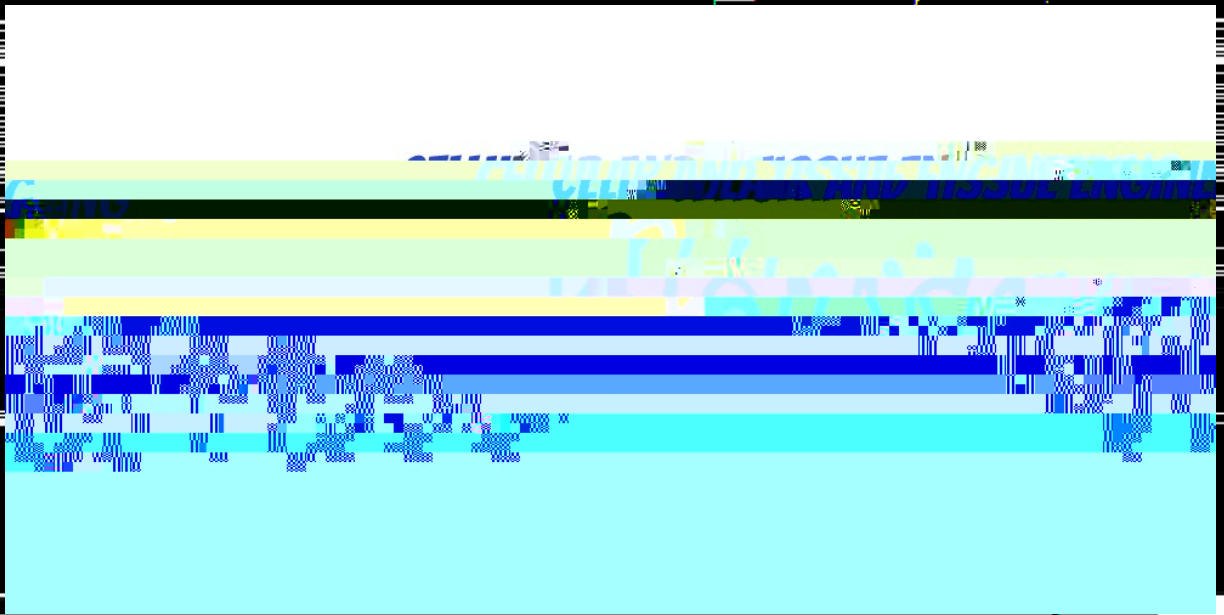


# BIOM9333

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HYTa ~ Z&\$&%



# Course Overview

## Staff Contact Details

### Convenors

B Ua Y	9a Uj`	5j Uj`UVj`]m	@cWjh]cb	D\cbY
A Y[ Ub`@cfX	<a href="#">a "cfX4 i bgk "YXi "Ui</a>	VmiUddc]bha Ybh	F cca `) \$) ž @Yj Y`) GUa i Y`g 6i ]X]b[	Ž *%&- ' , )' - %\$

## School Contact Information

Gh XYbhGYfj ]Wg`WUb`VY`WcbhUWYX`j ]U`i [bgk "hc# YVZcfa g"](#)


: YYXVUW\_ ]g'Ub'ja dcfhUbhHYUW]b[ 'ghfUH[ [ mi h]gYX' ]b' h' ]g'Vēi fgY" : bghUbhZYXVUW\_ ]g'dfcj ]XYX'Xi f]b[ h'Y'UW]j ]hYg'UbX'Yggcbg'k \]Y'ZYXVUW\_ cb'UggYgga YbhUg\_g'k ]'VY'dfcj ]XYX'k ]h' ]b' &k YY\_g'k ]h' XYHU]YX'a Uf\_]b[ ' [ i ]XYg'dfcj ]XYX'hc'Ugg]ghmci ' ]b'i bXYfghUbX]b[ 'mci f'YUfb]b[ 'dfc[ fYgg" : b'UXX]h]cbž k YY\_mE i Ygh]cb'UbX'5bgk Yf'fE / 5E'gYgg]cbg'Xi f]b[ 'h'Y'k cf\_g'cdg'k ]'Ugg]ghk ]h'YUfb]b[ "

## Additional Course Information

@Yggcbg'UFY'Vēa d'YHYX' ]b'mci f'ck b'h]a Y'k \]Y'h'Y'k cf\_g'cdg'UFY'\Y'X'Xi f]b[ 'WUgg'h]a Y'hc'Vēbgc' ]XUH' mci f'i bXYfghUbX]b[ 'cZh'Y'Yggcbgž'fYW]j Y'\Y'd'hc'Vēa d'YHY'h'Y'UW]j ]hYg'UbX'k cf\_'cb'h'Y'h'Y'Ua 'a U'cf dfc'YW'

# Assessment

Students who perform poorly in the weekly progress tasks are recommended to the Course Convenor during the term.

