

Können Nutztiere das Corona-Virus weiterverbreiten?

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8]Y'JYfi bg]WXYfi b[']gh'[fc»''i bX'a UWXh'Ui WX'j cf'XYb'GhÀ``Yb i bgYfYf'Bi hnh]YfY'b]WXh'\U`h"'?ÒbbYb'Bi hn!'i bX'<Ui gh]YfY'[Uf'XUg U_hi Y``Y'7cfcbU!J]fi g'ØVYfhfU[Yb3'K]f'\UVYb'VY]'nk Y]'H]YfÀfnhYb bUWX[YZfU[h.'H]YfÀfnhY_Ua a Yf!DfÀg]XYbh'A U["'?i fh': fØ\k]fh\ž

XYf'a]h'U``Yb']bhYfbUh]cbU`Yb'?c``Y[Yb']a 'fY[Yb'5i ghUi gW\fi bX i a '7cfcbU'i bX'G5FG!7cJ!&'ghY\h'i bX'VY]'8f"'DYhfU'K Y]Yfa UmYfž X]Y'U`g'DfÀg]XYbh]b'XYf'²; J < 'i bX'@Y]hYf]b'XYf'GY_h]cb': cfgW\i b[j cb'K]gg< ca 'X]Y': cfgW\i b[gYf[YVb]ggY'i bX'9a dZY\`i b[Yb i "U"'j cb'XYf'K Y`hh]Yf[Ygi bX\Y]hgcf[Ub]gUh]cb'fC =9\text{tz}j cb'XYf' 5; 9Gz'j ca ': f]YXf]W\!@OZZ`Yf'=bgh]hi hz'j cb'9787'f9i fcdYUb 7YbhfY'Zcf'8]gYUgY'DfYj Ybh]cb'UbX'7cbhfc`t'_Ybbh"

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;]Vh'Yg'VY]'<Ui g!'i bX'Bi hnh]YfYb'UbXYfY 7cfcbUj]fYb3

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8f"DYhfU'K Y]Yfa UmYf. 7cfcbUj]fYb[]Vh'YgVY]'j YfgWX]YXYbYb
H]YfUfhYb"'6Y]gd]Y`gk Y]gYhf]hhVY]'GWXk Y]bYb'X]Y'Yd]ncch]gWXY
J]fi gX]Uff\cYUi Z'cXYf'_UbbVY]'? UhnYb'X]Y': Y`]bY'\dangle ZY_h]cgY
DYf]hcb]h]g'Ui g[Y`Ògh'k YfXYb"'8]YgY'9ffY[Yf'g]bX_`Uf'j cb'G5FG!
7cJ!&'ni 'i bhYfgWXY]XYbZ'XU'g]YZi f'XYb'A YbgWXYb'_Y]bY'; YZU\f
XUfghY``Yb"

G5FG!7cJ!&kc\Yf_caahYg3

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8f"'DYhfu'K Y]Yfa UmYf.' A c`Y_i `UfV]c`c[]gWXY
I bhYfgi WXi b[Yb`UggYb'j Yfa i hYbžXUgg'Yb['j Yfk UbXhY'J]fYb'VY]
VYgh]a a hYb': `YXYfa Ui gYb'j cf_ca a Yb"'8]YbÀWXghj Yfk UbXhYb
7cfcbUj]fYb'g]bX'XUg'G5FG!7cJž'XUgYfgha U`g'&\$\$'
Ui Z[YhfYhYb]gh'i bX'XYggYb'FYgYfj c]fk]fh `YXYfa Ui gYg]bX'i bXXUg
A 9FG!7cJž'XUgYfgha U`g'&\$%&'Ui Z'XYf'UfUV]gWXYb'<U`V]bgY`
bUWX[Yk]YgYbk i fXY'i bX'XYggYbbUhi f`]WXY'K]fhY'8fca YXUfY
g]bX"5``Y'XfY]žG5FG!7cJž'G5FG!7cj!&'i bX'A 9FG!7cJ'g]bX
nk]gWXYb'H]Yf'i bX'A YbgWX'i VYfhfU[VUfY

\$\DZY_h]cbgYffY[Yf\Zc`[`]WX'\UbXY`h'Yg'g]WX'VY]'XYbj cb']\bYb
\Yfj cf[Yfi ZYbYb'\DZY_h]cbYbi a NccbcgYb"

? ObbYb g]WX VY] i bg i V`]WX Y B i hnh]YfY Vnk "
`YVYbga]hhY``]YZYfbXY H]YfY a]h G5FG!7cJ!&
]bZ]n]YfYb i bX Yg k Y]hYfj YfVfY]hYb3

. .

