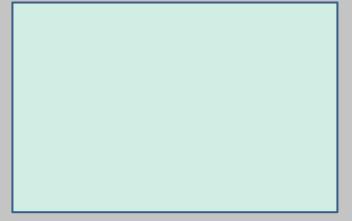


# Computational Chemical Biology and



### -". /\$01002 &33454"&647\$5+, &' 78/&99+', \$/. 543: 5&"\$7; ' &/+3<\$=&>??! @746436<\$3"; 96+3\$A+' 7+', \$<+64<





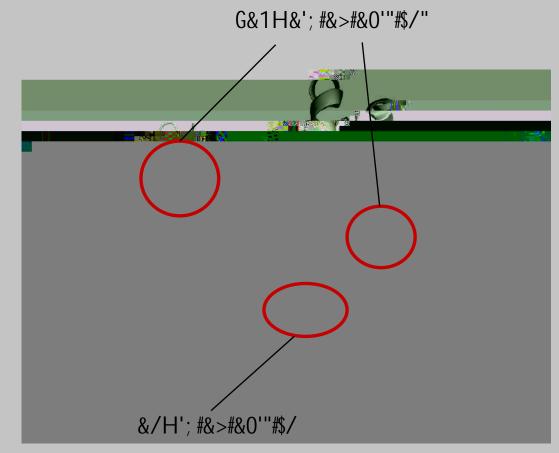




### B995; +', \$&>??! \$6. \$&\$7":, \$6&", 46



EF+%&>/> \*)9+\$#\* +1\*G/\$ +)/>#\*\$/> ;9 %@668 %&>.%,#>%\$/> ;9 &/H I=)%9 \*)9"\$%, "\$)4\*\$4)/"



%@668 +)/>#\*\$/> \$7/ \$H1 G&1H& ; #&>#&0 "#\$/" %&> % &/H ; #&>#&0 "#\$/



45676(" >?(@6'(" 89: ; <= 89: ; <=

J4&>/>'; 9'5K8L'()/=(#,1\$



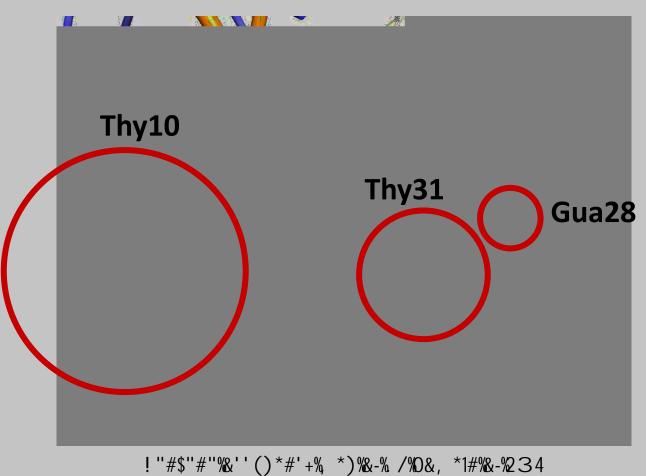
#### \*6": 36: "48A&<47\$74<+, ' \$. C\$! DB\$&96&/4"<

- ! +\$%3/)"'%)/'"#&0,/="\$)%&>/>'8M! '1)'LM! '31,/\*4,/"'H#\$7'4&#N4/'\$/)\$#%)9'"\$)4\*\$4)/"
- K7/9'7%. /',#3#\$/>'\*7/3#\*%,'>#. /)"#\$9'; /\*%4"/'\$7/)/'%)/'1&,9'0'&%\$4)%,'&4\*,/1\$#>/"'%. %#,%; ,/'P1)'"/,/\*\$#1&
- Q&&%\$4)%,'&4\*,/1\$#>/'''\*14,>'#&\*)/%''/'\$7/'P4&\*\$#1&%,#\$9'1P'%+\$%3/)'''; 9'+)1. #>#&0'%>>#\$#1&%,'\*7/3#\*%,'%&>' ''\$)4\*\$4)%,'>#. /)''#\$9'; /91&>'\$7%\$'+)1. #>/>'; 9'&%\$4)%,'&4\*,/1\$#>/''
- R/&/\$#\*'%,+7%; /\$'/F+%&>/>'H#\$7'>/./,1+3/&\$'1P'8"