The final grade for this course will normally be based on the sum of the assessment tasks. The Course Convenor reserves the right to adjust the final grade by the Head of School.

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Assessment task	Weight	Due Date	Course Learning Outcomes Assessed
Weekly Progress	10%	10/10/2021	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
Individual Tasks	10%	10/10/2021	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100
Final Exam	80%	10/10/2021	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

## Assessment 1: Weekly Progress

Due date: 10/10/2021

Assessment Outcomes: This assessment task assesses the following learning outcomes: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

Students who perform poorly in the weekly progress tasks are recommended to the Course Convenor during the term.

## Assessment 2: Individual Tasks

Due date: 10/10/2021

Assessment Outline: [X]i U`HUg\_g`fl Ł`%\$ı 'YUWžk ]`dfcj ]XY`mci `k ]h`Ub`cddcfh b]mhc Udd`mh`Y`h`Ycfmrci ``YUfbYX`]b`h`Y`k`YY`m`Yggcbg"

### Assessment 3: Quizzes

Due date: [X]i Y`XUH`g`]b`A`cc`X`Y`

#### Assessment outline:

Mid-term [X]i U`HUg\_g`fl Ł`%\$ı 'YUWžk ]`dfcj ]XY`mci `k ]h`Ub`cddcfh b]mhc Udd`mh`Y`h`Ycfmrci ``YUfbYX`]b`h`Y`k`YY`m`Yggcbg"

Final Exam [X]i U`HUg\_g`fl Ł`%\$ı 'YUWžk ]`dfcj ]XY`mci `k ]h`Ub`cddcfh b]mhc Udd`mh`Y`h`Ycfmrci ``YUfbYX`]b`h`Y`k`YY`m`Yggcbg"

### Assessment 4: Major Project (Group)

Due date: [X]i Y`XUH`g`]b`A`cc`X`Y`

Assessment outline: [X]i U`HUg\_g`fl Ł`%\$ı 'YUWžk ]`dfcj ]XY`mci `k ]h`Ub`cddcfh b]mhc Udd`mh`Y`h`Ycfmrci ``YUfbYX`]b`h`Y`k`YY`m`Yggcbg"

### Assessment 5: Peer review

Due date: [X]i Y`XUH`g`]b`A`cc`X`Y`

Assessment outline: [X]i U`HUg\_g`fl Ł`%\$ı 'YUWžk ]`dfcj ]XY`mci `k ]h`Ub`cddcfh b]mhc Udd`mh`Y`h`Ycfmrci ``YUfbYX`]b`h`Y`k`YY`m`Yggcbg"

# Attendance Requirements

Gh XYbtg UFY gfcfb[ mYbWci fU[ YX'hc Wca d'YH' hAY Yggcbg]b hAY]f'ck b'hja Y UbX UHbX hAY k cf\_g\cdg YUWX k YY\_"

## Course Schedule

[J.Yk.WUgg'ha YhUV.Y](#)

### Timetable

Date	Type	Content
K YY_% '% GYdhYa VYf ! '% GYdhYa VYf	Hcd]W	<b>Principles of Tissue engineering and regenerative medicine (TERM) I</b>
	A cXi`Y	7 ca d'YH' @Yggcb`% ]b`A ccX`Y` ]b`mci f'ck b'hja Y"
	K cf_g\cd	5 hYbX`WUgg'hc`YI dYf]YbW.  % "7 ci fgY` b'hcXi W]cb &"7 cbgc`XU]cb`cZ@Yggcb`% ' "5W]j ]mi% ( "E / 5
	5ggYgga Ybh	7 ca d'YH' hAY`Zc`ck ]b[ `VmGi bXUm%%) )`da`cb A ccX`Y.  % "K YY_`mdfc[ fYgg'ei ]n`Zcf`@Yggcb`%f%  Ł &"K YY_`mdfc[ fYgg'ei ]n`Zcf`5W]j ]mi`fi  Ł
K YY_&.`&\$GYdhYa VYf !&(`GYdhYa VYf	Hcd]W	<b>Principles of TERM II</b>
	A cXi`Y	7 ca d'YH' @Yggcb`& ]b`A ccX`Y` ]b`mci f'ck b'hja Y"
	K cf_g\cd	5 hYbX`WUgg'hc`YI dYf]YbW.  % "7 cbgc`XU]cb`cZ@Yggcb`& &"5W]j ]mi& ' "E / 5
	5ggYgga Ybh	7 ca d'YH' hAY`Zc`ck ]b[ `VmGi bXUm%%) )`da`cb A ccX`Y.  % "K YY_`mdfc[ fYgg'ei ]n`Zcf`@Yggcb`&f%  Ł &"K YY_`mdfc[ fYgg'ei ]n`Zcf`5W]j ]mi&`fi  Ł
K YY_".`&+GYdhYa VYf	Hcd]W	<b>Principles of TERM III</b>