8f"DYhfu'K Y]Yfa UmYf.' <]Yf'_Ubb']Wk'bi f'Ui Z'X]Y
cZ]n]Y``Y5i ggYbXi b['XYg': 5E '8c_i a Ybhg'XYg': f]YXf]Wk!@OZZYf!

Dgh]hi hg'gY]hYbgXYf² ghYffY]Wk]gWk Yb 'H]YfÀfnhY_Ua a Yf
\]bk Y]gYb.9g'[]VhU_hi Y``_Y]bY' <]bk Y]gY 'XUfUi Zz'XUgg'g]Wk

Bi hhh]YfY'a]h'G5F G!7cJ!&']bZ]n]YfYb'_cbbYb"8 Ug': f]YXf]Wk!@OZZYf!

Dgh]hi h\Uh'Ghi X]Yb'ni f'9a dZUb[`]Wk_Y]h'j cb'H]YfYb'[Y[Ybi VYf

G5F G!7cJ!&'VY[cbbYbz'a]h'YfghYb'VY`UghVUfYb'9f[YVb]ggYb]gh

Zf@\YghYbg9bXY'5df]`'ni 'fYWkbYb"'8]YgY'H]Yfj Yfgi Wk Y'g]bXbOh][z'
i a 'Y]bY'a c[`]WkY'; YZU\fXi b['Zi f'A YbgWk'i bX'H]Yf'UVgWkUhnYb

ni '_cbbYb'i bX'ni 'hYghYbz'cV'g]Y'ni a

J]fi gfYgYfj c]fk YfXYb_cbbhYb"'; YbYfY```[@`h][Y

G]WkYf\Y]nga U» bU\a Yb'k]Y'fc\Yg': 'Y]gWk'i bX'A]`Wk'a]h'J cfg]Wkh
\UbXni \UVYbz'i a '?fYi n_cbhUa]bUh]cbYb'a]h'i b[Y_cWkYb

BU\fi b[ga]hhY'b'ni 'j Yfa Y]XYbz'a @ggYb'bUh@f']Wk'Y]b[Y\U'hYb
k YfXYb"

K Ugʻ_ObbYbʻg]Yʻj Yfi bg]WXYfhYbʻ@UbXk]fhYb Ya dZY\`Yb3

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A U[""?i fh: fØ\k]fh\. \ < Ui g!ž< Y]a ! ii b X B i hnh]YfY g]b X j c b XYf U_hi Y``Yb \Rightarrow ZY_h]c b b]W h V Yhfc ZZY b V nk " [YVYb X]YgY Ui W b]W h k Y]hYf" 8 Ybbc W g]b X U``Y' < m[]YbYa U» b U\a Yb ii b X J Yf\U`hYbgfY[Y`i b[Yb']a I a [Ub[a]h'H]YfYb ini 'VYUW hYb" \Rightarrow I a [Ub[a ØggYb XYg\U`V'Ui W X]Y 9]bgW fÀb_i b[Yb XYfX]fY_hYb Gcn]U`_cbhU_hY j cb @UbXk]fh ii 'H]YfUfnh ii b X Ui W `UbXYfYb DYfgcbYb 'Ui Z'Y]b 'A]b]a i a 'Y]b[YgW fÀb_h k YfXYb"

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$8 Ug^{\cdot} Y]$ » hž X Ugg H]Y fÀfnhY b UW k]Y j cf dfU_h]n]Y fY b X Øf ZY b 3

