

! "#\$%&'()*+,-./0123456789:;<=>?@A
" +', '203*%/ . 4&5('0"%&'(163" 7
!"#\$%&'#()"+(,)-\$* . /01*2\$)*34"\$*567"\$*8-9"\$*6"

!"#\$%&'#'"()%*+,\$-.\$ #/(01*-2"\$-(
34(5(6 7

=0*#>%*&#? "'@*%(&\$-' '&)\$/&,,1#-'),/+*(#\$9 "#+-\$-')\$#:0&(* (A

! B#) " 3 3 / '-)&\$-' '#:0&(* CD#) " '\$*2\$#"7#+-() "@*%1E

! B#: /4,-)&\$-' '#:0&(* CD#) " '\$*2\$#"7#F/ (\$-7-)&\$-' 'EG

!"#\$%&'()*'+,-.%*+,-./0123456789:;<=>?@A



! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;
" . + ' , ' 203 * % / . 4 & 5 (' 0 ' % & ' (1 6 3 " 7
! " # \$ % & ' # () " * + (,) - \$ * . / 0 1 2 \$) * 3 4 " \$ * 5 6 7 " \$ 6 " * & - \$ 8 " 9 " \$ 6 "

/ % & #



! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;
" . + ' , ' 203 * % / . 4 & 5 (' 0 " % & ' (1 6 3 " 7
! " # \$ % & ' # () " * + (,) - \$ * . / 0 1 2 3 4 5 6 7 8 9 " \$ 6 " * & - \$ 8 " 9 " \$ 6 "

4 .) 0 1 &) 2 / & . & " 0) . 5 . 0 & -) # 6) . * , & " 0 , 6 , *) 2 3 7 % , . 1 , " (7 & . 0) . 3 , 0 & ') 6 # /) 0 1 &) 2 / # ' 3 * 0 , # ") # 6)) 8 " # \$ % & ' (& 9

! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ [\] ^ _ ` { | } ~ ! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ; < = > ? @ [\] ^ _ ` { | } ~

! " # \$ % & ' (

) * + & + ' * & ,

#

8A) ' " & % = " 5) 5 " , / " 5 1 ' * 5) , + % = * 5 1 F * 5) % = " & 5) 6 5 * D & " 1 G) 6 , < C) . = *) 6 , < 1 H

8A) / , % , , ' /) * 2 1 " 5 7 , % & * ' 1 , 5 ") , # 1 *) * 6 " ' C) " , 1 & # <) 0 & ' " / C) = * .) \$, '))))))

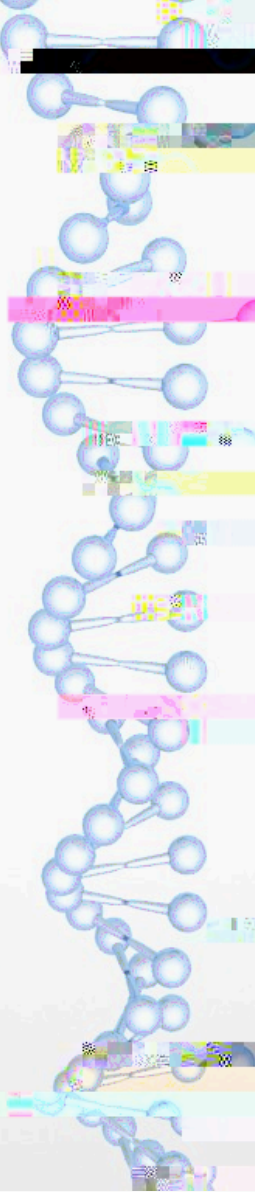
6 + 2 # & 1 = & ' () % = " 0) 2 ") 0 * ' " % & I " / H

8A) % = " 5 ") & 1) ' *) 7 " 5 1 & * ') * A) 5 " \$ * 5 / C) * ' # <) ,) 5 " \$ * 5 /) * A) 7 " 5 1 & * ' 1 C) = * .) / * " 1)

* . ' " 5 1 = & 6 F \$ * 6 < 5 & (= % G) . * 5 - C) , ' /) = * .) \$, ') & %) 2 ") 0 * ' " % & I " / H

! " # \$ % & ' () * + # ! " # \$ % & ' () * +

5 \$ / () / () 6 \$ % #) # \$.) 7 (& (# % / * % ! 8 . 9) ! & (/ * . (() 0 8 % * ' . % 8 8 :) : . % * (< < <)