	5ggYgga Ybh	<p>7ca d`YHY`h\Y`Zc`ck ]b[ `VmGi bXUm%%) ) `da `cb A ccXY.</p> <p>%"6]cdfcVWgg]b[ `HUG_`f%\$i  Ł &amp;"A U`cf`Dfc`YVh`DYYf`F`Yj`]Yk`if)  Ł ' "A U`cf`Dfc`YVh; fci d`7 cbhf]Vi h]cb F YZYW]cb`f% / [ fci d`hUg_Ł</p>
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# Resources

## Recommended Resources

- 5'g\cfh[i ]XY'hc'k f]hb[ 'UVci hV]c'c[ mž[ 'cVU''YX]h]cb'Vm>Ub'DYWXyb]"

## Course Evaluation and Development

Gh XYbhZYXVUW\_\Ug'\Y'dYX'hc'g\UdY'UbX'XYj Y'cd'h.]g'Wci fgYž]bWi X]b[ 'ZYXVUW\_cVHU]bYX'Zca'cb! ]bY'Yj U'i Uh]cbg'Ug'dUfhcZa m9I dYf]YbW"

H\Y'Wci fgY'i bXYfk YbhU'a U'cf'fYj ]g]cb' ]b'&\$&\$'k ]h'WXUb[ Yg' ]bWi X]b[ 'fYcfXYf]b[ 'cZhY'WcbYbh XY' ]j YfYXž'fYj ]g]cb'hc'h\Y'Wci fgY'WcbYbhUbX' ]bWi g]cb'cZa U'cf'dfc'YWhgYgg]cbg'hc'Ugg]ghk ]h'h\Y'h]a Y'm UbX'ZcW'gYX'XYj Y'cda YbhcZhY'a U'cf'dfc'YWh': cf'h\Y'Z]fgh]a Yž'U''Wci fgY'WcbYbh]g'XYg][ bYX'Zc'f'cb' ]bY UWW'gg'k ]h' ]bgfUbhZYXVUW\_ ]bW'f'c'f'U'h'X' ]bhc'U''Yggcbg'UbX'UW'j ]h]Yg": i fh'Yf'XYj Y'cda Ybhg'cZ&\$&% \Uj Y' ]bWi XYX'fYj ]g]cb'cZhY'Wci fgY'WcbYbhUbX'UggYgga Ybhg'UbX'dfcj ]g]cbg'hc'Ug\_'Ubcbma ci g ei Ygh]cbg'k \]W'k ]''VY'fYgdcbXYX'hc' ]b'h\Y'8.]gW'gg]cb'Zc'f' a' ]b'A ]W'cgcZiHYUa g"

DfYj ]ci g'gh XYbhg' ]b'h\Y'WUgg'dfcj ]XYX'ZYXVUW\_ ]bWi X]b[ '**Very interesting course and well**

# Submission of Assessment Tasks

@UVcfUhcfmfYdcfhg`UbX`a U`cf`Ugg][ ba Ybhg`k ]`fYei ]fY`U`[Bcb`D`U\[ \]Uf\]ga`8YWUfU\]cb`7cj`Yf`G`YYh`](#)

@UH`gi Va ]gg]cbg`k ]`VY`dYbU`]gYX`%\$i`cZ`h`Y`a Uf`\_`Zcf`YUW`WJ`YbXUf`XUm`UH`" `Z`mci`ZcfYgYY`U`dfcV`Ya ]b`a`YYh]b[ `h`Y`bca ]bUH`X`gi Va ]gg]cb`XUH`d`YUgY`W`b`h`U`W`h`Y`7`ci`fgY`7`cbj`Ybcf`h`a`U`\_`Y`Ub`Uddc]b`h`a`Ybh`h`X]gW`gg`mci`f`g]h`U]cb`Ug`gccb`Ug`dcgg]V`Y`"

