



LOVD 2.0 MANUAL

Build 2.0-22

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7	01
&2	04
3 /	04
"6 3 \$	05
& 8&	05
"	0
96	0
& 6 / 2	0
*	0
*	0(
\$	0(
' #' 2	0)
6 ' 6 '6 6	0)
:	0)
7	1+
LOVD Gene configuration area.....	!
*	1
2	10
' 2	11
# 2	14
& 2	15
;	15
#	1
Gene "o# epage.....	\$
Variant and patient data.....	%
' 6 ' 2 #	1(
* ! # 2	1(
7 < 2	1(
&	1(
6 , # 6 '	1)
" ! 2	1)
#	1)
" 2	1)
& 2 #	4+
"	4+
& 2 6	4+
" 6 ' #	4+
' 2	4
& ' 2	4
& ' #	4
;	4
' 2	40
' #	41
' 2 #	44
' 2	44
' # - 6 6	44
'	45
\$ #	4
"	4)
Sub# itters.....	5&
:	5+
= # ' #	5+
= # ' ,	5+
LOVD Scripts.....	5!
' 6 #	5

Table of Contents

Installing LOVD

\$ #

Configuring LOVD s-ste# settings

6

6

#

#

' 6

'

6

'

LOVD Setup

```

& ! ' 6 ! # 2 6 ' 6 #
 6 # 2 ' 6 ' 6 # # ' A
 6 '6 6 < , 2' 6 6 2' ' 6 '6 6 # $ ' " # < , 2'
 6 # # ' 6 6 2' ' 6 '6 6 # # ' " #
2 A # ' 6
& A 6 A , A
' 2 A #

```

```

6 # A ' 6 ' ' ' A 6 6 E
6 <

```

General s-ste# settings

```

6 # 6 6 2 # ' A 2 6
Title of t" is LOVD installationJ 6 # C ! # C
Database locationJ 6 # 6 # $ E # A
6 - 6
Database ' 5LJ 6 6 7: 6 6 6 6 A
6 7: ' '6 6 6 7: ' C
# $ , 6 C 6 ,C ,A # 6 2 6 C 6 ,C #
2 2 6
LOVD e# ail addressJ 6 2 A # 2 # 6 #
& 6 '6 # , ' 6 A 6
2 , 6 -
'6
6or* ard # essages to database ad# inJ 9 6 6 ' A A 6
6 /nable 7) - Sub# issionsJ E3 " E 6 6 ' 6 6 ' < ,
' 6 6 E2 6 6 , 6 ' 6 6 '
# 6
/nable searc" ing t" roug" " idden entriesJ ' 6 6 # 6
6 6 - '6 6 6 ' 6 6 6 A
# 6 6 ' 6 6 6 2 6 6 A
6 6 ' 6

```

Global LOVD statistics

F
 6 # # A 6 6 2
 6 # 10 6
 Send signatureJ 6
 6 # # # 6 A 6
 Send statisticsJ 6 6 A A # 2
 6 6 6 A A # 2
 Include in t"e global LOVD listingJ A # # \$
 6 A E A 6 7: 6
 2 \$ 6 ' 6 'A# 6 ' ,

Securit- settings

6
 ' se coo8ies for user aut" enticationJ # 6 \$
 6 # 6 # 6 7: A # 6 6 7:
 6 A ! 6 6 6 7:
 # 6 8 2 A 6 6 # 2 6 6
 6? , E " 2 ' 6 # 6'6 # 6
 ' se SSL onl- to access LOVDJ "" # # A 6
 6 'A 6 # 6 E E 6 , \$
 2 A ' ""
 (ide non2public entries fro# t"e uni9ue : ariant listingJ \$ 6 A
 !# 2 # 6 < 2 ' \$ 2 , 6 !#
 2 A ' # 6 6 6 6 ' 6 6
 #
 Loc8 curators after rd failed loginJ 6 6 A - ' . A
 , 6 6 6 2 # 2 6 ' # 6 & ' A
 6 ' A 6 , 6 E
 E ,
 Loc8 sub# itters after rd failed loginJ 6 6 A ,
 6 6 6 2 # 2 6 ' # 6 & ' 6
 , 6 E E A ,
 3llo* loc8ed users to retrie: e a ne* pass* ordJ \$ A ' A 6 6 I
 6 # A ' 6 C\$ ' # C 6 6 2 , '
 6 6 6 6 , 6 6 #