! "#\$%&'()*+,-./0123456789:;
" + ' , 203 * % / . 4 & 5 (' 0 " % & ' (1 6 3 " 7
! "# \$ % & ' # () " * + (,) - \$ * . / 0 1 2 \$) * 3 4 " \$ * 5 6 7 " \$ 6 " * & - \$ 8 " 9 " \$ 6 "

/. + ' + 1 * ' - . / 0 \$ (1 \$ % & % * * 3 * 3 ' + " ' # 6 0 \$ 3 6 + * ' () \$ * % + \$, \$) ' 8 % " 7 0 * 3 & *
\$ (' 6 ' (. \$ + 6 / 0 * ! " # \$ % & ' % () * ! + , - . & &



! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;
! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;

: 1 & # ' () * ! . % & 1 . # . (' ' - . & 4 # \$ - # . (' ' - 1 \$
\$ % & # ; 1 & , \$ # < - ' 8 & 1 . , \$! - ' # - 0 # = + ! & ' + & >

/

? . # \$ % & # ; 1 & , \$ # < - ' 8 & 1 . , \$! - ' # - 0 # . + ! & ' + &
9 (. \$ # , ' - \$ % & 1 # 3 , @ # 0 - 1 # ' () * ! . % & 1 . # \$ - # 6 , 2 & # 6 - ' & @ >

! " # \$ % & ' () * + (,) - \$. / 0 1 2 \$) * 3 4 " \$ * 5 6 " \$ 6 " * & - \$ 8 " 9 " \$ 6 "

Speaking about the **make** of scientific publishing
and the **union** proposed:

Indeed, **publishers**, both commercial and some
non-commercial, have found a way to make scientific
publishing **highly profitable** by designing a **stable**

market

! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;
" . + ' , ' 203 * % / . 4 & 5 (' 0 ' % & ' (1 6 3 " 7
! " # \$ % & ' # () " * + (,) - \$. / 0 1 2 3 4 5 6 7 8 9 " \$ 6 " * & - \$ 8 " 9 " \$ 6 "

?) ; % ' > , # / () 8 / # # 8 ,) ; ' ' ,) # \$ % *) %) (, #) ' .) # ' % * (% - # / ' * % 8) ' & 8 , ()
% 0 0 8 / , +) # ') %) (, #) ' .) 6 , 8 8 @ / + , * # / . / , +) % - # ' ' (

8 ') 1 \$ & " ' % & A & \$) 6 + 2 # & 1 = & ' (C) % = ") 0 , 5 - " %) & 1) 2 , 1 " /) * ')
% = ") - " ; 0 , # / # / ' *) ' .) A " & ' * % 8) # / # 8 , (. " ') # \$,) ; " * , :) " .) 8 / ! ' % ' / , ()
% * +) ' , (, % ' - \$) . & * + / * =) / * (# / # & # / ' * (

E = ") \$ * 0 6 " % & & * ' & % 1 " # A) & 1) 2 , 1 " /) * ') ,) A # , . " /) & ' / & \$, % * 5 2 , 1 " /) * ') \$ & % , % & * ')
\$ * + ' % & ' () N % = ") 1 * B \$, # # ' /) O & 0 6 , \$) A , \$ % * 5 P) F 8 Q G

! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;
" . + ' ' , 203 * % / . 4 & 5 (' 0 ' % & ' (1 6 3 " 7
! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;

E=")\$*06"%&&7")5, '-&'()*A)R*+5', #1 2, 1"/)*')%=")8Q \$#, &01)%*), //5"113

E=")J+, #&%<)*A)R*+5', #1

E=")J+, #&%<)*A)&' / &7&/+, #)5"1", 5\$="51

S*+5', #1 5"#<)*')%="&5)



! " # \$ % & ' () * + , - . / : ; < = > ? @ [\] ^ _ ` { | } ~ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ± ² ³ ´ µ ¶ · ¸ ¹ º » ¼ ½ ¾ ¿

! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;
" . + ' , ' 203 * % / . 4 & 5 (' 0 " % & ' (1 6 3 " 7
! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;