# Academic Honesty and Plagiarism

## PLAGIARISM

6Yk UFY"5b"Ugg][ ba YbhUUh]bWi XYg'd'U[ ]Uf]gYX'a UHYf]U"K ]"fYW]j Y'U"\$i : U]žUbX'ghi XYbtg'k \c d'U[ ]Uf]gY'a UmZ]j"i"i"Y'Wci fgY"i"Gi XYbtg'k \c d'U[ ]Uf]gY'k ]"i"Uj Y'U"Y]f'bUa Yg'YbHYfYX'cb'U'd'U[ ]Uf]ga fY[ ]gHYf'UbX'k ]"i"VY"i"UV'Y'hc'X]gW]d' ]bUfmiUW]cbž ]bWi X]b[ 'YI Wi g]cb'Zca 'Ybfc'a Ybh"i" #]g'YI dYWYX'UUhU"i"ghi XYbtg'a i ghUhiU"i"ha Yg'gi Va ]hU"Y]f'ck b'k cf\_'Zcf'UggYgga Ybh'Gi Va ]h]b[ 'i"Y k cf\_'cf']XYUg'cZgca YcbY'Y'gY'k ]h]ci hWYUfmiUW\_bck 'YX[ ]b[ 'i"Y'gci fW'cZVcffck YX'a UHYf]U'cf']XYUg' ]g d'U[ ]Uf]ga "

5"UggYgga Ybtg'k \]W' mci 'Ubx' ]b'a i gh'Uj Y'U' [Bcb'D'U\[ \]Uf\]ga '8YWUfU\]cb'7cj Yf'G\YYH](#)"H\]g' ]g'Zcf Vch' ]bX] ]Xi U'Ubx' [ fci d'k cf\_"5hUW ]h]hc' mci f'Ugg][ ba YbhVYZcfY'gi Va ]h]b[ ' ]h]hc' i"Y'7 ci fgY 7ccfX]bUhc'f'cf'Uhi"Y'GVXcc'`C Z]W"

D'U[ ]Uf]ga ' ]g' i"Y' i gY'cZUbch"Yf'dYfgcb'g'k cf\_'cf']XYUg'Ug' ]ZHYmik YfY' mci f'ck b"K \Yb' ]h]g' bYW'ggUfmicf XYg]fUV'Y'hc' i" gY'ch"Yf'dYcd'Y'g'a UHYf]U' mci 'g' ]ci 'X'UXYei UHY' mUW\_bck 'YX[ Y'k \cgY'k cfXg'cf']XYUg' i"Ym

# Academic Information

## COURSE EVALUATION AND DEVELOPMENT

Gh XYbhZYXVUW\_\Ug\YdYX'hc'g\UdY'UbX'XYj Y'cd'h\]g'Wci fgYz]bWi X]b[ 'ZYXVUW\_cVHU]bYX'Zca'cb!  
']bY'Yj U'i Uhcbg'Ug'dUfhcZI BGK 'g'Ug'dUfhcZI BGK 'g'a m9I dYf]YbW'dfcW'gg"Mc'i 'UfY'\][\`m  
YbWci fU[ YX'hc'Wca d'YH'gi W\ 'Ub'cb!]'bY'Yj U'i Uhcb'hck UfX'hY'YbX'cZHYfa "': YYXVUW\_UbX'gi [ [ Ygh]cbg  
dfcj]XYX'k]'`VY'ja dcfhUbh]b]ja dfcj]b[ 'hY'Wci fgY'Zf'Z hi fY'gh XYbng"

## DATES TO NOTE

FYZf'hc'A m BGK 'Zcf'a dcfhUbh8UH'gZ'Uj U]UV'Y'Uh  
[\hdg.#a m'i bgk "YXi "Ui #gh XYbh#Ygci fW'g#? Ym8UH'g"\ha`](#)

## ACADEMIC ADVICE

: cf]bZcfa Uhcb'UVci h

- ""Bch'g'cb'UggYgga Ybng'UbX'd'U[ ]Uf]ga ž
- ""GdYWU"7 cbg]XYfUh]cbgž
- ""GWcc""Gh XYbh9h]Vg'C Z]Wfz'UbX
- ""69GG