Legend settings

6 & A 6 #6 #
 6 < 6 2
 List of possible diseases associated * it" # utations in t"e a: ailable genesJ "#
 #6 # 6 6 ## 6 '
 #6 # 6 \$ #6 # # A 6
 6 #6 #
 List of a: ailable detection tec" ni9uesJ "# 6 < ## # 6
 ' 6 A 6 < 6 #
 6 6 ## 6 ' # A 6
 6 < - . 6 \$ 6 < # A 6
 6 6 <

```

2 # A E ' 6 '
6 '6 6 # A A - 2 ' 2 # 6 '
6 E2 # ' ' A
' ' E 2 6 '6 6 '

```

Creating new genes

```

6 ' 6 ' A ' ' 6
# ' 2 # & ' A 6
6 # # AC* CA 6 C ! # C
# 6 # 6 #

```

General information

```

6 # 6 6 ' G 6 ' A '
6 E & 6 G 2 #

```

Links to information sources ; optional

```

# ' A # , 6 # 6
/* A 3$3A 8*3 A * 6 # 6 #
B O+ 6 # * , 6 ' F # 2 * , $ A
# # A 6 6 3 / 6 * ' &
A 6 < 6 ' E < # 6

```

Customisations ; optional

```

# 6 ' 6 # ' 6 ' A 6 A A
6 6 6 6 2 '

```

Security settings

```

7 ' 6 ' ' ' $
6 6 # 6 # , 6 9, _____ # E 2 A 6 6
#

```


6 2 # 0+ ' & A
6 6 2 2 A # 6 8* " A
6 6 6 6 6 2 #
A A 6 6 6 2 6 2 #
2 A 6 , & 6 2 #

Variant : s. patient colu# ns

6 6 2 6 # #
' A 6 # ! # 6 A
' ' 2 2 6 ' A 6 # 6 '
6 6 ' 6 6 #
8 2 A ' ; A 6 # 6
6 # ' ' 6 A ! ' 6
6 A , 6 6 6 E ' 6
' A , 6 , 6 E ' 6

) anaging patient colu# ns

! ' 6 # A , 6 C& # ! '
C , 6 # F ' # 6
2 A # 6 # , 6 6 A
' #
6 6 2 6 # A 2
2 - 6 E 8* " 6 # 6
6 C3 ' # C , 6 #
6 2 2 6 6 # 6 6 6 2 6 #
' , 6 6 A 6 6 #
6 ' 6 6 6 6 # 6 2 2 2 A , 6
C 6 ' C & # # # 6 2
' ' 6 # 6 6 , 6 C 6 ' C
2 6 6 ' 6
, ' 6 6 2 2 # 2 2 , ' 6

/dit colu# n displa- settings

F , 6 ' 6 A 6 ## \$ E 6 6
A 6 , 6 '

5eset colu# n to current defaults

6 6 6 ' A ' ' 6 ' 6 2
6 E ## 6 6 ' A

Delete colu# n fro# patient table

6 8* " A # 2 6 # 6
6 2 # 2 6 #

Creating new columns

```

7 ' 6 C          C , 6 #          2
#           A 6 6          2          #          6 2
6 #
    
```

Column name and descriptions

```

Category-J "      6 #          2          F      E 6 ' 6 2          0
Column IDJ 6      # <          A      '      A
      "      '          2          6 -I.A 6 C 6 # I      C
      E      IE E      IE 6
Column " eadingJ 6      ##          2 6          6 2      '          6 ' $
# # A 6          A      , # 6 A          '          6 6 6
    
```

```

Description on for# J$      6 , 6          <          #          6
      6 #      6 A          # 6
Description on s" ort legendJ      6      ' 6          6 6      ##          6
6      ' A      6 2
Description on full legendJ      6      ' 6          F          6
6          6 6      '
    
```

