Electronic Supplementary Material (ESI) for Molecular BioSystems
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Supplementary File 1

For each pair of data sets is shown the statistical analysis of their overlap :
- the number of genes tested and identified in each data set
- the number and the list of overlapping genes between the two datasets
- the pvalue and the distribution of overlap sizes obtained by random simulation. For each data set, the same number of genes as identified were randomly drawn from a background simulating the set of genes tested. The overlap size was collected, and the procedure repeated 1,000 times. The 1,000 overlap sizes were plotted. The observed value of overlap size is indicated by the vertical arrow, and its significance is given.

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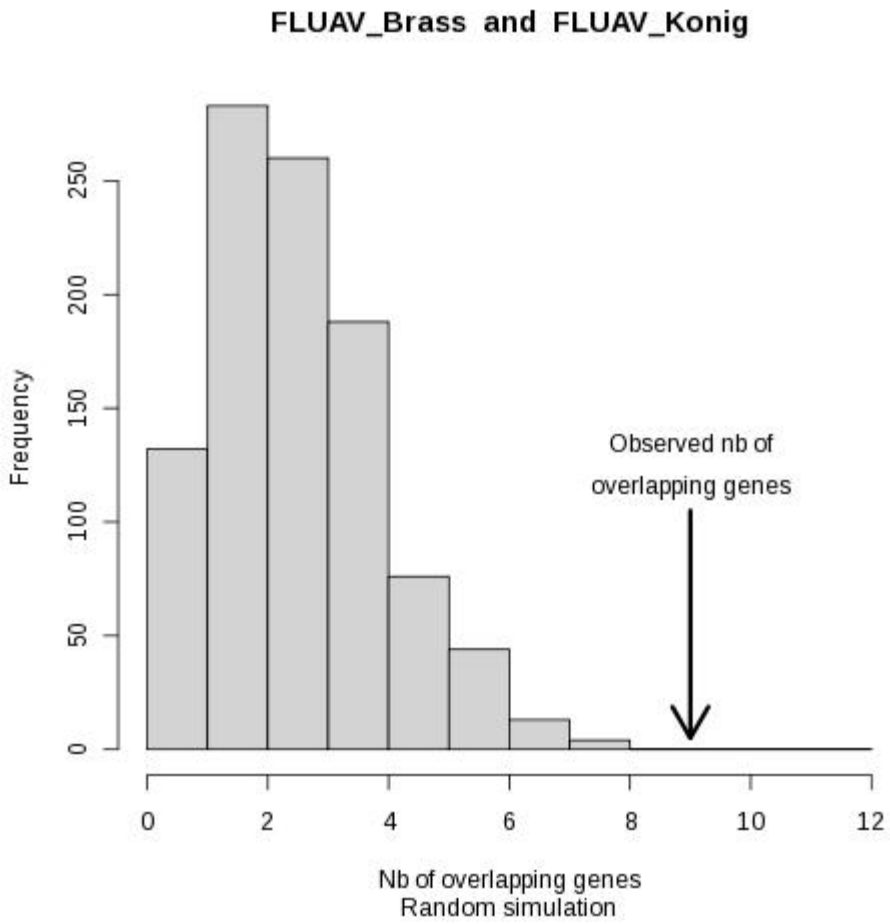
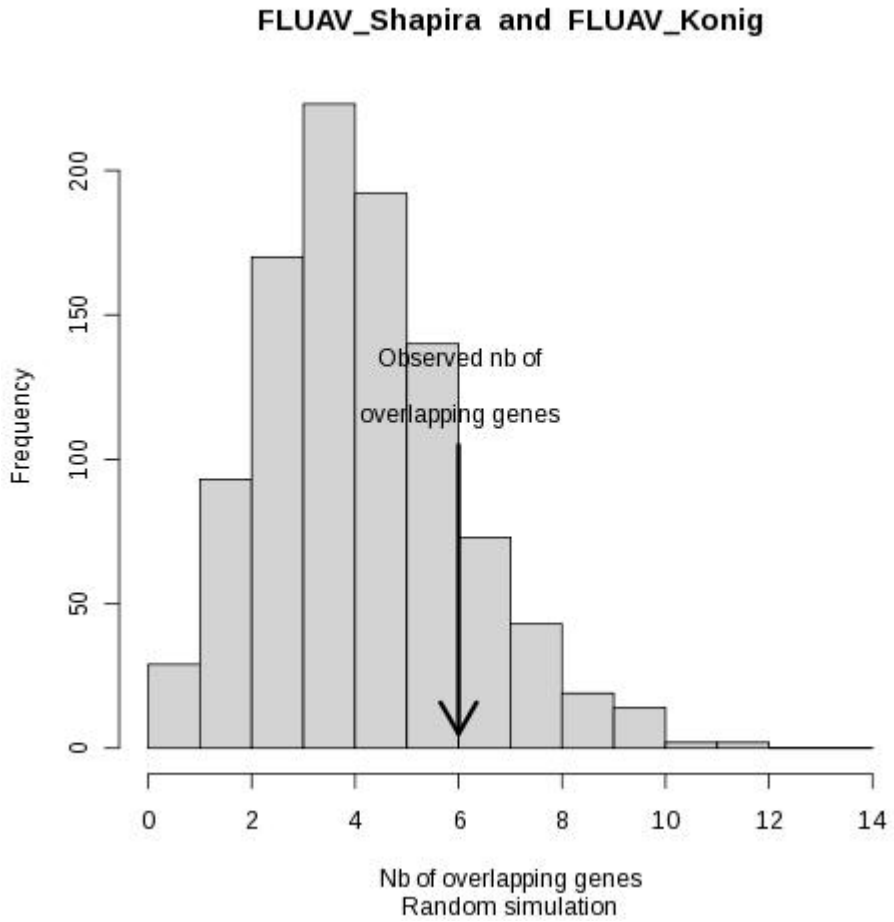
1. FLUAV_Brass vs. FLUAV_Konig

