



# entqvtUK dmtj i eZgub Ae-v

ISAAA Gi "dmj `Re chyp i nek/Avb tk>` a KZR i PZ Dbqbkxj t tki Kul-%Re chyp Dmtebi nek/cwi wZi mvi vsk|

GrCj 12, 2007

## G msL`vi wkfi vbg

<b>Lei</b>	<b>nek </b> - avbi `vbvq AvKvi Ges l Rb wRb 0vi v bqsZ mbv <sup>3</sup> Ki Y - Smallpox f'vKmb `Zwi tZ ifcvsmi-Z Dmtebi e`envi	- tKfi vcv0 `vbvst-Gi gva`tg entqvtUK ktm`i `Re vbi vcvEvi Dbqb
<b>Avtgvi Kv</b>	- f'ie l`Z m`ebvgg Ryj vbx km`	
<b>BDtivc</b>	- dvtYi K.I.Kiv tenk tek entqvtUK KYRbvt`0 - mRie Guc:KU Ges tUovLqvi Rb`%Re chyp i e`envi	- Bim Rie chyp Ges Rie neAvbi Dci neifbqKstj i cfi vevb
<b>Mtel Yv</b>	- B.UfRbK evnKGi gva`tg wWGbG e`Zx wRb `vbvst- - wRGG Ges c0nj Z Mtgi RvZ Avmtj B wK wfb0	- Bt Cry3A Avj yocKvixwLj Gi Rb` qjwZKi bq
<b>neAvB</b>	- nekpe`vix `Rechyp i eZgub Ae-vi Dcvq mte`j b i wKqvc	- evsj vt tki neAvb l Kul gSvjy tq `Rechyp M0b Kivi Amerb

## Lei

### nek|

avbi `vbvq Ges nRb wRb 0vi v bqsZ mbv<sup>3</sup> Ki b

cl0mi Hongxuan Gi tbZtZj GK`j neAvbx hviv National Key Laboratory of Plant Molecular Genetics Shanghai Institute of Plant Phyridoxy and Ecology Pxb KvR Ktib, Zviv mdj Zvi mvt\_ GW2 wRb Gi QvP `Zwi Ki tZ m`qjg ntqtQb hv avbi `vbvi AvKvi l Dm v bqsZ Kti | th mg`-avb MvtQ KvRKi GW2 wRb Abgym`Z tm mg`-avb MvtQ GB wRb `vbvst-Gi gva`tg Zvt i `vbvi AvKvi eo Kitz mrvh` Kti tQ Ges hvi gva`tg AtbK Zl `Zix nq dtj avbi dj b evto | ne`Zwi Z: <http://english.cas.ac.cn/eng2003//news/detailnewsb.asp?InfoNo=26498>

### tKfi vcv0 `vbvst-Gi gva`tg entqvtUK ktm`i `Re vbi vcvEvi Dbqb

eskvby`tg tKfi vcv0 (GKwU Dcv`vb hv mvtj vK mstkl`b i Rb` `vqx) tenki f'vM MvtQ `vbvst-nq gvZer m`utKp gva`tg | Kvi Y GB Dcv`vb ci wMti byj gva`tg evmZ nq bv | qjZvi mvt\_ GB tKfi vcv0 tRtbvg e`envti i gva`tg ktm`i Dbqtb GKwU gj`evb Dcv`vb intmte metepbv Kiv nq hv UYwRb Gi Dbqtb i Rb` Ges ifcvsmi-Z MvtQi `Re vbi vcvEvi c`tk Avi l ZjivwS Z Kti | ne`Zwi Z: <http://www.mpg.de/bilderBerichteDokumente/dokumentation/pressemitteilungen/2007/pressemitteilung200704111/index.html>

### Smallpox f'vKmb `Zwi tZ ifcvsmi-Z Dmtebi e`envi

Avtgvi Kv Philadelphia-tZ Aew`Z Dthomas Jefferson University Gi GK`j neAvbx hviv Biotechnology Foundation Laboratories-tZ KvR Ktib Zviv GK mgx`lvq etj tQb th, ifcvsmi-Z ZvgvK MvQ t`tk mdj Zvi mvt\_ smallpox Gi f'vKmb `Zwi tZ m`qjg ntqtQb hv B`y Ges tQvu tQvu`i Ki G mdj Zvi mvt\_ Zv c0qvM Kti tQb | Variola virus GB smallpox Gi gj` Dcv`vb hv gvby`i gZi chS`-MuvZ cvti | ne`Zwi Z: <http://www.pnas.org/cgi/content/abstract/0701451104v1?maxtosow=&HITS=10&hits=10&RESULTFORMAT=&fulltext=Koprowski&searchid=1&FIRSTINDEX=0&resourceType=HWCIT>

