



evtqvUK dmtj i eZgvb Ae-v

ISAAA Gi "dmj Re chv i vek Avb tk" a KZR i PZ Dbqbkj t tki Kul -%Re chv Dm etbi vek cwi vzi mvisk |

Rty 08, 2007

G msl vi wkti vbg

Lei

vek; - fvi ePT Zvi wRb AweKZ

AwdKv - Nbvq Lv i thMvb I e'envi velqK wtkLY
- Kmvfv Ges Kj vK qvzi nvZ t_K i qvi Dcvq

Avtgvii Kv - RbMYtK evtqvUK mautK x Kiti Rb c` tjc Mb
- Dm etbi wRGg Dcr vbt wKf c xwZ Dm etbi
- EPA Bollgard II Zj vi Rb Kiti non-cotton refuge approve

Gvkqv I chvS-gavmMiq - Pctbi wAvbt i wRb AvyUtbi Rb bZb QTL Mapping c xwZ Awevi
- Mekong Delta-G Rice virus ti w g tbi mgvavb

BDtvc - EUAtij qv t_K GM Carnations DtbPb
- Exeter Gi wAvb wRGg m ci wqv t i t i e'Ztmi figKv chv i Pbv Kiti t b
- Rvgvbt wcvj cwi gub wRGg Avj wqv t i Rb AvgnZ

- wRv etqv Z fvi Drcv bKvix KIKt i Dbv ci wqv m autK Avb
- bZb wvbs chv i cqv t i gva'g Dbz i evtqv t j Drcv b
- y Ges evtqv t j DcRv t_K t fvr Films Gi bKv cZb
- vbi vi ktm i tlvvj Pwn v gvUvZ Wgv chv
- eb RvZi AvL gvóK tbi Rb MpxZ wvws t cMig
- Regulatory Avdm KZR wRGg Zj vi Sak chv i Pbv

Mtel Yv

- CRY6A aviYKZ wvU UtgvUv Root-knot tbgvUv w cZt vax
- Mtd Trehalose e'envi m autK Review Kiv ntqv
- CBF gene aviYKvix t c kZ cZt vax

Lei

vek;

fvi ePT Zvi wRb Awevi

t utbi Dò Rj evqy t_K kvZj Ges qv t qv w tbi wvkó m autb Rvgv t Z, bvBt Rvi qv t_K K'wi wqv b Dxc chv me' e'vcK wv ZvZ NtU t Q | m v cZK Kv t j i m v g U (CIMMYT) Ges Zv t i cvUv i mg t ni KgRvU fvi wv Rvxb Migration Gi Kvi Y Zj at t Q w Avb v i w v . G b . G . gvK f e'envi i gva'g fvi wv K U e Z P 900 w U RvZi m v t c P x fvi (Teosinte) wv t K Y K t i t Q b | wv Zvi Z: <http://www.cimmyt.org/english/wps/news/2007/may/amazingmaize.htm>

AwdKv

Nbvq Lv i thMvb I e'envi velqK wtkLY

Nbv wv k v e' v j t q i G K m g x q v t f L v t b v n t q t Q t h 1969 t_K 1983 G B m g q K v t j t m t t k i R b c Z L v t i t h v M v b c l q 30% n v m t c t q t Q | S a m u e l C a d j o e G i M t e l b v q A v i I t L v h v q t h G B G K B m g t q N b v q K w R d j b c l q 1% n v m t c t q t Q | D r c v b n v t m i w e w f b e K v i b m g t n i g t a R b m s L v e w x G e s D r c w Z L v t i m v g v b A s k c i i L v w n t m t e e' e n v i A b Z g | wv Zvi Z: <http://www.ajfand.net/Issue13/PDFs?Codjoe-1815.pdf>

wRv etqv Z fvi Drcv bKvix KIKt i Dbv ci wqv m autK Avb

wRv etqv Z t h t m s L K K I K fvi Drcv b K t i Z v t i D b v c i w q v m a u t b R v t Z i m a u t K A v b e v a v i Y v L y B m x g Z e' e n v i K t i | n v B i e W R v t Z i f v i t f v e K A e v q D b v y f v i t P t q t e i k d j b w t q v K t j I Z v t i e v i e v i e' e n v i D r c v b m v s N w Z K i K g f v t e K v g t q t q | wv Zvi Z: <http://www.cimmyt.org/english/wps/news/2007/may/smallholder.htm>