Data settings

```

6          #          6          #          6
6      # / A 6 6          6 3 ">          6 # 2
6      E      'A          6 3 ">          # 6 #
      6 # / A          6 #
      J
>asic for# st-leJ "      6 #          J
.          #          #          #
.          #          ' 6
.          #          ' 6
.          '          6 # A      '
.          #          6 #          6 6 6
.          6 2
.          6 6
# - , 6          6 <          . - A 6A .A #
.      ' -6 A      A          #
.      /      # 6 ,          ' I
    
```

```

6 # ' 6          # 6 #          6 #          E2 6 J
Column name on for# -      # .J 6          6 2 6
? idt" on for# -      #          .J 6 #          6 6 A
6
) aOi# u# input length" -      ' #          # .J 6          6
      6          $          6          A
Regular expression pattern -      # .J ;          2          A
# #      - 8 E ! #          ' #          .A      ' 6 I
#          7 ' 6 A          6 #
4u# ber of digits before t" e deci# al point -      .J 6
      6 #      6 #          6          2 6
4u# ber of digits follo* ing t" e deci# al point -      .J 6
      '          6 ' 6 6          # 6          6          #          2          6
    
```

```

3llo* onl- positi: e : alues - ' .J" 6 # 2 6
3lso store ti# e - .J" 6 -6 A A . 6
(eig" t on for# - # .J 6 6 '6 6
A
1ro: ide @22 select 22@ option - # .J& C!! !!C # 6
# A 6 $ 6 # A 6 # 6 6
#
1ro: ide @select all@ lin8 - # .J& C C ,A 6 6 6
2 # 6 6 ,
List of possible options - 6 # .J 6 # 2 6 A # #
$ 2 A J& 2 P ' A , C 3 P 6
3 #6 C
Default : alue - # # .J& 2 6 ## 6

96 , 6 C; 6C A 6 # / 6 C3 "> # C C;
# C

```

Colu# n settings

```

Standard for ne* genesJ 6 6 6 2 6 6 # A
' & 2 6 6 #
6 2
) andator- fieldJ 9 6 6 # A E 2 #
S"o* contents to publicJ 9 6 6 # A 6 / 2 6
6
S"o* field on public for# sJ 6 # 6 6 2
6
Include in searc" for# J 6 # 6 6 6 6 6 #
6 2 2 6 6 # 6 6 6 - '
6 6 ' 6 #

```

/diting custo# colu# n default settings

```

& 2 6 # ' A # 6 '
' 6 #
6 J
• 6 2 ## ' # '
• ' A 6 2 # 6 2
• $ E ' # 6 2 A 6
6 6
6 # ' A 6 ' 6 ' 6
2 6 6 # 2 ' 6 6 # A ' 6 ' 6
2 6 A , 6 3 "> # # F 2 6 ' ##
6 ' G
• F - . 6 - . ' A ##
6 ' 2 6 #
• F 6 2 6 ' ## 2 ' # ' A
# 6 6 , C## 6 ' # 6 6 2 C
6 6 , C## 6 ' # 6 6 2 C 2
6 6 , ## 6 6 6 6

```

\$ 6 6 ' 6 6 6 2 ## ' 6 C 6 ' A
, 6 C3 ' ' .C ' C , 6 # , 6 C 6 ' A

/dit colu# n default settings

6 ' A , 6 C3 ' ' C
, 6 # A 6 ' 6 C ' C ,
6 6 # 6 ' , 6 C

/dit colu# n ID -

; 6 6 6 2 A 6 ' 6 \$ - 6
6 6 A 6 C I B&C. 2 6 6
2 !2 A 6
6 6 C3 ' 6 6 #
A 6 A , 6 C \$ C , # 6 , 6 #

Deleting custo# colu# ns

6 2 # 6 A
, 6 # # 6 ' ; A
6 , 6 C3 ' 2 6 6 # A 6
A , 6 C C , 6 #

Do* nloading custo# colu# n data to teOt files

6 # , 6 6 A ## # ' 6
A 6 6 # ,

\$ 6 # A , 6 C C , 9
6

I# porting custo# colu# ns fro# teOt files

' A ' 6
2 6 # 9 6
6 6 6 2 # \$ 6
A # 6 6 6 ' , J
LLL !2 0+++! 5+ LLL LLL 2 6 0 LLL
6 6 6 6 6 6 B
? # # \$ # 6 6 6 A

2 6 # 6 A 6 6 6 2 ' 6 2
 6 / 6 2 G 6 6 2 6 ' # 6 2 6 /
 6 6 6 6 A ' A
 6 3 ' 6 2 6 2 6 ' A # ' 6 ' 6 ' ##
 6 2 6 # 6 ' 6 ##