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A U["'?i fh': fØ\k]fh\. JYhYf]bÀfa YX]n]b]gW\Y'8]Ybgh`Y]hi b[Ybki fXYb'b]W\h'i bhYfgU[h"'H]Yf\U`hYbXY'`UbXk]fhgW\UZh`]W\Y 6Yhf]YVY'_ÒbbYb'XU\Yf'g]W\Yf[Y\Ybž'XUgg'\Rightarrow fY'H]YfVYghÀbXY']a G]bbY'XYf'JYfcfXbi b['kY]hYf\]b'i bhYf'6YfØ W_g]W\h][i b['XYfk]\W\h][Yb'JYf\U`hYbgfY[Y`bž'h]YfÀfnh`]W\'j Yfgcf[h'kYfXYb'_ÒbbYb"

8]Y 6YhfYi i b[gh]YfÀfnhY [YVYb]\fr6YghYg i bX j Yfgi WYb i bhYf K U\fi b[XYb YbhgdfYW\YbXYb J cfg]W\hga U» bU\a Yb X]Y

J Yfgcf[i b['g]W\Yf ni 'ghY `Ybž'9]bgW\f\b_i b[Yb 'Ui Z'X]Y 5_i hZ\hand `Y' i bX i bUi ZgW\]YVVUfY 'H\han][_Y]hYb 'k]fX 'Yg 'U` `YfX]b[g 'k c\` [YVYb" \display 5 \gdfUW\Ya]h`XYb 6YhfYi i b[gh]Yf\hand fnhYb 'k]fX \]Yf]b 'YXYa

: U`` X]Y 'g]W\YfghY J cf[Y\Ybgk Y]gY 'ZYgh[Y`Y[h`k YfXYb" 8]Y

6Yhf]YVY a \@ggYb 'g]W\ XYggYb 'VYk i ggh'gY]b\(\frac{z}{z}\text{Ugg}'Ui W\ 'g]Y 'ni f

_f]h]gW\Yb 'J Yfgcf[i b[gghfi _hi f]b_`" XYf

6YhfYi i b[gY]bf]W\hi b[Yb [Y\OfYb ` 'U``Y' [Ya Y]bgUa 'a \@ggYb 'k]f

XYg\U`V XUZ\@f 'gcf[Yb\f z\text{XUgg}'X]Y 'J Yfgcf[i b[gg]W\Yf\Y]h'Ui W\ 'a]h

h]Yf]gW\Yb '\@YVYbga]hhY 'b ']b 'X]YgYf gW\k]Yf][Yb 'G]hi Uh]cb 'b]W\h

Y]W\hZYfh]['[YZ\h\fXYh'k]fX" 'A \@ggYb 'H]Yf\hand fnhY ']b 'E i UfUbh\hayz']gh

X]Y 'h]Yf\hand fnh']W\Y 'J Yfgcf[i b[']b 'VYgh]a a hYb 'F Y[]cbYb 'ni g\hand hn']W\
[YZ\h\fXYhz'VYgcbXYfg'hf]ZZh'X]Yg XUbb 'bUW\ 'J YfXUW\hg_cbhU_h

Ui W\X 'X]Y '\@UbXk]fhY'qY'Vqh''

I bX k]Y g]Y\h Yg a]h i bgYfYb < Ui gh]YfYb Ui g3

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 $8 f''' DYhfU'K Y]Yfa UmYf. '9g'[]VhV]g\Yf_Y]bY'<]bk Y]gYž'XUgg'<ibXY cXYf'? UhnYb'Y]b' $\delta ZY_h]cbgf]g]_c'Zi f'XYb'A YbgWXYb'XUfghY``Ybž gcUi WXX]Y9]bgWX Uhni b['XYg'9i fcdYUb'7YbhfY'Zcf'8]gYUgY 7cbhfc`i bX'XYfK < CžcXYf'Y]bY'Fc``Y'VY]'XYf'JYfVfY]hi b['j cb G5FG!7cJ!&'gd]Y`Yb''8Yf'?cbhU_h'[Ygi bXYf'DYfgcbYb'ni < Ui gh]YfYb'a i gg'bUWX'XYb'XYfnY]h]['j YfZi [VUfYb' $\delta Zcfa Uh]cbYb Ui g'G]WXh'XYg': f]YXf]WX!@ÒZZYf! $\delta gh]hi hg'b]WXh'Y]b[YgWXfUb_h$

