

Rindermägen helfen beim Plastikabbau

Neue Ergebnisse einer Forschergruppe des Austrian Centre of Industrial Biotechnology (acib) und der BOKU Wien zeigen, dass Bakterien aus Kuhmägen verwendet werden können, um Polyestersorten abzubauen, aus denen u.a. Textilien, Verpackungen und kompostierbare Plastiksackerl gemacht sind.



Am 4.10 ist der Welttierschutztag.

± '9i fcdU'ZÀ``h']a a Yfa Y\f'D`Ugh]_a Ø```Ub"'A]hh`Yfk Y]`Y'VYZ]bXYb g]W\'_bUdd'&* 'A]``]cbYb'HcbbYb'Ub'A Ø```fGhUbX'&\$%- Ł']b'i bgYfYf I a k Y`h'i bX'i bgYfYb'K Y`ha YYfYbž'k cj cb'n]f_U'%) 'DfcnYbh Dc`mYghYf'Ui ga UW\Yb"'8]Y'6Yk i gghgY]bgV]`Xi b[']b'XYf 6Yj Ò`_Yfi b['i bX'ghUUh`]W\Y'JYfVchY'j cb'D`Ugh]_Y]bk Y[Ufh]_Y`b hfY]VYb'9bhk]W_`i b[Yb'j cfUbž'X]YgYa 'DfcV`Ya 'Xi fW\'FYWhW]b[i bX'K]YXYfj Yfk Yfhi b['j cb'D`Ugh]_'j cfni VYi [Yb"'≯XcW\'g]bX j]Y`Y'[Àb[][Y'@Ògi b[Yb'YbYf[]Y]bhYbg]j ž'Ui Z[fi bX'XYg'9]bgUhnYg hcl]gW\Yf'7\Ya]Y'k Yb]['bUW\\U`h]['i bX'b]W\h']b'XYf'@U[YžYhk UD`Ugh]_'Ui g'; Ya]gW\hUVZU``ghfÒa Yb'UVni VUi Yb"

D`Ugh]__']gh`nk Uf`gWk Yf`Ui Zni gdU`hYbž'[`Y]Wk h`UVYf`]b`gY]bYa
5i ZVUi ']b'j]Y`Yf`Y]'<]bg]Wk h`XYa '5i ZVUi 'bUhØf`]Wk Yf`Dc`mYghYf`k]Y
7i h]bžY]bYf`XYf`<Ui dh_ca dcbYbhYb`XYf`DZUbnYbnY``Y"'7i h]b
_Ubb`n"6"']a '?ca dcgh\Ui ZYb`[YZ] bXYb`k YfXYbž'k c`Yg'j cb
bUhØf`]Wk Yb`9bnma Yb`UV[YVUi h`k]fX"'8 Ug`\Uhii bg`Ui Z'X]Y`=XYY
[YVfUWk hž'Ui Wk`Ub`UbXYfYb`CfhYb`bUWk`9bnma Yb`ni 'gi WkYb ž
Yf_`Àfh`8 cf]g`F]V]hgWk ž`GYb]cf`FYgYUfWkYf]b`Ua 'UW]V`i bX
: cfgWkYf]b`Ua '=bgh]hi h`ZØf`I a k Y`hV]chYWk bc`c[]Y`Ub`XYf`6C?I
K]Yb"'8 U'XUg': i hhYf'j cb`?Ø\Yb`VYfY]hg`bUhØf`]WkY
DZUbnYbdc`mYghYf`Ybh\À`hž'X]Y`]a 'F]bXYfdUbgYbž'Y]bYa 'HY]``XYg
?i \a U[Ybgž'Xi fWk`X]Y`Fi a YbZØgg][_Y]h`Ui Z[YgdU`hYb`i bX
j YfXUi h`k]fXž`k U[hYb`X]Y`: cfgWkYfY]bYb`[YbUi YfYb'6`]W_`]b`X]Y
a]_fcV]Y``Y`Ni gUa a YbgYhni b['XYf`Fi a YbZØgg][_Y]h` 'i bX
k i fXYb`ZØbX]["