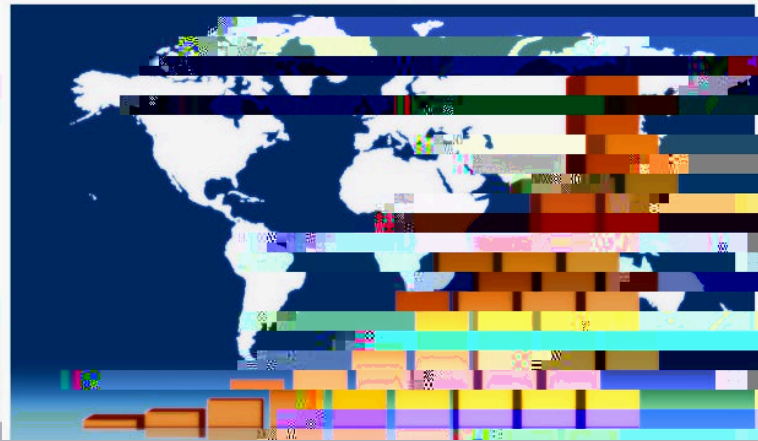


Time Education releases its World University Rankings 2024

The United States dominates

12 September 2024

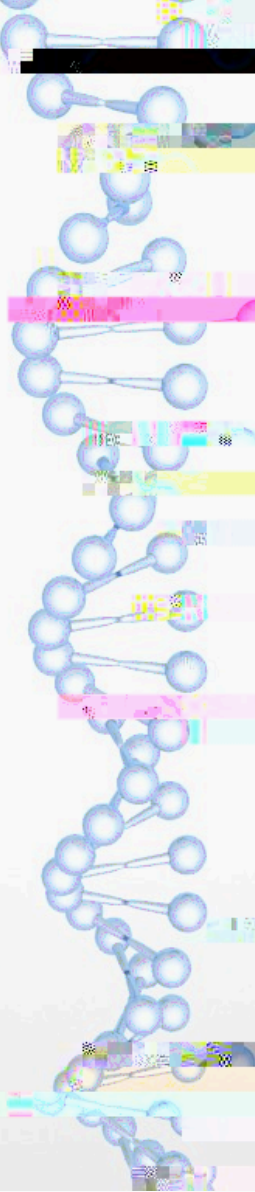
By Cecilia



! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;
" . + ' , ' 203 * % / . 4 & 5 (' 0 ' % & ' (1 6 3 " 7
!" # \$ % & ' # () " * + (,) - \$ * . / 0 1 2 3 4 5 6 7 8 9 : ;

E = " = < 6 " 5 B \$ * 0 6 " % & % & 7 ") 5 " (& 0 " & 0 6 * 1 " /) % *) % = ") . * 5 # /) 1 < 1 % " 0) * A) 1 \$ & " ' \$ ")
2 <) % = ") 6 5 " 1 " ' %) 6 + 2 # & \$, % & * ') 1 < 1 % " 0 = , 1) 1 " 7 " 5 , #) \$ * ' 1 " J + " ' \$ " 1 3

8 ' \$ & % " 0 " ' % % *) 6 + 2 # & 1 =) & ') 1 * B \$, # # " /) 0 = & (= B & 0 6 , \$ % P) R * + 5 ' , # 1) F . = , %) / * " 1)
/ ; 0 % - #



1. The DNA double helix is composed of two antiparallel strands.



2. The strands are held together by hydrogen bonds between the nitrogenous bases.



3. The base pairing is specific: Adenine (A) pairs with Thymine (T), and Guanine (G) pairs with Cytosine (C).



4. The DNA molecule is a right-handed helix.



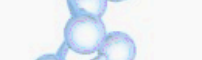
5. The DNA molecule is a polymer of nucleotides.