FLUAV_Brass: 17877 genes tested, 133 genes identified
FLUAV_Konig: 19628 genes tested, 295 genes identified
Number of overlapping genes: 9
List of overlapping genes: ARCN1, ATP6V0B, ATP6AP1, COPA, NHP2L1, COPB2, TRIM28, COPG, WDR18
Number of simulations showing 9 or more overlapping genes: 0/1000
P-value: < 0,001
Random distribution:



2. FLUAV_Shapira vs. FLUAV_Konig

FLUAV_Shapira: 1745 genes tested, 242 genes identified
FLUAV_Konig: 19628 genes tested, 295 genes identified
Number of overlapping genes: 6
List of overlapping genes: COPA, FGFR2, MAP2K3, RBCK1, EPHB2, PIK3R4
Number of simulations showing 6 or more overlapping genes: 153/1000
P-value: 0,153
Random distribution:



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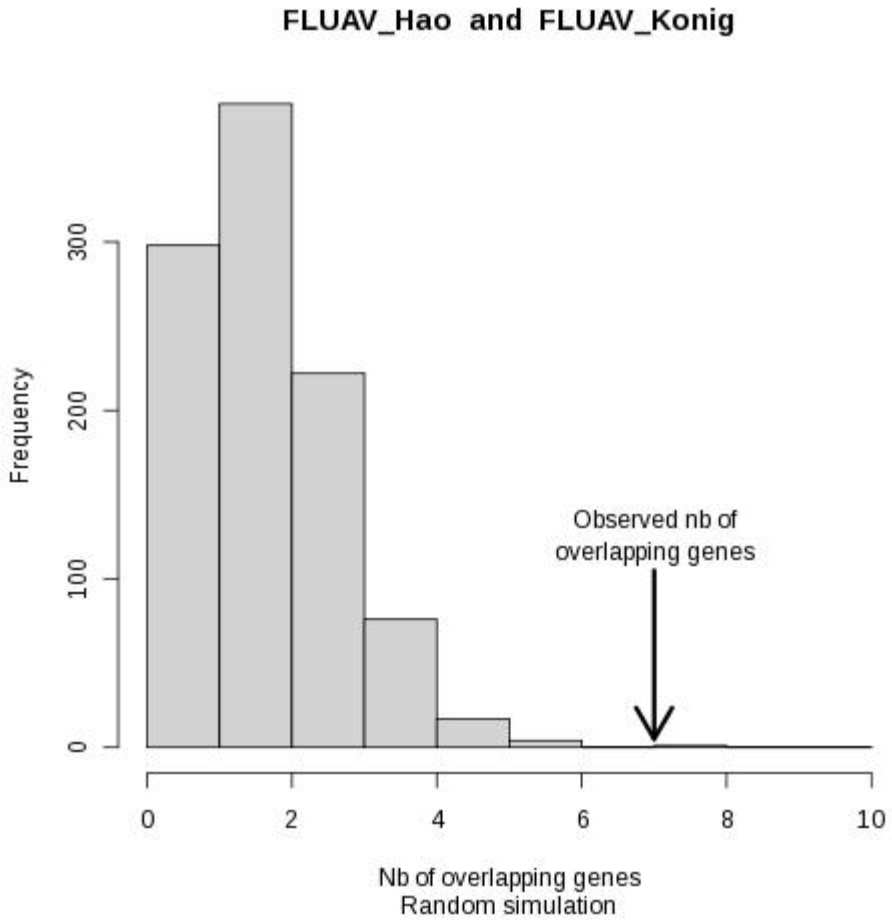
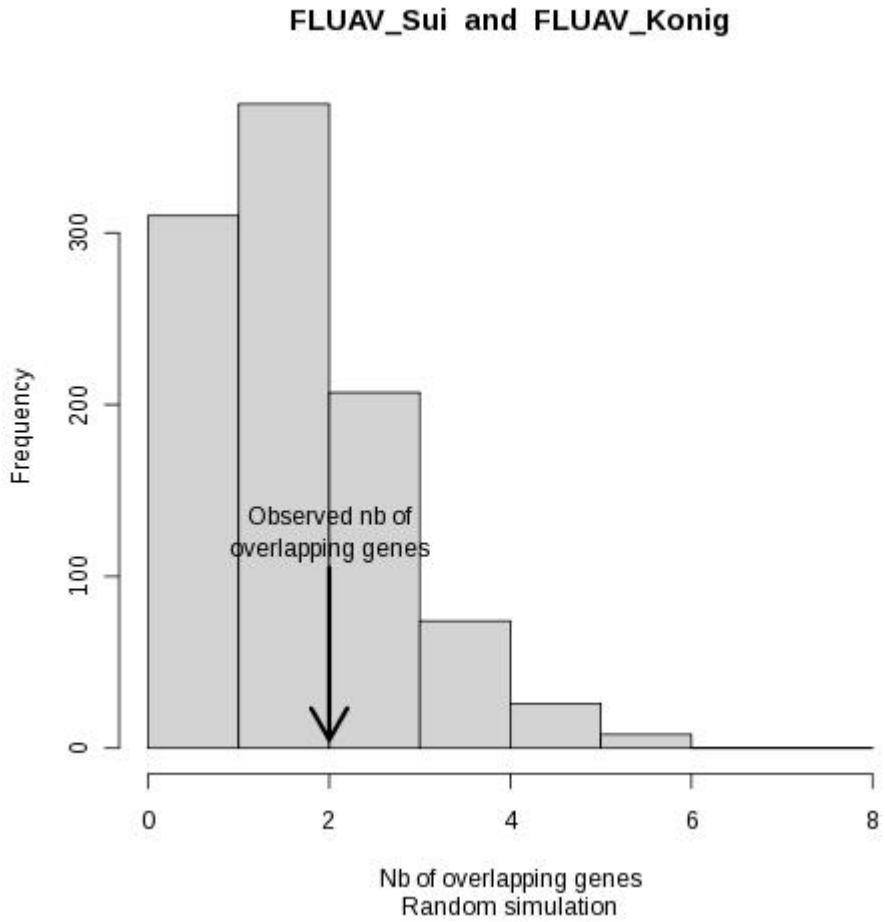
3. FLUAV_Hao vs. FLUAV_Konig

FLUAV_Hao: 10278 genes tested, 78 genes identified
FLUAV_Konig: 19628 genes tested, 295 genes identified
Number of overlapping genes: 7
List of overlapping genes: ARCN1, ATP6V0C, RPS10, RPS20, ATP6V0D1, HAND2, COPG
Number of simulations showing 7 or more overlapping genes: 1/1000
P-value: 0,001
Random distribution:



4. FLUAV_Sui vs. FLUAV_Konig

FLUAV_Sui: 25157 genes tested, 99 genes identified
FLUAV_Konig: 19628 genes tested, 295 genes identified
Number of overlapping genes: 2
List of overlapping genes: AKT1, GRK6
Number of simulations showing 2 or more overlapping genes: 315/1000
P-value: 0,315
Random distribution:



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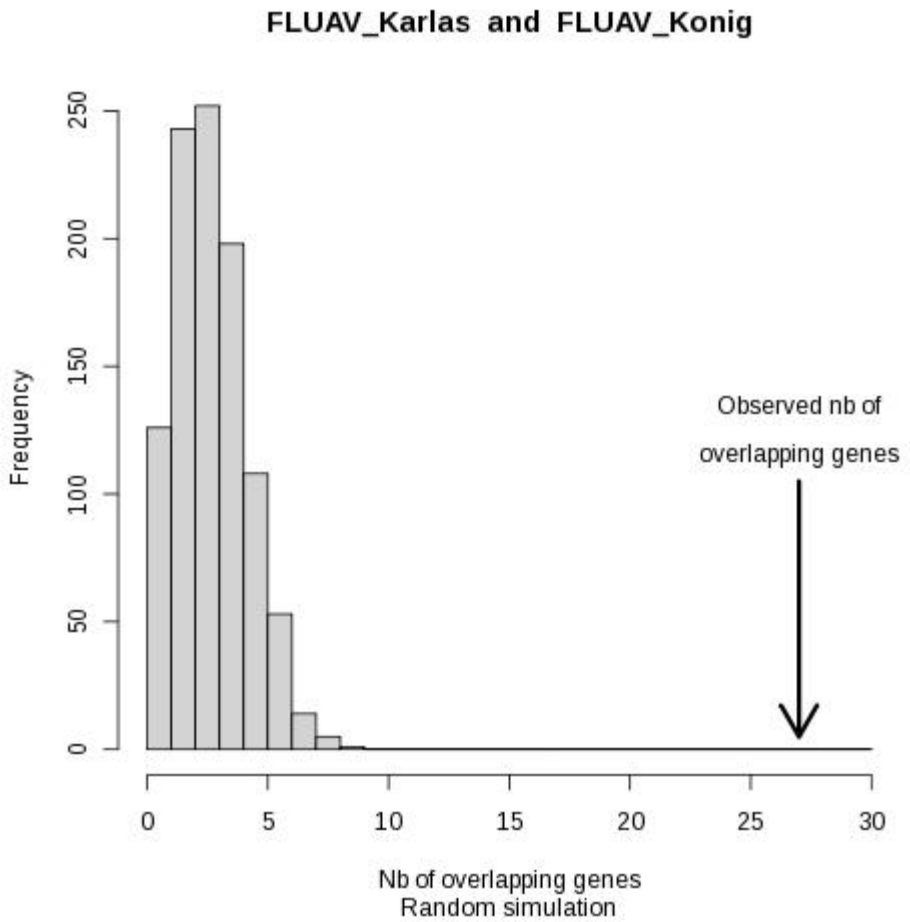
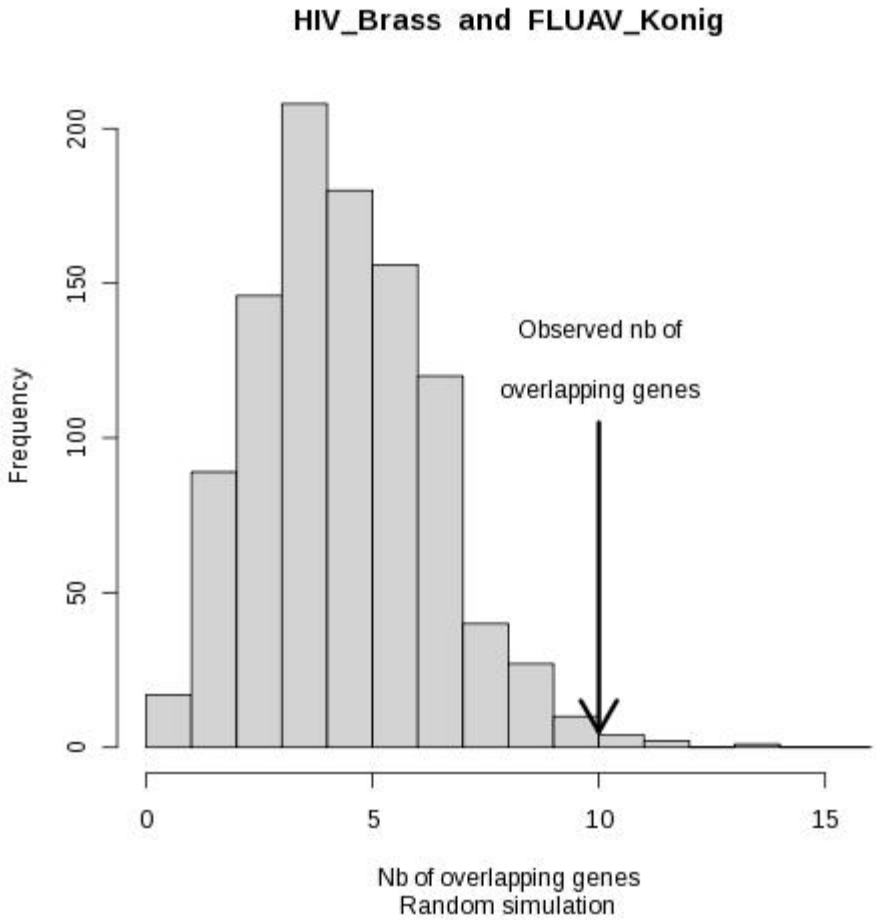
5. FLUAV_Karlas vs. FLUAV_Konig