k YfXYb"5``YfX]b[ggc``hYb[fi bX`Y[YbXY`Df]bn]d]Yb`XYf <m[]YbY]a a Yf`VYUW\hYh`k YfXYbž'k Ybb`a Ub`a]h`H]YfYb`]b ?cbhU_h'_ca a hžk]Yn"6"'<UbXY`[fi bX`]W\`a]h`GY]ZY`k UgW\Yb`i bX Y][YbYg'; Yg]W\h'b]W\h'VYfØ\fYb"

? ObbYb k]f k]YXYfi a i bgYfY H]YfY UbghYW_Yb3

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 $8 f''' DYhfU'K Y]Yfa UmYf.'' 6]g Yf'[]Vh'Yg'_Y]bYb'k]ggYbgW UZh`]W VY`Y[VUfYb'<]bk Y]g'Ui Z'Y]bY'Yd]XYa]c`c[]gW 'fY`Yj UbhY' <math>\Rightarrow$ ZY_h]cb j cb'< Ui gh]YfYb'Xi fW ']bZ]n]YfhY'DYfgcbYb'''8 Ug'; YgW Y\Yb Ybhk]\(\w_Y`h'g]\W 'U``YfX]b[g'XmbUa]g\W'i bX'k]fX'j ca: f]YXf]\W! @\\\\ZYf! \div gh]hi h]bhYbg]j 'VYcVUW hYh''

K Y`WX Y A U» bU\a Yb g]bX ZØf < Ui gh]YfY j cb]b
\Ui g`]WX Yf E i UfUbhUbY VYZ]bX`]WX Yb DYfgcbYb ni
Ya dZY\`Yb3</pre>

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A U["?ifh: fØ\k]fh\...:if<ibXY'ibX'?UhnYb'kYfXYb'nibUW\gh_Y]bY'A U»bU\aYb'k]Y'X]Y'EiUfUbhUbY'YadZc\`Yb"=a'9]bnY`ZU``ibX'VY]'5iZhfYhYb'jcb'GmadhcaYb'VY]'XYb'H]YfYbk]fXY]bY'6YdfcVib['ibX'HYghib['UiZ'Y]bY'G5FG!7cJ!&'+bZY_h]cb'UbnifUhYb'gY]bž'iakY]hYfY'+bZcfaUh]cbYb'ni'[Yk]bbYb''DYfgcbYbž'X]Y'g]W\']b'EiUfUbhUbY'VYZ]bXYbž'gc``hYb'[YY][bYhYDYfgcbYb'Ui»Yf\U'V']\fYg'<Uig\U'hYg'ia'IbhYfghihnib['VY]'XYfDZY[Y'XYf'H]YfY'V]hhYbž'YhkU'a]h'XYa'<ibX'gdUn]YfYb'ni'[Y\Yb"9b[Yf?cbhU_hz'k]Y'n"6"'XUg'5VgW\`YW_Yb'XYg'; Yg]W\hg'XifW\'X]YH]YfYžVYgh\h][h']bZ]n]YfhYf'DYfgcbYbni']\fYb'<Uigh]YfYbgc``hYjYfa]YXYbkYfXYb"'<\AbXY'kUgW\Yb'jcfibX'bUW\'?cbhU_h'a]h

K Ug k]fX c XYf _ Ubb X]Y Ni _i b Zh Vf]b [Yb 3

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A U[""?i fh: fØ\k]fh\. `A Ub'k]fX'gY\Yb'k]Y'g]W. `XUg'U_hi Y``Y
GnYbUf]c'\]bg]W.h`]W. `XYf'j]fU'Yb'5i gVYfY]hi b[ž'XYf