6. The DNA molecule is a double-stranded molecule.



7. The DNA molecule is a right-handed helix.



8. The DNA molecule is a polymer of nucleotides.



9. The DNA molecule is a double-stranded molecule.



10. The DNA molecule is a right-handed helix.



11. The DNA molecule is a polymer of nucleotides.



12. The DNA molecule is a double-stranded molecule.



13. The DNA molecule is a right-handed helix.

! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;
! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;
! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;

! " # \$ % & ' () * + ,

! " # \$ % & ' () * + , ! - * .. (- \$ % & * + / 0 * #
1 ' # 2 % * 0 3 - (4 5 % 3 ' 2 % " 0 % 6 - (. - 7 0 / \$ % (" 8 3 0 ,
9 - 2 # - 4 2 ' \$ % ' # 2 % : 3 + (4 2 ' \$;



! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;
" . + ' , ' 203 * % / . 4 & 5 (' 0 " % & ' (1 6 3 " 7
! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;



8 % (* & 9 \$ 1 (+ * 1 - / : (; * < \$ (3 \$ 4 * % - (
& 9 # / (, \$. 5 " 4 (* ' (0 1 # % & : (
, 4 # % . (# % (= , - \$ % 3 2 1 . > / ? * % . (! 9 5 - * + @

! "#\$%&'(\$)*%+,-.' / 0+12

! "#\$%&'(\$)*%+,-.' / 0+12

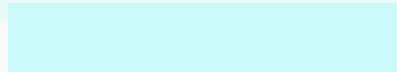
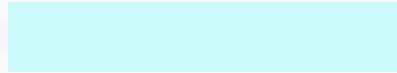
- Se e al **La in Ame ican** jec (Redal c, AmeliCA, Clac , SciELO, La Refe encia, e c.) ha e dem n a ed he e-e minence f **OA portals and databases**;
- **I nical** , **c mme cial bli he** (ha de end n j **nal** and hei **IF**) ha e eng hened hei **bli hing la f m**
- Se e al **f nda i n** (Wellc me, Ga e , e c.) ha e m ed bli hing **platforms**
- The **E ean Uni n**, i h **ORE**, i ginge l ing e e imen i h he **bli hing platform c nce**

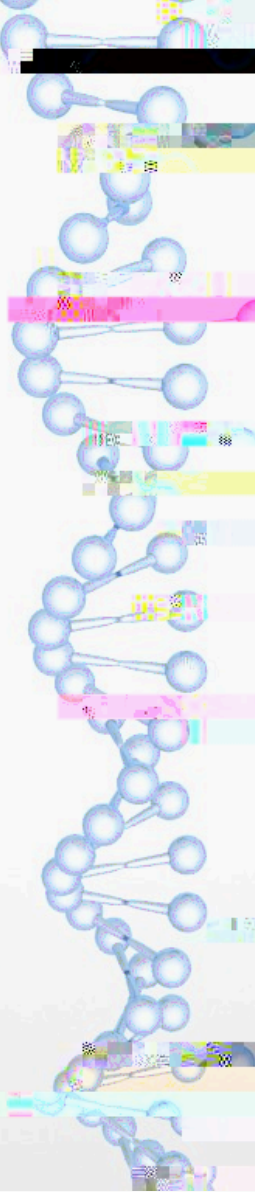
Platforms enc m a j nal , m n g a h , da a , f a e , ide , e c., and e nd e fec l he need f **digital publishing**

! " # \$ % & ' () * + (,) - \$ * . / 0 1 2 \$) * 3 4 " \$ * 5 6 " \$ 6 " * & - \$ 8 " 9 " \$ 6 "

Pla form :

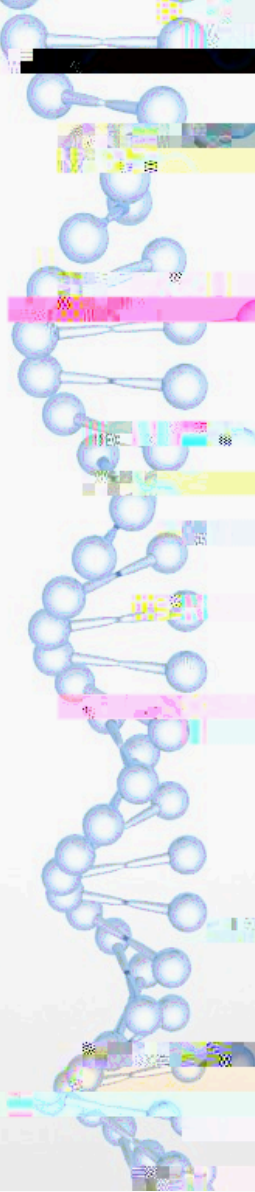
! 3 * 4 + % 5 6 " ' & \$ 7) 8 " % 1 - 9 : + * 1 5 7) , + * , # ' : * " ; : * 5 % 1 - <