FYWmW]b[''Jca'DZ'UbnYbdc`ma Yf'ni a \UbXY`gØV`]WXYb'D`Ugh]_

a 'DUbgYb!FYh]W' `i a '`YVh'Y]bY'f]Yg][Y'a]_fcV]Y``Y

; Ya Y]bgW\UZhz\X]Y'ZØf'X]Y'JYfXUi i b['XYf'BU\fi b[']b'XYb'H]YfYb

j YfUbhk cfh`]W\']gh"'8U\Yf'j Yfa i hYhYb'k]fz\XUgg'Y]b][Y'V]c`c[]gW\Y

5_h]j]hÀhYb'Ui W\'ZØf'X]Y'<mXfc`mgY'j cb'D`Ug]h_gcfhYb'[Ybi hnh

k YfXYb'_ObbhYb z'VYgW\fY]Vh'F]V]hgW\'YbY'Ybnma Uh]gW\Y

FYU_h]cbz\X]Y'ZØf'X]Y'NYfgYhni b['j cb'D`Ugh]_']b'gY]bY

i fgdfØb[`]W\Yb'6Ui ghY]bY' 'A cbca YfY'i bX'C`][ca YfY'

j YfUbhk cfh`]W\']gh"'A]h'X]YgYb'6Ui ghY]bYb'_ObbYb']b': c`[Y

Ybhk YXYf'bYi Y'Dc`ma YfY'cXYf'_ca d`Yhh'UbXYfY'A c`Y_Ø`Y

\Yf[YghY``h'k YfXYb"</pre>

8fY] 5fhYb j cb Dc ma YfYb i bhYfgi W h

8 UVY]'i bhYfgi WkhYb'X]Y': cfgWkYf'XfY]'5fhYb'j cb'Dc`mYghYfb.'8Yf Y]bYž'U``[Ya Y]b'U`g'D9H'VY_Ubbhž']gh'Y]b'gmbh\Yh]gWkYg'Dc`ma Yfž XUg'\Ài Z][']b'HYI h]`]Yb'i bX'J YfdUW_i b[Yb'j Yfk YbXYh'k]fX"'6Y] XYb'VY]XYb'UbXYfYb'\UbXY`hY'Yg'g]Wk'i a 'Y]bYb'V]c`c[]gWk UVVUi VUfYb'?i bghghc ZZž'XYf'\Ài Z][']b'_ca dcgh]YfVUfYb D`Ugh]_hØhYb'j Yfk YbXYh'k]fX'fD65HŁž'i bX'i a 'Y]b'V]cVUg]YfhYg Ni f; Yk]bbi b['XYf'ni 'hYghYbXYb'A]_fccf[Ub]ga Yb'k i fXY
DUbgYbZØgg][_Y]h'Ui g'Y]bYa 'ÒghYffY]WX]gWXYb'GWX`UWXh\cZ
[Yk cbbYb"'5bgWX`]Y» Yb'VfUWXhYb'X]Y': cfgWXYf'X]YgY': `Øgg][_Y]h
a]h'XYb'XfY]'[YhYghYhYb'?i bghghcZZUfhYb']b'6YfØ\fi b[ži a 'ni
Yfa]hhY`bž'k]Y'YZZY_h]j 'XYf'?i bghghcZZ'UV[YVUi h'k YfXYb'_Ubb"'8]Y
VU\bVfYWXYbXYb'9f[YVb]ggYž'X]Y'_Øfn`]WX']b'XYf'Ub[YgY\YbYb
NY]hgWXf]Zh': fcbh]Yfg']b'6]cYb[]bYYf]b['UbX'6]chYWXbc`c[m
j YfÒZZYbh`]WXh'k i fXYbž'nY][Ybž'XUgg'U``Y'XfY]'?i bghghcZZY'j cb'XYb
A]_fccf[Ub]ga Yb'Ui g'?i \a À[Yb'UV[YVUi h'k YfXYb'_ObbYb"