9f_fUb_i b[gfUhYb'i bX'8Ui Yf'Ybhk]W_Y`b'k]fX"'K Ybb'k]f'X]Y
U_hi Y``Y'G]hi Uh]cb'b]W.h'_cbgYei Ybh'Yfbgh'bY\a Ybž'XUbb'_ObbhYb
X]Y'5i gk]f_i b[Yb'hUhgÀW.`]W.'_UhUghfcd\U`'gY]b"'8]Y
k]fhgW.UZh`]W.Yb': c`[Yk]f_i b[Yb'g]bX'VYfY]gh'U_hi Y``'YI hfYa ž
kYfXYb'UVYf'ØVYf'X]Y'?f]gY'kY]h'\]bUi gfY]W.Yb"'G]W.Yf']ghž'XUgg
U``Y'j cb'XYf'?f]gY'a Ugg]j '[YhfcZZYb'kYfXYbž'k]Y'kY]h'X]Y'Y]bY
cXYf'UbXYfY'6fUbW.Y'U`g'k]fhgW.UZh`]W.'_f]gYbg]W.YfYf
Y]bni ghi ZYb']ghž'k]fX'Ui W.'ghUf_'XUj cb'UV\Àb[Ybž'k]Y'gY\f'X]Y
X]fY_hYb'5i gk]f_i b[Yb'X]Y'_f]h]gW.Yb'6YfY]W.Y'hUhgÀW.`]W.
hfYZZYb'k]fX"'HUhgUW.Y']gh'VYfY]hg'Yhhž'XUgg'X]YgY'?f]gY'ZØf
i bgYfY'; YbYfUh]cbYb'Y]b'bcW.'b]Y'Yf`YVhYg'5i ga U*Y]bb]a a h'
XU\Yf'_ObbYb'g]W.'Dfc[bcgYb'Ui W.'Ui Z'b]W.'hg'JYf[`Y]W.VUfYg
ah@hnYb"

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A U["?ifh: fØ\k]fh\. JYhYf]bAfa YX]n]b]gWXY8]Ybgh`Y]hi b[Yb k i fXYb b]W\hi bhYfgU[h°

..'| 'CH?'AUf_ig'KUWXY'

 $8 \ Yf'H]YfUfnh'i b X Df Ag]X Y b h' X Y f'H]Yf Afnh Y_Ua a Y f'[]Vh' 5 b hk c fh Y b Ui Z' X] Y' k] W h][gh Y b': f U[Y b' fi b X' i a '7 c f c b U' i b X' B i hnh] Y f Y' G Y] b Y 6 c hg W \ UZ h' \ H] Y f \ U `h Y b X Y' `Ub X k] f hg W \ UZ h`] W Y' 6 Y h f] Y V Y' _\Obb Y b X U \ Y f' g] W Y f[Y \ Y b \ Z' X U g g' \ f Y' H] Y f V Y g h A b X Y'] a 'G] b b Y' X Y f J Y f c f X b i b ['k Y] h Y f \] b' i b h Y f' 6 Y f Ø W_g] W h][i b ['X Y f' k] W h][Y b J Y f \ U `h Y b g f Y [Y `b \ Z' h] Y f \ A f n h`] W 'j Y f g c f [h' k Y f X Y b' _\Obb Y b'']$

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8f"DYhfUK Y]Yfa UmYf. 9g []Vh U_hi Y``_Y]bY <]bk Y]gY XUfUi Zž XUgg g]W Bi hnh]YfY a]h G5F G! 7cJ!&]b Z]n]YfYb cbbYb"

 $8]Y': UWX h]Yf Afnh]b ZDf Ag]XYbh]b XYf^2 ; J < i b X @Y]hYf]b XYf GY_h]cb : cfgWXi b ['XYf K]gg < ca '[]Vh Y]bYb i a ZUggYbXYb 9]bV]W_]b X]Y b Y b Y b Uh]cbU Y Ghi X]Yb Y [Y fi b X i a '7 cfcbU i b X G5F G!7 c J$

 $6 Ygi \ WX Yb \ G]Y \ i \ bg \ Ui \ Z. \ Z^Y]gWX i \ bX Wc \ "Uh$