Kmvfv Ges Kj vK qvzi nvZ t_K i qvi Dcvq

cwog AwdKvi clq AtafKi gZ RbmsLvi cavb Lv nj Kmvfv Ges Kj v | Gi gva'g "The Crop Crisis Control Project (C&P)" Kmvfv tgvRvBK fivBim Ges Kj vi Xanthomonas wilt (BxW) bvgK ti v t M i c k g t b i t h e' v t b q v n t q t Q Z v t Z K t i c w o g G e s g a A w d K v i 6 w U t k e j w U , K t z v , t K w b q v , i " q v U v , Z v b R w b q v G e s D M v U v i A e v i e' v c K D b w Z N t U t Q | wv Zvi Z: http://www.iita.org/cms/details/news_aspx?articleid=1049&zoneid=81

Avtgvii Kv

RbMYtK evtqvUK m autK x Kiti Rb c` tjc Mb

evtqvUK t b v j w R m a u t K m t P Z b Z v m v o i D t w M M o t y i R b j w U b A v t g v i i K v G e s K ' w i e x q A A t j c ` t j c M o t b i c o q v R b t h y i v t o f f w R b o q v i P a t r i c i a T r a y n o r G e s w P u j w e k t e v j t q i w K O y m s L K M t e l K " E l e c t r o n i c J o u r n a l o f B i o t e c h n o l o g y " t Z t h c e U c k v k t i b Z v i D t i k m g n n j -

1) cwi Ki bv MhbKvi t i t K AvaybK evtqvUK t b v j w R i m g j w e t k l K t i K w l D r c v b e w x , A w Z K c e w x t t i w e l t q m y u o w P T Z j a i t Z n e l

- 2) RbMtiYi c0Zwbwať i tK h_vh_ Zt_i wfwE mglj , Srik Ges mti c0hvi x c0ve BZ`wi i Dci wbfP Kti evtqvťUKtbyj wRi c0qvM m0utK RbMYtK AeinZ Ki tZ nte|
- 3) gva`ngK we`vj q, wekwe`vj q Ges Ktj tRi mtj evtm Ges Kwl m0c0hvi Y KgPxi t`i KgPxi gta` AvaybK evtqvťUKtbyj wRi wel qmgn AŠfS Ki tZ nte| we`Zwi Z: <http://www.ejbiotechnology.info/content/vo110/issue2/abstract/12/index.html>

bZb` Gabs c0hvi c0qvťMi gva`tg DbZi evtqvťtaj Drcv`b

mq DcťhvMx Ges`xN0vqx evtqvťtaj km` LjR tei Kivi Dťi tK` hř i vťoť Mtel KMYKvR Ki tQb| Emily Smith bvtgi imvqbwe` Ges Iowa State University Gi mnKvix Aa`vcK DwťMť i tKvťi MVb chře`řtbi Rb` GKwJ mnR mij c`xwZ DwťMťbi tP0v Kti tQb| Zwi GB DwťMťeb mdj ntj tKvť c0Pťbi Dcv`vb Ges GB mg`Đcv`vb tťť½ hť_0 cwi gvb B_vbj`Zix tZ mřlg DwťMťmgn LjR tei Kiv mnR nte| we`Zwi Z: http://www.ameslab.gov/final/News/2007re1/Raman_imaging.thml

DwťMť wRGg Dcv`vbt weKí c`xwZ DwťMťeb

wbD Rvmm0ekwe`vj tqi we`Avbxi v DwťMť tKšj Zwi E tK Dcv`vbt GKwJ mnR Ges weKí c`xwZ Awwe0xi Kti tQb| GB c`xwZ tZ DwťMť i wDwKevťmi cwi etZ`cwi0ťW tKšj Zwi E tK Dcv`vb Abg0ek Kiti ZvťZ Kti wRb Gť`c (Gene Scape) Gi cwi gvb Ktg hvq| we`Zwi Z: [Email: blumberg@ur.rutgers.edu](mailto:blumberg@ur.rutgers.edu)

`y Ges evtqvťtaj DcRvZ t_ťK tťvR` Films Gi bKkv c0Z0

hř i vťoť Agricultural Research Service (ARS) bvgK c0Z0vb Mtel Yvi gva`tg LjR tei Kti tQ th`i agvť tWqix c0mmsB bq eis evtqvťtaj`Zixi dtj DwťMť DcRvZmgn t_ťKl *Biodegradable protective* wdj ř`Zix Kiv m0e| cwi b c0Zti vaK wdj ř`y t0mub tebwrB, cwib, wMvi j Ges evtqvťtaj t_ťK c0B DcRvZ t_ťK`Zix Kiv ntqťQ| ZxeZi i mvqvibK Dcv`vb ev GmťWi cwi etZ`y t_ťK`y t0mub Avj v`v Kiv m0e| Kve0 WvB A`vBW e`envťi dtj`Zix wdj řmgn AnaKZi cwi b c0Zti vaK Ges Biodegradable nq| we`Zwi Z: <http://www.ars.usda.gov/News/docs.htm?docid=1261>