' ser le: els

' A ' A # 6 6 2 6 " 6
 A ' A A 6

Database ad# inistrator

6 6 6 G 6 6 ' 6
 & A 6 6 - ' 6
 . 6 A 6 6 6 A # 2 6 ,
 6 6 C; ' 2 # C ' 6 ' A
 6 2 # ' 2

) anager

& ' 6 2 6 ' 6 6 & A 8 2 A 6
 ' 2 6 , # ' & A
 & ' 6 6 ,
 2 6 6

Curator

& 6 ' 6 6 ## & 6 6
 2 2 ' A # ' 6 < 6
 ! ' 6
 F 2 ' 6 / ' 6 E ' 6
 6 C C

Creating ne* users

```

055 F , ' 6 C
6 / C , 6 #
$ 6 A 6 6 E 6 6 ' E 6 # '
2
$ 6 6 6 ? 2 A ' ' ' 6
6 6
3 6 # '6 A $ 6'6'6 6 J
'serna# eA < 6 4 O+ 6 ' 6
A A A 6
1ass* ordA < 6 # 4 6 'A '
# 6
4u# ber of entries per pageA 2 # 6 2 A 6 2 '
# # # ' 8 # 6 2
6 # '
3llo* ed l1 address listA & $ # , 6 ,
6 ## 2 6 ' 6 I# A 6
6 $ ' 6
6 2 6 6 'A ' 2 ,
6 A A 2 M

```

/diting users

```

$ 6 A # 6 CF C , 6 # '6!6
6 A 6 6 2 2
; 6 # A , 6 C3 ' 6 / C , 6 6 6 6 /
A 6 E 2
6 " # 2 < , 2 6 E J
6 ' ' '
6 ' ' '
6 6 6 6 '
" 6 6 A 6 E 2 6 A ,
6 , C C 96 ' A 6 , C7#
' C 6 6 '
6 6 6 CB # C # 6 ' A 6 2
6 6 6 ' ' 6 # 6

```

Loc8ing users fro# t" e s-ste#

```

& ' A , 6 6
& 6 ' # 6 ' A 6
6 l6 A# 2 6 ' - 6 E 2 $ 6
' 6 C , C , 6
6 C , A 6 , C7 , C
6 C , C C7 , C , 2 < , A
6 '6 6 # 6 6 '6 6
7 6 ' ' A 6 $ ' ' A , , '
C; ' C 6 6 E 6 E ' , '
6 A 6 '6 6 E # 6 6 6 6
# A 6 '6 6 E # 6 ' , 6
,

```

Deleting users

```

!# " 6 6 2
2 A# A A , A# ' 6 6
6 E 2 6 6 ' 6 A 6 6 A
6 # 6 , ' 6 E 2 6 & 6 E 2 2 E
$ 6 6 6 E ' 6 E 6 , ' A 6 A 6 6
' 6 6 E #6 E' $ # 2 6 A , 6 ' 6
6
; 6 E 2 A , C C 2 6 6
' 6 6 2 6 ' 6 6 & , ' 6 , A
# 6 # & A , 2 ' A 6

```

Assigning curators to specific genes

```

& ' ! 2 6 6 2 ' A 6 6 &
6 ' 6 6 2 ' A 6 6
' A 2 6 , A ## ' 6 2 &
3 ' ! 2 6 6 2 ' 6 6 6 ' 6 $ #
' ' A 6 2 6
' ' A 6 6 ' ' & 6 6
C 2 ' " 6 ' - . C , 6 6 C
' A , 6 C" C , 6 '