fYZf'hc'hY'GWcc`k YVg]H'Uj U]UV'Y'Uh

# Appendix: Engineers Australia (EA) Professional Standard

Program Intended Learning Outcomes	
? bck `YX[ Y`UbX`g_]`VUgY	
D9%"%7 ca dfY\Ybg]j YžhYcfmVUgYX`i bXYfghUbX]b[ `cZH`Y`i bXYfd]bb]b[ `bUh`fU`UbX d\mg]WU`gWYbWg`UbX`hY`Yb[ ]bYYf]b[ `Z`bXUa`YbH`g`Udd`]WUV`Y`hc`hY`Yb[ ]bYYf]b[ `X]gWd`]bY	
D9%"&7 cbW`dh`U`i bXYfghUbX]b[ `cZH`Y`a`U`h`Ya`U`h]Wgž`bi`a`Yf]WU`UbU`mg]gž`gh`U`h`gh]Wgž`UbX`W`a`di`h`f`UbX`]b`Z`fa`U`h`cb`g`WY`b`W`g`k`\]W`i`b`X`Y`f`d`]b`h`Y`Y`b[ ]bYYf]b[ `X]gWd`]bY	
D9%"` `!XYdh`i`b`X`Y`f`g`h`U`b`X`]b[ `c`Z`g`d`Y`W`U`]g`h`V`c`X`]Y`g`c`Z`_`b`c`k` `Y`X[ `Y`k` ]h`]b`h`Y`Y`b[ ]bYYf]b[ `X]gWd`]bY	
D9%"(`8]gW`f`b`a`Y`b`h`c`Z`_`b`c`k` `Y`X[ `Y`X`Y`j`Y`c`d`a`Y`b`h`U`b`X`f`Y`g`Y`U`f`W`X`]f`Y`W`]c`b`g`k` ]h`]b`h`Y`Y`b[ ]bYYf]b[ `X]gWd`]bY	
D9%"`)? bck `YX[ Y`cZYb[ ]bYYf]b[ `XYg][ b`d`f`U`W`]W`UbX`W`c`b`h`Y`i`h`U`Z`U`W`c`f`g`]a`d`U`W`]b[ `h`Y`Y`b[ ]bYYf]b[ `X]gWd`]bY	
D9%"*`i`b`X`Y`f`g`h`U`b`X`]b[ `c`Z`H`Y`g`W`c`d`Y`ž`d`f`]b`W`]d`Y`g`ž`b`c`f`a`g`ž`U`W`W`c`i`b`h`U`V`]h]Y`g`UbX`V`c`i`b`X`g`c`Z`g`i`g`h`]b`U`V`Y`Y`b[ ]bYYf]b[ `d`f`U`W`]W`UbX`h`Y`g`d`Y`W`]Z`W`X`]g`W`]d`]bY	
9b[ ]bYYf]b[ `Udd`]WU]h]cb`UV`]m	
D9%"%5dd`]WU]h]cb`cZYghUV`]g\YX`Yb[ ]bYYf]b[ `a`Y`h`c`X`g`h`c`W`c`a`d`Y`i`Y`b[ ]bYYf]b[ `d`f`c`V`Y`a`g`c`]b[	
D9%"&`i`Y`b`h`U`d`]WU]h]cb`cZYb[ ]bYYf]b[ `h`Y`W`b]e`i`Y`g`ž`h`c`g`UbX`f`Y`g`c`i`f`W`g	
D9%"`5dd`]WU]h]cb`cZgmg`h`Y`a`U`h]W`Y`b[ ]bYYf]b[ `g`m`b`h`Y`g`]g`UbX`X`Y`g][ b`d`f`c`W`g`g`Y`g	
D9%"(`5dd`]WU]h]cb`cZgmg`h`Y`a`U`h]W`U`d`d`f`c`U`W`X`Y`g`h`c`h`Y`W`c`b`X`i`W`h`U`b`X`a`U`b`U[ `Y`a`Y`b`h`c`Z`Y`b[ ]bYYf]b[ `d`f`c`Y`W`g	
DfcZYgg]cbU`UbX`dYfgcbU`Uhf]Vi`hYg	
D9` "%9h`j]WU`W`c`b`X`i`W`h`U`b`X`d`f`c`Z`Y`g`g]cbU`U`W`W`c`i`b`h`U`V`]m	
D9` "&9ZYW]j`Y`c`f`U`UbX`k`f]h`Y`b`W`c`a`a`i`b]WU]h]cb`]b`d`f`c`Z`Y`g`g]cbU`UbX`U`m`X`c`a`U]b`g	
D9` "'7fYU]h]Y`ž`]b`b`c`j`U`h]Y`UbX`d`f`c!U`W]j`Y`X`Y`a`Y`U`b`c`i`f`	
D9` "( `D`f`c`Z`Y`g`g]cbU`i`g`Y`UbX`a`U`b`U[ `Y`a`Y`b`h`c`Z`]b`Z`c`f`a`U`h]cb	
D9` ") `C`f`X`Y`f`m`a`U`b`U[ `Y`a`Y`b`h`c`Z`g`Y`ž`]b`X`d`f`c`Z`Y`g`g]cbU`W`c`b`X`i`W`h	
D9` "*"9ZYW]j`Y`h`Y`U`a`a`Y`a`V`Y`f`g`\]d`UbX`h`Y`U`a`Y`U`X`Y`f`g`\]d	