EPA Bollgard II Zj vi Rb` non-cotton refuge approve Kti tQ

hř i vťoť Environmental Protection Agency (EPA) Monsanto`i Bollgard II Zj vi Rb` GKwJ c0kwxZK refuge option LjR tei Kti tQ| Zj v Drcv`bKvixMY Zj vi RvZ einfZ km` Ges Avi l Ab`vb` DwťMťe`envi Kiti Zv Zj vi tcvKvgtkoi Avk0`j wntmte KivR Kti dtj Bollgard II Zj vi Rb` non-bt cotton refuge Gi c0qvRb coťe bv| we`Zwi Z: <http://monsanto.mediaroom.com/index.php?s=43&item=495>

`vov`vi kťm`i tMvej Pwin`v wgvťZ Wg0 c0hvi

wbDBqťK GKwJ mv0c0ZK Kbdvťi tY Wg0 Gi Crop Genetics Research & Develop Gi fivBm`ť0mťW0 William S. Niebur etj tQb th, GB c0Z0vťbi c0hvi mgn`vov`vi kťm`i tMvej Pwin`v c`ťb mePvBťZ mivmq řwgKv cvj t0 mřlg| we`Zwi Z: <http://www.pioneer.com/web/site/portal/menuitem.8ff75ac1f33ef1cfa3869fd2d1009a0>

GwKqv l c0hvi řmMi xq

Pťbi we`Avbxi`i wRb Abg0vťbi Rb` QTL Mapping c`xwZi Awwe0xi

wKQyKQyRilj`wek0`thgb Drcv`b ewx, Liv m0n0Zv BZ`wi i třťi c0Pj Z (Classical Mendelian Rules) weťwS c`xwZ tZ weťkl DcKvi cvl qv hvq bv| GB Amv0av`řxi Kiti Rb` Pťbi tKšj we`Avb Jiaukang Wang Ges Zvi mnKgřv QTL Gi Rb` bZb Mapping c`xwZ Ges mdUl qvi DwťMťeb Kti tQb| we`Zwi Z: <http://www.cimmyt.org/english/wps/news/2007/may/genefinders.htm>

eb` RvťZi AvL wgvťKiti Rb` MpxZ weťwS t0m0g

At0ř qv eZ0vťb Pťb Drcw`Z tKvb AvL hv wZbw eb` RvťZi AvťLi mvt`řfweK AvťLi mťmi dtj Drcw`Z ntqťQ tm_tj v cvl qv hť`Q| At0ř qv DbZ AvL weťwS t0m0gi Dr. Philip Jackson bvtgi Ab`Zg c0vb Mtel K etj tQb Avgiv tKvb Ges At0ř qv Drcw`Z mťeřK0 AvťLi gta` mťmi Kihřlg AvMvix 1 gťmi gta` m0ente| we`Zwi Z: <http://www.csiro.au/news/WildRelativesForSugarcane.html>

Mekong Delta G Rice Virus řiM`gťbi mgvavb

wřťqZbvťgi tgwKs tW0vťZ avb Drcv`b gvivZřK řiwZM0`řq hLb Broutn Plauthopper (BPH) fivBivťmi Avmvgb t`Kv hvq| GB fivBivťmi Avmvgb Pxb, tKwi qv Ges Rvčvťb l e`vcKfvťe j ř Kiv hvq| wřťqZbvť Ges Bwi (IRRI) Mtel KMY Australian Centre for International Agricultural Research (ACIAR) Gi mňťwMZvq GKwJ AvU gvm tgqv`x we.GBP.wc/fivBivťm Gi mgm`v mgvavťb GKwJ BwUťM0UW g`vťbRtg0U c`xwZ Dbqťbi c0Kí nvťZ wbtqťQ| we`Zwi Z: <http://bulletin.irri.cgiar.org/bulletin/2007.22/default.asp>

Regulatory Awdm KZR WRGg Zj vi SIK chij vPbv

Atofij qvi Office of the Gene Technology Regulator” eZgib Deltapine Australia Ply Ltd Gi t^Ovq cwi tetk WRGg Zj vi e`envti i Rb` th Avte`b Kti tqo tmUv chfe`Y Kiti qo| GB Avte`bcft` mwgZ AvKvfi Ges wbcwSZ Dcvtq mteP Pvi wU Insect Resistant & Insect Resistant/herbicide tolerant GM Zj vi j vBb wZb eQti i (2007-2010) Rb` e`envti i Avte`b Kiv nti qo| we`Zwi Z: <http://www.ogtr.gov.au> or <http://www.ogtr.gov.au/rtf/ir/dir073notifcon.rtf> or Email: ogtr@health.gov.au.