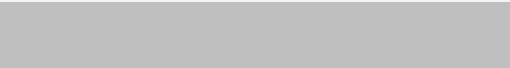


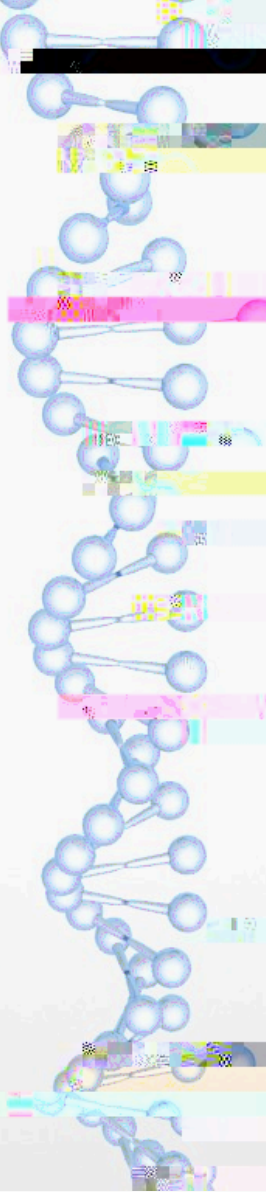
! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;
" . + ' , ' 203 * % / . 4 & 5 (' 0 " % & ' (1 6 3 " 7
! " # \$ % & ' # () " * + (,) - \$ * . / 0 1 2 \$) * 3 4 " \$ * 5 6 7 " \$ 6 " * & - \$ 8 " 9 " \$ 6 "





! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;
" . + ' , ' 203 * % / . 4 & 5 (' 0 " % & ' (1 6 3 " 7
! " # \$ % & ' # () " * + (,) - \$ * . / 0 1 2 3 4 5 6 7 8 9 " \$ * 5 6 7 " \$ 6 " * & - \$ 8 " 9 " \$ 6 "





! "#\$%&'()*+,-./0123456789\$6"&-\$8"9"\$6"

! "#\$%&'()*+,-./0123456789\$6"&-\$8"9"\$6"

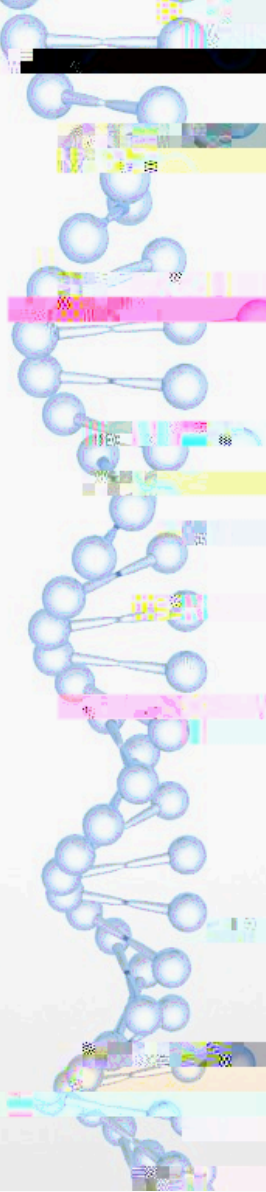
- **Research funding agencies** are the key: they control a large fraction of the **research mone** and they enjoy some elbow room as they are not (directly) ranked
- **Research funding agencies** can design systems of **evaluation** that do not depend on **journals** (IFs), and that allows them to obtain the types of outcomes they are looking for (**their science policy**)
- **Private charities** (Wellcome, Gates, etc.) may enjoy sufficient degrees of **autonom** to **e□plore** platform-based scientific publishing further

! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;
! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;

! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;

The role of libraries

- Libraries have access to find what you need
- Libraries can become independent libraries because of digital technology
- Libraries have a role



! " # \$ % & ' () * + , - . / 0 1 2 3 4 5 6 7 8 9 : ;
" . + ' , ' 203 * % / . 4 & 5 (' 0 " % & ' (1 6 3 " 7
!"#\$%&'#()**+(,)-\$. /012\$)*34"\$*567"\$6"*&-\$8"9"\$6"