FLUAV_Karlas: 22843 genes tested, 168 genes identified
FLUAV_Konig: 19628 genes tested, 295 genes identified
Number of overlapping genes: 27
List of overlapping genes: ATP6V1A, ATP6V1B2, ATP6V0C, ATP6AP1, CD81, CLK1, PLK3, COPA, JUN, KPNB1, PHF2, PTPRN, RPS10, SNRP70, ATP6V0D1, BZRAP1, COPB2, ATP6AP2, TNK2, SIGMAR1, SF3A1, COPG, IL17RA, RACGAP1, PPP1R14D, PSENEN, DCLK2
Number of simulations showing 27 or more overlapping genes: 0/1000
P-value: < 0,001
Random distribution:



6. HIV_Brass vs. FLUAV_Konig

HIV_Brass: 21121 genes tested, 280 genes identified
FLUAV_Konig: 19628 genes tested, 295 genes identified
Number of overlapping genes: 10
List of overlapping genes: XIAP, NUP98, SNRPD3, AQR, NXF1, SLU7, PRPF8, SF3B2, SF3B1, SAMM50
Number of simulations showing 10 or more overlapping genes: 7/1000
P-value: 0,007
Random distribution:



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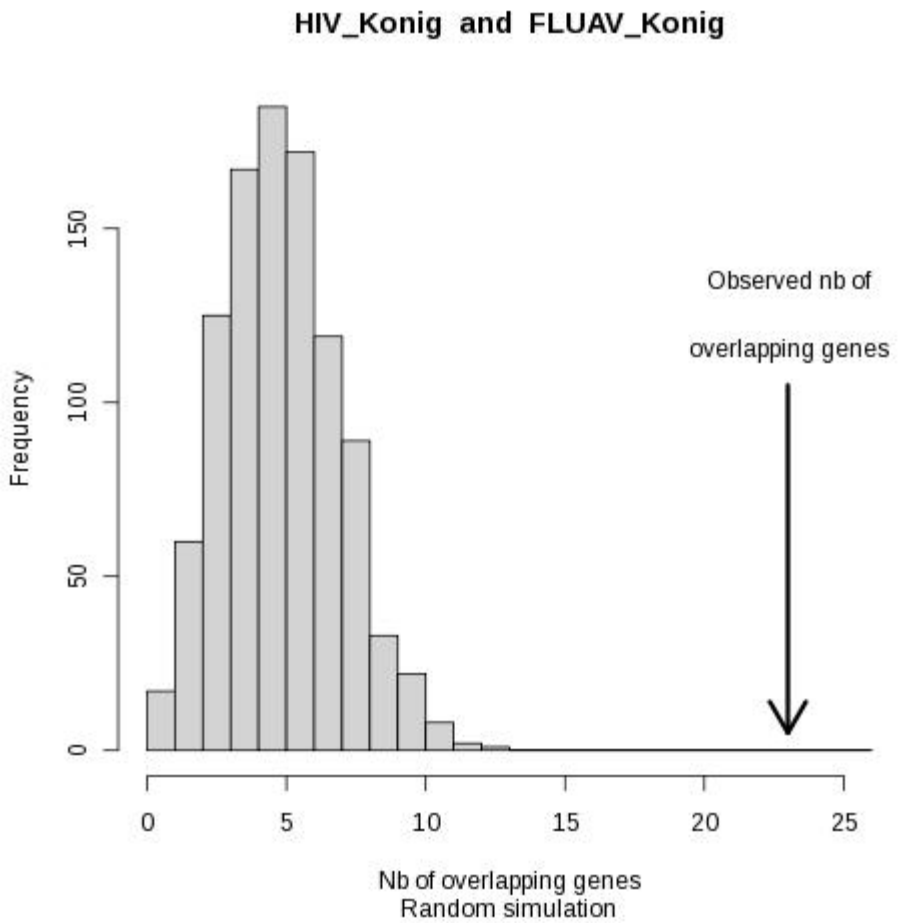
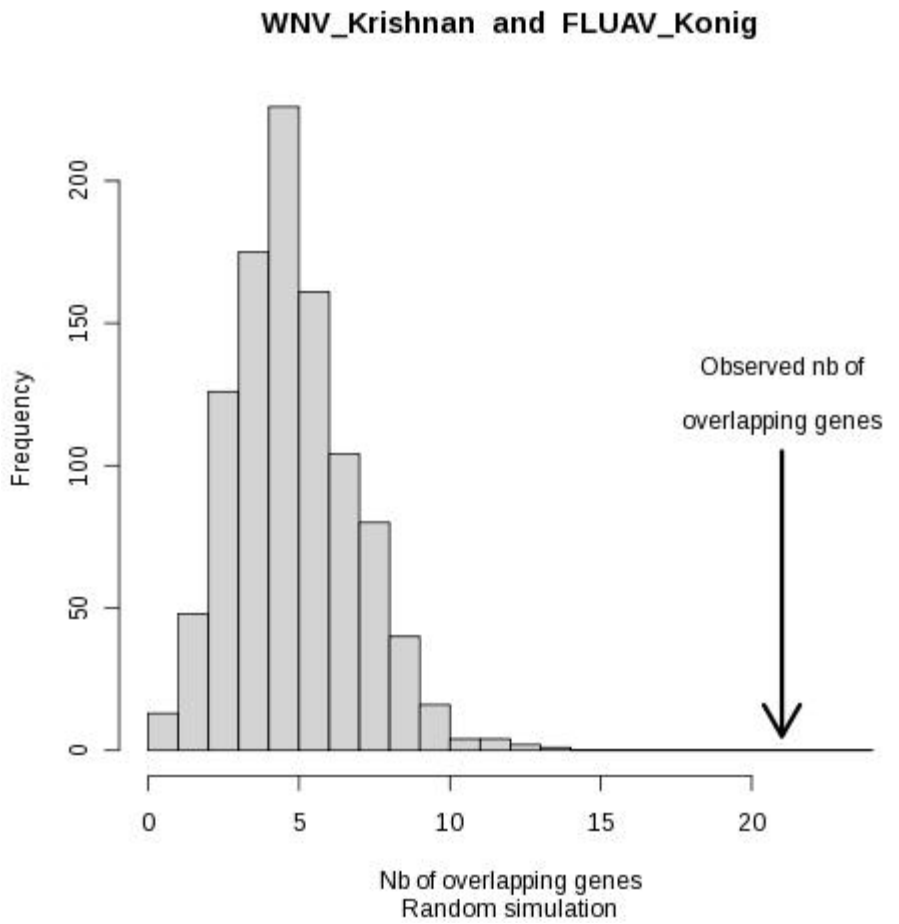
7. HIV_Konig vs. FLUAV_Konig