```



```

' A 6 "6 , 6 , 8 ' 6
, 6 , ' 6 6 ' A 6 6 ' "6 , ' 6
6 ' 3 6A 6 , 6 6 ,

```

' 6 2 6 6 6 ' A 2
 # 6 6 6 2 # ' 6 ' A
 # 2
 ! ' ' ' 6 A '
 6 / A 6 A

Creating ne* sub# itters

5515 " 6 2 A
 # 6 A , 6 C C , 6
 6 ' # # # # A
 \$ 6 C \$ 6 2 .C A
 # 6 2 A
 2 6 6

/diting sub# itters

; 6 # A , 6 C3 ' C , 6 6 6 6 / A
 6 E
 6 " # 2 < , 2 6 E J
 6 ' ''
 6 ''
 6 6 6 '
 " 6 6 A 6 6 E 2 6
 A , 6 , C C 6 6 6 ' A 6 2
 6 6 6 CB # C # 6 6 ' A 6 2
 6 6 6 ' ' 6 # 6

Deleting sub# itters

6 2 2 # 6 # !# " 6 6
 2 # A # ' 6 6
 , # ' , 6 # 6 6
 & E 22 E ' 6 E A 2 6 6
 E E 6 , 6 , ' 6
 ; 6 E 2 A , A C C 2 6 6 6
 & ' 6 , A ' 6 6
 # \$ 6 6 A 6
 # , ' 6 C C ,

/diting lin8s

; 2 2 6 2 , A , 6 C3 ' , C , 6 ## ' , '
6 , 6 2 2 ' 6 # , '
6 , , A , 6 C , C
6 2 6 ,

Deleting lin8s

96 ' , A # 2 96 6 , A 6
, A 6 6 # ' 6 # \$ 6 C& 2 C #
2 2 # 2 , A , 6 C , C 6 , E
#

```

/
 6 # 6 ' 6 6 6
 A # 6 6 E
 # 6 2 # ' 2 2 A
 ' 2 # # 6 2 # 6
 2 A 6 # 2 < " A ' 6
 6 ? 2 ' 6 6 6 & 6A
 A 6 6 A 6 6 $ E 2 6 ' 2
 6 7 ' 2 6 A
 ! 6 6 , #
 A 6 6 A 2 # 6 J
 ) utal-=er no# enclature c" ec8er # odule ! 6 2 6
 B& 6 ' 2 6 , 6 6 3 / 2
 S" o*) aOD>ID ! 6 2 6 # 6 ## 6 !$
 reC31TC( 3 ! 6 # ' , '
 #

```

Installing # odules

```

' 6 A 2 6 2 A
 #' 6 # 6
 E
 6 2 C , 6 " # F A , 6 C" ' 6 A
 ? , 6 6 # ' # A J 6 E ?
 E 6 E
 & , ' CB NNCA 6 6 6 # # # $
 2 6 ' =A # 6 6 6 2
 6


```

/nabling or disabling # odules

```

E 2 6 B 2 A
 2 2 A , 6 C3 ' C , 6 " #
 & A 6 C& 2 C 6 6 6
 2 A E 6 ' 6
 96 E $ 6 2 A # , 6 C C , $ 6
 A , 6 C C , 6 6 ' ##

```

 : # A ' A 6 E ' \$

' ninstalling # odules

\$ 6 E & A E 2 ' ' A 2 A E
 6 # 2 E ' A E
 - A , 6 C3 ' . C , 6 " # A
 6 6 A 6 ' 6 A 6 C7 C , C ,

3: ailable LOVD # odules

6 6 6 6 6 A 6

) utal--er # odule

6 3 / 2 # ' 6 6 8* " A
 6 2 6 # ' 6 3 / 6 6
 6 , 6
 ; 3 / , 6 A *
 F # 6 ' 6 6 3 / * , # 2 6 2 3 / ' E
 A 6 6 ' 6 3 / * , \$ ' 6 ' E
 F # * , A 6 6 6 3 /
 6 : " < #