a JYf[`Y]WX ni 'À\b`]WXYb: cfgWXi b[gUfVY]hYbžVY]'XYbYb'a Y]gh
Y]bnY`bY'A]_fccf[Ub]ga Yb'i bhYfgi WXh'k i fXYbžghY``hYb'F]V]hgWX
i bX']\fY'?c``Y[Yb'ZYghžXUgg'X]Y'DUbgYbZØgg][_Y]h'YZZY_h]j Yf'k Ufž
k Ug'XUfUi Z'\]bXYi hYb'_ObbhYžXUgg'X]Y'a]_fcV]Y``Y'; Ya Y]bgWXUZh
Y]bYb'gmbYf[]gh]gWXYb'JcfhY]``\Uh"'F]V]hgWX. → XYf'BUhi f'k YfXYb
_ca d`Yl Y'Ac`Y_Ø`Y'k]Y'@][b]bž'Y]b'6YghUbXhY]`'j cb'<c`nž'Xi fWX
9bnma _Ug_UXYb'UV[YVUi hž'Y]bYf'Ni gUa a YbUfVY]h'a Y\fYfYf
A]_fccf[Ub]ga Yb'''K]f'[Y\Yb'XUj cb'Ui gž'XUgg'Yg'Ui WX'Y]b
Ni gUa a Ybgd]Y`'a Y\fYfYf'Ui g'XYa'F]bXYfdUbgYb']gc`]YfhYf
9bnma Y'VfUi WXYb'k]fXž'i a 'Y]bYb'; YgUa hUVVUi 'j cb'Dc`mYghYf
ni '[YkÀ\f`Y]ghYb"

BYi Yf'DfcnYgg'Zi b_h]cb]Yfhž'k Y]hYfY Dfc^Y_hY'YfZcfXYf`]WX

8]Y:cfgWkib[gYf[YVb]ggY:Vf]b[Yb:Y]bYfgY]hg:@]Wkhi]bia]_fcV]Y``Y; Ya Y]bgWkUZhYbžiX]Y:g]Wki]bbYf\U`V'XYffFiaYbZØgg][_Y]hi]aF]bXYfdUbgYb'VYZ]bXYbiibX'\]bg]Wkhi]WkiD`Ugh]_UVVUiikYb][YfZcfgWkhikUfYb":5bXYfYfgY]hg'_ÒbbhYb'X]Y:cfgWkib[gYf_Ybbhb]ggY'Y]bY'bUWk\U`h][Y'Cdh]cbinif
JYff]b[Yfib[ijcb'D`Ugh]_a Ø```XUfghY``Yb"

8]Y: cfgWki b[gUfVY]hYb'k i fXYb'V]g'XUhc']a '@UVcfa U» ghUV Xi fWk[YZØ\fh" 5i Z[fi bX'XYf'[fc» Yb'A Yb[Yb'Ub'DUbgYbž'X]Y hÀ[`]Wk']b'GWk`UWkh\ÒZYb'UbZU``Ybž'k ÀfY'Y]bY'<cWkg_U`]Yfi b[`Y]Wkh'j cfghY``VUf ž'q]Y\h'F]V]hgWk'XYb'DfcnYgg'Ui Wk'U`q']bXi ghf]Y`` i a gYmvUf"F]V]hgW. []Vh'YXcW. 'ni 'VYXYb_Ybž'XUgg'Yg'bcW. 'Y]b
`Ab[YfYf'K Y['jcb'XYf'Fi a YbZØgg][_Y]h'ni '[fc»]bXi ghf]Y``Ya
D`Ugh]_UVVUi 'gY]b'k]fX"'BcW. 'g]bX'a]_fcV]Y``Y'; Ya Y]bgWXUZhYb
U`g'dchYbn]Y``Y'i a k Y`hZfYi bX`]WXY'FYggci fW' 'XYg
D`Ugh]_fYWmW]b[g'bÀa`]WX 'bcWX'ni 'k Yb]['YfZcfgWX h"' K]f'a ØggYb
]b'k Y]hYfYb'DfcY_hYb'X]Y'9bnma Y'Ui Z']\fY'5_h]j]hÀh'i bX
GdYn]Z]hÀh'\]b'i bhYfgi WXYb. 'K Ubb'i bX'i bhYf'k Y`WXYb
6YX]b[i b[Yb'g]bX'X]Y'9bnma Y'U_h]j 3'K Y`WXYg'9bnma [Ya]gWX
UfVY]hYh'Ua 'YZZ]n]YbhYghYb3 ž'j YffAh'F]V]hgWX"'8 Ugg'XYf'DfcnYgg
YXcWX'Zi b_h]cb]Yfh'i bX'XUa]h'Y]b'bYi Yf'K Y[']a 'D`Ugh]_fYWmW]b[
VYgWXf]hhYb'k YfXYb'_ObbhYž'\UVYb'X]Y'UW]V!'i bX'6C?I!: cfgWXYf
VYfY]hg'VYk]YgYb"

<]Yf'[Y\h'Yg'ni f'Cf][]bU'di V`]_Uh]cb''</pre>

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z. 'Z`Y]gWX i b X Wc "Uh