹, Samindra Baishya¹, Manashi D. Purkayastha², Akhil R. Baruah³, Surojit Sen⁴, Raju Paswan⁵, Sunayana Rathi¹

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Food Science and Technology, Assam Agricultural University, Jorhat-785013, India² Department of Agricultural Biotechnology, Assam Agricultural University, Jorhat-785013, India³ Department of Zoology, Mariani College, Mariani-785634, Jorhat, Assam, India¹ Department of Agricultural Statistics, Assam Agricultural University, Jorhat-785013, India⁵

Corresponding author: 1*



Keywords:

Antinutrients, Digestibility. Minerals, Nutrients, Sprouting.

Germination increases the bioavailability of nutrients and sprouts are a good source of vitamins and minerals. Seeds of three mang bean varieties (SGC-16, SGC-20 and IPM-02-3) of Assam were sprouted at 24, 48, 72 and 96 h under dark at 25±2°C. Significant increase in moisture content, crude protein, crude fibre and ash contents, while crude fat, starch and carbohydrate content significantly decreased during the sprouting period. Mineral contents (Na, K, P, Ca, Mg, Fe, Zn, and Cu), vitamin C, niacin significantly increased during the sprouting period. Thiamine increased up to 72 h and riboflavin increased up to 48 h and then both showed decreasing trend. Antinutritional factors like phytic acid and tamin significantly decreased while, in vitro protein digestibility significantly increased during sprouting periods. The varieties SGC-20 and SGC-16 are nutritionally superior over the variety IPM-02-3 which can be recommended for use in breeding as sprout varieties.







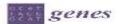
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FOR 3RD CYCLE OF NAAC ACCREDITATION



2018 - 2023

Matric No.	Heading
3.3.1	Papers published per teacher in the Journals notified on UGC website during the last five years





A Comparative Cross-Platform Analysis to Identify Potential Biomarker Genes for Evaluation of Teratozoospermia and Azoospermia

Suchismita Das ¹, Pokhraj Guha ², Monika Nath ¹, Sandipan Das ¹, Surojit Scn ¹9, Jasajjit Sahu ⁴9, Marta Kopanska ⁵9, Sulagna Dutta ¹9, Qazi Mohammad Sajid Jamal ⁷9, Kavindra Kumar Kesari ⁴9, Pallav Sengupta ⁹0, Petr Slama ¹⁹9 and Shubhadcep Roychoudhury ¹-*0

- Department of Life Science and Bioinformatics, Assem University, Sichar (1991), India Department of Zeologe, Caribbea College, Caribbea 721127, India. Department of Zeologe, Mariani Callage, Mariani 78556, India Granzhaia Academic Adelbackaia, Staliavada, Bulintanawa 791023, India Department of Pethophysiologe, India totak decides Sciences, College of Medical Sciences, University of Biocologic, 1990, Academ Federal Sciences, College of Medical Sciences, University of Biocologic, 1990, Academ Federal Sciences, College of Medical Sciences, Bhartaft Institute of Higher Education and Research (BIHFR).
 Comman 600125, India Department of Health Informatics, Callage of Public Health and Health Informatics, Cassim University, At Bulk and Sciences, Callage of Medicitic, Call Sciences, Cassim University, American and Applied Physics, Anaba.
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Abstract: Male infertility is a global public health concern. Teratococoper mix is a qualitative anomaly of spectratococo magnitudegy, contributing segmineantly to male infertility, schemes correspond to the complete absence of operatococo in the ejeculate. Thus, there is a serious need for unwelling the the compacts absence or opermatocock in the ejeculate. Thus, there is a serious need for unwelling the common origin and ver connection between both of those diseases, bears. This study a time to identify common potential biter arker genes of these two diseases via a n in sile to expressed using a meta-analysis of generative date. In this study a differential expression analysis of generative specification, four publicity available RNA microartisty datasets, two each from teratecoexpermin 6.5868/2 and CSE6887; and accesspermin 6.5868/2 and CSE6887; and accesspermin 6.5868/2 and continuous to teratheomorphism and accessormin, and a messalingly, sperm action tipe is, protein for common to be altered permittant are consecuting and, interestingly, sparm action tige to, protein 17 (SPAC) two strough stresses the highest fold change value among all the DDGs (S.4 Ell., while cotted cott domain containing SL(CCDC94) and coiled-cott domain containing SL(CCDC94) genes twee touled to be common unusery films at analysis, i.e., Network Arralyst, Ex.Allae, and GEOZR, his observation initiaties that SPAT2, CCDCW8, and CCDC97 genes might be seeignificant roles to play as potential bottoms for tentographymia and associate man, Time, our study opens a new window of received in this area and can provide an important theoretical basis for the diagnosts and treatment or both these diseases.