' sing t" e) utal--er # odule

6 A 6 2 2 ' 6 6 6 * ,
 A C 6 , 2 6 3 / + 4C 6 C B& # #
 6 ' C ; 2 6 C B& 6 ' C A , 6 & # #
 #A 6 6 6 < 6 3 / 2 ##

Troubles" ooting

2 A 3 / # 6 * , 6 2 * , 6 6
 6 6 6 # 6 6 , 3 / ' , 6 6
 , 2 6A ! 6 6 6 ## 6 6 '
 J
 F 6 2 * , # A
 0 F 6 2 # * , 3 / A 6 2 ## 6 6 '
 3 / 7
 6 A 6 ' J
 E * , A ' B \$ * , \$ A
 0 7 6 3 / : \$ E 2 ' , E * , A 6
 ' 3 / ' \$ E 2 ' , E * ,
 : 6 E 6 2 6 6
 6 # 2 3 / 6 6 6 * , 6
 6

S" o*) aOD>ID

6 A 6 \$ 2 6 2
 < , 6 \$ 6 , ' 6 , C #
 C

reC31TC(3

6 # & 8& 6 # ' A
 CC # ' 3 1 T ' C # (3# C \$ 8&
 6 < # 2 6 # # ' < 6
 ' A # # 6 # 6
 < A A ' 6
 6 & 8& # ? 6 6 6 6
 & 8& 6 \$ ' & 8& 6 6 ' A ' 6
 ' 2 6 ' & 8& 2 6 A 2 6 6
 ' / # #

" ' O + 6 / # ' 2
 6 # # A 6 6 E # ' 6 ' ' ' 6 A ,
 6 ' 6 6 ' 6 C" ' C
 6 " #

? " at is logged b- LOVD

' # 2 J 6 / 2 A ' 2 A ' A
 # ' 2 \$ 6 2 ' ' 6 / A 6
 6 ' '

3ut" ori=ation e: ents and errors

6 6 ' # 96 E 6
 , A 6 ' 6 6 \$ 6 ' # 6 2 & A 6
 # 2 # ! # 6 , < ,
 2 ' 6 '

\$%	& / '
& 6	7 # ' "6 \$ A6 A A 6 ' 6 6
& 6 ' # 2 #	# ' "6 \$ A6 A A 6 ' 6 6

General e: ents

* 2 2 ' ' 6 E 2 A ' , 6 6 E
 2 6 , 6 6 ## 2 #

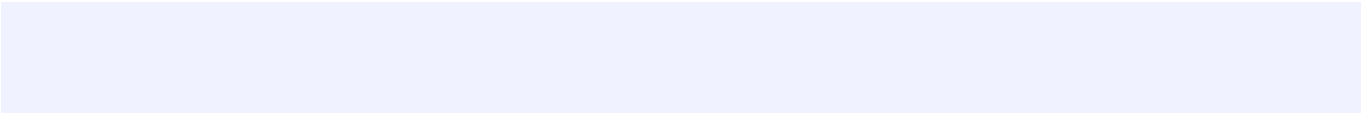
\$%	& /'
&	& 2 6 A 6 ' 2 # 6 # \$ 6 6
	& 6 6 #
	& [# ' ' 6 2
: 2	& 2 6 2 A 6 ' 2 # 6 # \$ 6 6
:	& E # ' 6 ' ' 6
'	" E ' ' 6 2
; ;B:	" ; : # 6 6 ' 6 ; : #
*	" ' ' 6 2
* #	' E 2
*	& ' E ' 6 2
* #	& ' E 2 6 2 2
,	& # ' , 6 \$ 6 , 6 A 6
,	# ' , 6
,	& # ' , 6 \$ 6 , 6 2 A 6
3	" - .
3	" - .
3 "	" A ' /
3 7	" - 2 .
#	& # E 2 6 2
	& # 6 6 / A 6 / A 6 ' 6 2
"	& 6 ' ' 6 16 96 6 16 A 6
" B	& # 6 ' 6 6 ' A # \$ 2 \$
" & '	& 6 ' # A 2 #
"	& 6 6 /
" #	& 6 6 6 !#
"	& 6 6 /
" ' #	& # 2 6 # 6
" : ' #	& 6 ' 6 16
7	& 6 / 6 ' ' A 6 6 6 / 6
7	& 6 / 6 A 6 ' ' 6 / 6 6'6 2 96 6
7 #	& 6 / 6 6 6 / 6 6'6 2 6
7	& 6 / 6 A 6 ' ' 6 / 6 6'6 2 96 6
7 ,	& 6 / 6 , 6 6 / 6 6'6 2
7 7 ,	& 6 / E 6 , 6 / 6 6'6 2
#	& 2 6 ## # \$ 6 6 # E 2 A 6 #
	& 2 6 6 6 / 6 6 2 E #
\$ #	2 # # 6 6 6 #