### Avtgvi Kv

f'ie l`Z m`ebvgg Ryj vbx km`

f'ie l`Z m`ebvgg Ryj vbx km`0 thgb tmj tj wmk entqvgm mBP Nvm, Avj dv-Avj dv, wv W K'vbi x Nvm Ges nvBew tcvj vi BZ`w` hv M0b nvDR M'vm wM0b KgvZ cvti | Colorado State University, c0KwZK m`u` ev`ne`v Mtel YvMvi Ges Avtgvi Kv Kul nefvtMi Mtel Kiv M0b nvDR M'vm wM0b KgvZ wbi j m KvR Kti hv`0 | Zviv RxbPm Ges DAYCENT Biochemistry Model wtkLY Kti t`tL0b th, tmj tj wmk entqvgm M0b nvDR M'vm wM0b 115 f'vM chS`-KgvZ cvti | wKs`bb-tmj tj wmk entqvgm tKej gvT 40 f'vM M0b nvDR M'vm wM0b KgvZ cvti | ne`Zwi Z: <http://www.isaaa.org/kc/cropbiotechupdate/news/2007/04//12.html>

### BDtivc

dvtYi K.I.Kiv tenk tek entqvtUK KYRbvt`0

Avtgvi Kv Kul nefvM GK mgx`lvq t`tL0b th, dvtYi K.I.Kiv 2006 mvtj entqvtUK KYAvev` Kti wQj 5200 tn`i RigtZ hv 2007 mvtj ewx tctq 30,000-50,000 tn`ti cwi bZ Kivi Avkvev` e`<sup>3</sup> Kti tQ | dvtYi K.I.Kiv th entqvtUK KYD`m`eb Kti tQ Zv D`P dj bkj Ges Kg cwi gvby`KvUw b avi b Kti hv MZvbywZK KY`\_tk fvj | ne`Zwi Z: <http://www.fas.usda.gov/gainfiles/200703/146280665.pdf>

### Bim Rxe chny Ges Rxe weAvbi Dci wefbaKSkj i coveb

BDti vxcqvb Kugkb (Bim) wbi Z Kti tQ th, Rxe weAvb I Re chny i Avb Zvt i BDti vxcqvb wkt i mnb kj Zv Ges Zvt i Rxe hvi vi gvbK mglyz Ki tZ i ZcY FigKv cvj b Ki tQ | BDti vxcqvb Kugkb Zvt i Kul tZ AvaybK Rechy Avbi Ae vbtK wbi Z Kti tQ |

### mRxe GucKU Ges tUwUqvi Gi Rb Rechy i envi

t ubi Molecular Biology Institute Gi weAvbxiv Dbz v Ges MtUi Rb Apricots Dm Deb Kti tQ | Apricots Gi GB Dbz v i Rb GKwU Dvqx e vqx tmUv nj S-Linalool | t ubi Luis Antorio Canas Gi Mtel Kiv evtqv UK Apricots RvZ Dm Deb Kti tQ hvi dj Drcv tbi Rb Kg mgq j vM | GB cxwZ mdj Zvi mvt tj eyRvZxq MvtQ e envi Kti tQ | we Zwi Z: <http://www.fundacion-antama.org/imgNews/01-04-07.htm>