BDti vc

EU Atofij qv t`tk GM Carnations DtbwPb

Florigene bvgK GKwU Atofij qvb cOZObv Meta Genetics Modification Gi gva`tg dy Drcv`b Kti tmUv BDti vcxqvb BDwqvb KZR`k eQti i Rb` KvU dqvvi wntmte WRGg KvfbRvb evRvi RvZ Kivi OvocT tctqto| we`Zwi Z: <http://www.gmo-compass.org/eng/news/messages/200706.docu.html#124>.

Exeter Gi weAvbMY WRGg um ci vMvqbi t`qit` evZvmi fvgKv chij vPbv Kiti qob

Exeter wekte`ij tqi School of Bio-sciences Gi GKwU Mtel Yv`j WRGg Ges Conventional ktm`i gta` um-ci vMvqb c`wZ chfe` yI GKwU KvRix bZb c`wZi mgwvi k Kiti qob| GB c`wZiZ evZvmi MwZem Gi w`K wePbvceR evZvmi ci vMti bji Pj vtdiv chfe`Y Kiv nti`Q| we`Zwi Z: <http://www.oxeter.ac.uk/news/newscrop.shtml>.

Rvgfibt wecj cwi gvY WRGg Avj yvqvtj i Rb` AbgwiZ

German Federal Office of Consumer Protection and Food Safety (BVL) wecj cwi gvb RvgtZ (cOq 155 tn±i) “Amflora” bvgK WRGg Avi Field Trial Gi Rb` AbgwiZ cOvb Kiti qo| we`Zwi Z: <http://www.gmo-compass.org/eng/news/messages/200706.docu.html#123>.

Mtel Yv

CRY6A avi YKZ weU UtgtUv Rootknot tbgvtUw cOZti vax

UvYtRwbK UtgtUv th`tj vi gta` Modified Bt Cry6A gene Avto tm`tj vi t`qit` t`Lv tmtQ th Zviv Root-knot nematode, *Meloidogyne incognita* Gi t`qit` AwkZi Resistant | we`Zwi Z: <http://www.blackwell-synergy.com/doi/abs/10.1111/j.147-7652.2007.00257.x>.

CBF gene avi YKvi x tctc kvZ cOZti vax

tctc ei d mn` Ki tZ cvfi bv Ges mve-UicK`ij AA`ij Kg Zvcgv`vi Kvi tb Gi Drcv`b e`nZ nq| km` wK fite kvZ mnn`ozntZ cvfi tm Dcvq m`utK`avi Yv wbtZ cvfi tj km` weWvi iv mntRB Kg Zvcgv`v mn``qg RvZ Awe`xi Ki tZ cvfi te| h`y i vtof` tdwii Wv wekte`ij tqi Mtel KMY tRtbiUK Bw`wbcwsi Ges tRtbiwgK GtcO (Approach) e`envi Kti t`tLtoB th, Gi vevtqWcwmim (Arabiodopsis) t`tk cOv wRb tctci gta` kvZ mn` Kivi` qgZv AvbtZ cvfi wKbv| we`Zwi Z: <http://www.sringerlink.com/content/dv0672p947268724/>.

MvQ Trehalose e`envi m`utK`Review Kiv nti qo

Trehalose GK ai tbi wPbv hv Dw`c Ges cOYx tKv tK i`@ntq hvl hv t`tk cOZti va Kti | Dw`c Mtel Yv Kti t`Lv tmtQ GUV Abiotic Stress ev Liv Ges j ebv`3 Zv mn` Kivi l` qgZv ew`x Kti` v`K| BDti vti Mtel KMY etj`toB th, tRtbiUK Bw`wbcwsi c`wZiZ Dw`c Trehalose cOqvm Kti Liv Ges j ebv`3 Zv mnn`ozntZ Mto tZjv v m`e| we`Zwi Z: <http://www.springerlink.com/content/rgp1v952161h75g>

ISAAA (International Service for the Acquisition of Agri-biotech Applications)

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www.bdbic.org: esj`vi` ketqitUKtbiy wR`Z`tk` KZR`mKij i e`envti i Rb` l`tqe
www.isaaa.org: ISAAA m`utK`mKj`Z` , Crop Biotech Update: etqitUK clmtj i nek`pwi`wZi l`tqe
www.agbios.com: Kal etqitUKtbiy wR` l`tqe, wDRtj` Utvi esj`vi` tki Rb` c`K`tmKkb i tqtO
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info@isaaa.org: ISAAA tht`Kib`Z`_evc`Kivbri Rb`