LOVD Setup

LOVD Setup



“ # A # 2 \$ 6 6 • À p

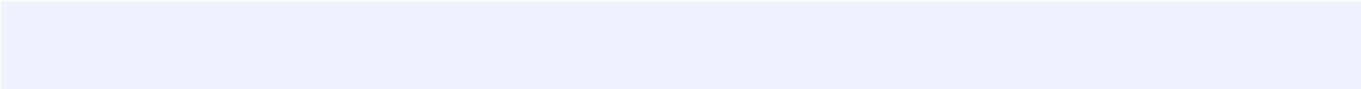


LOVD Gene configuration area

6 ' 6 E ' E 6 # 6 / E ' E A
, ' 6 E ' E 6 \$ E ' E A

LOVD Gene configuration area









LOVD Scripts

' pdating LOVD

& 2 6A A 6 6 3 6
 6 & # ' A A 6 # A # #
 6 6 A 6 # 6 # ' 6 # #
 6

' 6 6 6 6 6 6 # 2 A

6 ' 6 !6 6 J



6 # 2



6 # 2



6 6 6 , ' #

\$ ' ' 6 / A , 6 #
 6 6 # \$ # 2 A # J

Last c" ec8ed for updatesJ " 6 6 6 , #

Latest : ersionJ " 6 6 #

5elease dateJ 6 6 # 6

1riorit- le: elJ " 6 6 # 6 2 # 6 #

E # EA E EA E" ' EA E: EA E\$ # E [CriticalEA 6 ' #

5elease infoJ \$ 6 6 ' 6 6 2 6 6 6 6

2 6 # & # 6 6 ' ' 6

If -ou c" oose to upgrade LOVDB follo* t" ese stepsA

Do* nload t" e ne* build. 6 ' 6 , 6 # A 6

0 ' npac8 t" e ne* build 2 6

1 \$ E , ' 6 A upload t" e updated files 2

4 Log into LOVD. 6 # # \$ ' ' A # 2 A

, , ' 6 8 6 #' 6 , 6

, , 6 6 2 6 " , ## ' 6 # , 6

5. Cou7re done!

, eeping -our data secure

6 # ' # 2 # # # # 6 /
6 6 # \$ # 6 , # # A

& # < # ' E 6 ?
2 , 6 , # ; 6 A 6 6 6
" 6 # , ' # ' A # #

1rotection against SEL infection

"> ? 6 # ' "> ? A ' 6 6 ' A 6 ' 6
6 # "> ? 6 / 6 6 6 ' A

1rotection against Cross2site scripting ;GSS<

! # ' 2 6 D 2 #
' A 6 ' 6 ' # A ' 2 6 6 '
6 # ' 6 A A

1ass* ord protecting data # anipulation for# s

2 # 2 # # 6 #
6 ' ' A # # # # 6
A # < 6 6 ' 6

/
 & 6 # A ' 6 , , 2 6 6 6 2 # 6 , '
 6 : 6 6 #
 C"oose -our pass* ord carefull- and protect it. 2 6 '6 #
 < 6 ,A # , 6 ' # 6 ' 6 #
 E 6 & A E , , #
 #
 0 Don7t lea: e -our co# puter unattended * " ile logged in. 6 ' 2 6 #
 # 6 & A E 2 #
 E ' ' 6 #
 1 ' se coo8ies. 3 , 6 C7 , 6 C ' 6
 ' A 6 6? , E
 4 ' se SSL. & , " " -6 # . 6 2
 A 6 C7 " " C # 6 ' #
 6 # 6 ' A 6 # 2
 #
 5 Don7t allo* access to -our LOVD files or t" e database to ot" er users on t" e ser: er. \$
 6 6 ' 6 2 6 2 6 A , 6 6
 ' 6 E
 Verif- LOVD # odules. 3 6
 E E E