Keywords: male intertility: scrategoospeciale, agoospeciale, blomarker genes, SiA17; CCDCWB; CCDC91

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August (September 202) Published 2-September 202 Publisher a Note: NEUT stay are used with regard to furtisate for all distress in puzueto dimopo ara montritornal offi-

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t. Introduction

The worldwide decline in bounca semen quality has placed reproductive The workwide docume in normal sensor quarry and government of the forefront of scientific research on human reproduction and fertility. Male infertility is a combination of complex reproductive ailments with substantial genetic backgrounds [1]. It is characterized by the failure to achieve successful pregnancy after a year of unproducted

Garas 2002, 7.1, 1721. https://doi.org/10.3201/genesi3101721

https://www.mdpt.com/journal/genes

Report Prepared and Submitted by IQAC







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SELF STUDY REPORT





2018-2023

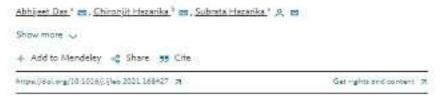
Matric No.	Heading
3.3.1	Papers published per teacher in the Journals notified on UGC website during the last five years



Optik Volume 251, February 2022, 168427



Spatial evolution leading to multiple filament formation of higher order super Gaussian beam in bulk medium at input power $P >> P_{cr}$



Abstract

Multiple filamentation in higher order super Gaussian <u>laser beam</u> propagating in chalcogenide glass is investigated by numerically solving nonlinear Schrödinger equation with split step <u>beam propagation</u> method at input power range of $40 - 160 P_C$ and compared to the process in super <u>Gaussian beam</u>. The effect of raising the beam order on the deterministic nature of multiple filaments, threshold power of filamentation, length of filamentation and the number of filaments formed are analysed. The results indicate that within a range of beam order and input power, the process of multiple filamentation in super <u>Gaussian beam</u> may be controlled through beam order. The study further exemplifies the importance of deterministic filaments and the 'role of beam order as a tool' in control of self-guided <u>laser beam</u> properties in filamentation process.







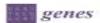
SELF STUDY REPORT





2018 - 2023

Matric No.	Heading
3.3.1	Papers published per teacher in the Journals notified on UGC website during the last five years





In Silico Mining and Characterization of High-Quality SNP/Indels in Some Agro-Economically Important Species Belonging to the Family Euphorbiaceae

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Abstract: [1] Background: To assess the genetic making among the agro-wavecenically important nonselves of Explorebarous, the present study was conducted to identify and characterize high-quality single-reactestate polymorphism (SNP) markers and their comparative distribution in scenic and interior regions from the publicly available expressed sequence tage (ESD). (2) Methods: Quality sequences obtained after pre-processing by an EG assembler were assembled into corrigo using the CAPS program at 97% identify; the mining of SNP sets performed by QualitySNP, CENNSCAN (Intendance) was used for detectioning the distribution of SNPs in the cornic and interior regions. (3) Results: A real of 23,432 potential SNPs (pSNP) and 14,331 high-quality SNPs (pSNP), including 22% medicks, were detected iron 284,479 EST sequences. The ratio of spality SNPs (pSNP), including 12% medicks, were detected iron 284,479 EST sequences. The ratio of spality SNPs to potential SNP ranged from 0.22 to 0.75. A higher frequency of transitions and transervenium was observed more in the coonsis than the interior regain, while indeeds were present more in the interior at the deminant nucleotide substitution, and in indel, A/ was dominant. (4) Condustores: Detected SNP markers may be until abrillation, and in indel, A/ was dominant. (4) Condustores: Detected SNP markers may be until abrillation, and in indel, A/ was dominant. (4) Condustores: Detected SNP markers may be until abrillation; modern proclamations or of graduction or disease esistance by targeting and seasoning mutations is important genes.

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 $\textbf{Keywords:} EST; potential SNP; nucleotide substitution; C \leftrightarrow T installion; A \leftrightarrow T transversion; incleif the substitution of the substitution of$

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1. Introduction

Libroduction

Euphorbiacow is a diverse group of flowering plants distributed worldwide, particularly in tropical and subtropical regions. The family is well-known for both its medicinal and commercial relevance due to the presence of a large earliery of unique secondary metabolites. For instance, Esphéribe Procedit L. is well-known for its healing properties against disorders (such as arthritis astimus, warts, toothadise, gureentseen, cough, surebs, neuralgia, rheamatitien, cancer, and transes [1–3] as well as for biodiesed perchection [2]. E. Nethyris L., Jatrophi rutrus L., Richus communis L., and Venticis forthi Hernel, ore used in the production of paints, varnishes, polymers, and tung of [3–6]. Some members of Empherbiacous are sources of fised, e.g., Martiba excitaint Criego, [7], while some others also have again-economic importance, for example, as a source of rubber

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