## Mtel Yv

### BbUfRwbK evntKi gva tg wWGbG e wZZ wRb vbovi

BbUfRwbK evnKiv nj KvhZ wefbaevntKi gta mgZj Dcv vb hv wRb cKSkj e envi Kiv nq | GB t j vK BbUfRwbK ej v nq | GB Rb th Zviv GKwU mbov ktm i Dcti i wRtbvg t tK GtmQ | GB tKSkj Uv dti b wW.Gb.G. vbovi Gi gZ bq | evcvi Uv nj GKB cRwZi MtQi gta wWm vbovi Kiv hvi dtj tKvb ai tbi wRgG weZtKp mvo nq bv th GB wRgG Ab tKvb cRwZ t tK tbqv ntqtQ | Fij gvtbi RvZtK Avti v Fij Kiv hvq GB evnK cxwZ e envti i gva tg Ges gvij Kj vi evtqv wR Ges Dm t i fcvsh i t t nBv GKwU Fij hSjntmte KvR Kti - G K v etj tQb Anthony Conner Ges Zvi wDwRj vU I t b vij vtUi mnKgfv | we Zwi Z: <http://www.spfingerlink.com/content/98314q74w8338t48/>.

### Bt Cry3A Avj yCkviwUj Gi Rb wZKi bq

Cry3A ifcvsh Z Avj yj wWew Ges Kivi weW wUj tcvKvi Rb wZKi bq hw I Zviv wZKvi K tcvKvi t j Ae vb Kti | h v i vRi GK j Mtel Kiv etj tQb th, Endotoxin tKvb wZ Ki tZ cvt bv | thgb Zvt i wUk vKv ev Zvt i mg kxti i I Rbi Dcti i A ev Rbb Atzi MVtbi Dci tKvb ai tbi wZKvi K cive cto bv | t j wWewUj nj mvevfvMx nweWwv hvi v Avj y bZb dtj i cvZvi Wwv Lvq | we Zwi Z: <http://www.springerlink.com/content/08251h6271515775>

### wRgG Ges cUj Z Mtgi RvZ Avntj B wfb

AvaybK Omics wekt kb Kti t Lv tMtQ th, ifcvsh Z Mtgi RvZ Zix Kiv mve hv AtbKvstK Ai fcvsh Z wRgG Mtgi mvt mgZj GK v etj tQb h v i vRi Rothamsted Mtel bv cUzvtbi GK j Mtel K | Zvt i Mtel Yv GB Z cUvb Kti th, ifcvsh Z km eskvbytg wbi v h v fcvsh vMbtK th tKvb Snt t tK i wZ Kti | Gt i gta chv mgZv webtqi Rb Zvt i Dcv vb Ges KuzZj ifcvsh Z I cUj Z Mtgi Rvtzi gta Zj bv Kiv cUqvRb | we Zwi Z: <http://dx.doi.org/10.1016/j.tifs.2006.12.010>

## tNv Yv

### wekv vcx Rechy i eZgvb Ae vi Dci mtsj b iwkvq

International Service for the Acquisition of Agri-biotech Applications (ISAAA) Oviv wek v vcx emwYwR K wRgG ktm i eZgvb Ae v vbtg th Kvhbevx mivsk cKvk Kiv ntqtQ Zv eZgvb iwkvq Abj vbtb cvl qv hv tQ | we Zwi Z: <http://www.isaaa.org/resources/publications/briefs/35/executivesummary/pdf/Brief%2035%20-%20Executive%20Summary%20-%20Russain.pdf>

### evsj vt tki weAvb I Kul gSlyj tq Re chny MAb Kivi Avnevb

weAvb Z Ges thwMthM chny gSlyj tqi Dcti ov Mr Tapan Chowdhury Ges Kul gSlyj tqi Dcti ov Dr CS Karim Gi tbZtZivKvtZ th mtsj b AbvZ ntqtQ ZvtZ ej v ntqtQ Rechy MAb Kivi Rb Ges hvi wktv vbg t I qv ntqtQj Rechy i Dvqb evsj vt tki: RvZxq I AvSRwZK chvqQ wefbaevntj K Ges cBtFU tm t tK th mg AskMabKvixiv GB mtsj t AskMab Kti tQj Zviv etj tQ th t tki Kul, wki Ges JI a Zixi Rb Rechy GKwU i ZcY v l qvntmte mvoq FigKv cvj t mg tte | we Zwi Z: Email: [nasirbiotech@yahoo.com](mailto:nasirbiotech@yahoo.com)

### ISAAA ( International Service for the Acquisiti on of Agri-biotech Applications)

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- [www.agbios.com](http://www.agbios.com): Kul evtqv UK tbi wR I tpe, wDRtj Uv i evsj vt tki Rb c KtmKkb i tqtQ
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