>??! \$<+/:5&6+. '<\$+74'6+C;\$6E"44\$E;7".9E.A+3\$A+'7+',\$<+64<\$'4&"\$&96&/4"\$A+'7+',\$ +'64"C&34\$)+6E\$FG-

- ▶ .1&'T#,,/;)%&>'P%\*\$1)'?. TJA'#'''%'+)1\$/#&'P14&>'#&';,11>'+,%''3%'\$7%\$'P%\*#,#\$%\$/''';,11>'\*,1\$\$#&0
- ! "'\$7/'8"'&4\*,/1\$#>/'#"'7#07,9'79>)1+71; #\*U'; /&D/&/"'H/)/'4"/>'#&'@668'"#34,%\$#1&"'\$1'#>/&\$#P9'+4\$%\$#. /'8"' #&\$/)%\*\$#1&'''#\$/"'1&'! V'>13%#&'1P'. T J





! <\$<: A<6+6: 6+. ' <\$&6\$9. <+6+. ' <\$H1I\$0J\$&' 7\$KH\$+' \$&96&/4"\$BLMHHNO

8""4; "\$#\$4\$#1&"+)/. #14",9'#&\$)1>4\*/>'\$1'! LWVVXB'%\$'+1"#\$#1&"'VCU'BY'%&>'ZV



7

### ?. 543: 5&"\$/. 7455+', \$. C\$! <8<: A<6+6: 647\$BLMHHNO\$74"+F&6+F4<

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



J 5%#\*)6E&86%E&G1#F% \*%"?#\*812''%&#-&?, \*81&#6%&-% 56/K 56<L% &O''≫''0%&#8&%?+68\*≫ 68?('8(?''%=@ABC%DE1&)E''#''%1#F% &-%56<L%0&''6%#&8%&2''?>\*)%G18E% 56=/% &0''≫''0%&#8&%?+68\*% 68?('8(?''⊯@ABC%DE1&)E''#''%1#F% &-%56=/%>\*6E''6%G18E%HE''/=I;C

8"VC'%&>'8"BY'>/)#. %\$#. /"')/3%#&/>'; 14&>'\$1'. T J'\$7)1407'68'"#34,%\$#1

2#&>#&0'P)//'/&/)0#/'''%)/'&1\$'''#0&#P#\*%&\$,9'>#PP/)/&\$'P)13'! LWVVXB'?=VYY<Z'</p>



0+. 45436". ' +3<



S55#P#5K#' H.#. /3(62/4%.#, -, , .#OM.#O1LM301M, ; B' (#\*\*)#5K#' H.#V; \*#WG5''' .#, -, , .#O.#O/MN130/MO-: 56X6K' #: Y#5K#' H.#5\$/)&/2%, -126.#, -, L.#ON.#O-2



#### !"#\$%#&'()\*(+\*, -(&. ')/012\*3(45')6\*7.&8(39



P' 64"' <0\$"4<4&"3E



!"#\$%#&'()\*(+\*3'++. -.)&\*+-#67.)&#&'()\*

7. &8(39\*+(-\*+-#67.)&\*3#&#:#9.\*, -., #-#&'()

H=5]: ^%8&))"0%G&?S1#F%E\*>G\*+%8E?&(FE%8E''%)?&\''8% \*#0%&&#(, 7"?%&-%8''68% \*6''6%G\*6%, \*>

▶ . ''(?\*'+\_‰(, -?)' ‰‰5] : ^‰% 5] : ^‰‰09H:

V)""0\_%C@D3E%%@5]: ^%% >(6H?&%a%=09H:

F?G!FFD%G\*6%8E''%7''68%?\*F, ''#8\*81&#% ''8E&O%\*6%8%F''#''?\*8''6% -?\*F, ''#86%8E\*8\_

- \*?"%E1FE>+%(#1b("
- ▶ -&≫&G%8E''%c?(>''%&-%8E?'''d%8&%8E''%F?''\*8''68%''[8''#8

:>\*?\*%D\*#Z%@\*?16E1F\*%>\*#F&2\*#%\*#O%N1,%F(%q1#F%N/9HU%

#### 🗋 🖬 🖉 👘 👘 🖉 👘 👘 👘 🖬 👘 🖬 👘 🖬 👘

## B3R'.) 547, 4/4'6<

;&#++< `4"\$#&'M0 6/&0'a7/&94 W71&0'b#%&'W7//



11

- 22

See State