HIV_Konig: 19628 genes tested, 295 genes identified
FLUAV_Konig: 19628 genes tested, 295 genes identified
Number of overlapping genes: 23
List of overlapping genes: ATP6V0C, CAD, KCNJ11, KPNB1, PHF2, SUMO2, SNRPA1, NUP214, CLOCK, NUP153, CHAF1A, RBM5, SF3A1, AKAP13, TNPO3, ANAPC2, PPP1R12C, PPP1R14D, USE1, IL1F9, MID1IP1, OSBPL6, CANT1
Number of simulations showing 23 or more overlapping genes: 0/1000
P-value: < 0,001
Random distribution:



8. WNV_Krishnan vs. FLUAV_Konig

WNV_Krishnan: 21121 genes tested, 305 genes identified
FLUAV_Konig: 19628 genes tested, 295 genes identified
Number of overlapping genes: 21
List of overlapping genes: ATP6V1A, ATP6V1B2, ATP6V0C, ATP6V0B, ATP6AP1, CLK1, GRK6, TEAD3, ATP6V0D1, RBM5, TUBB3, PLK4, STK39, TRPV2, STK31, WDR18-, MID1IP1, CBLL1, WDR34, UBXN10, ACRC
Number of simulations showing 21 or more overlapping genes: 0/1000
P-value: < 0,001
Random distribution:



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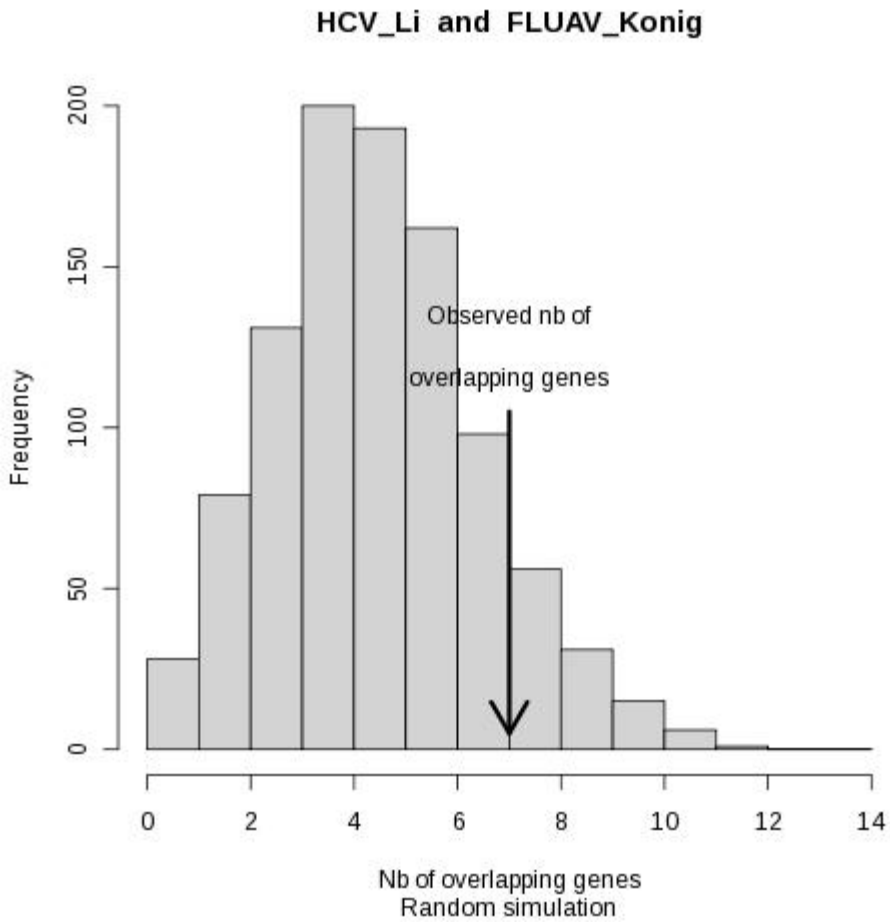
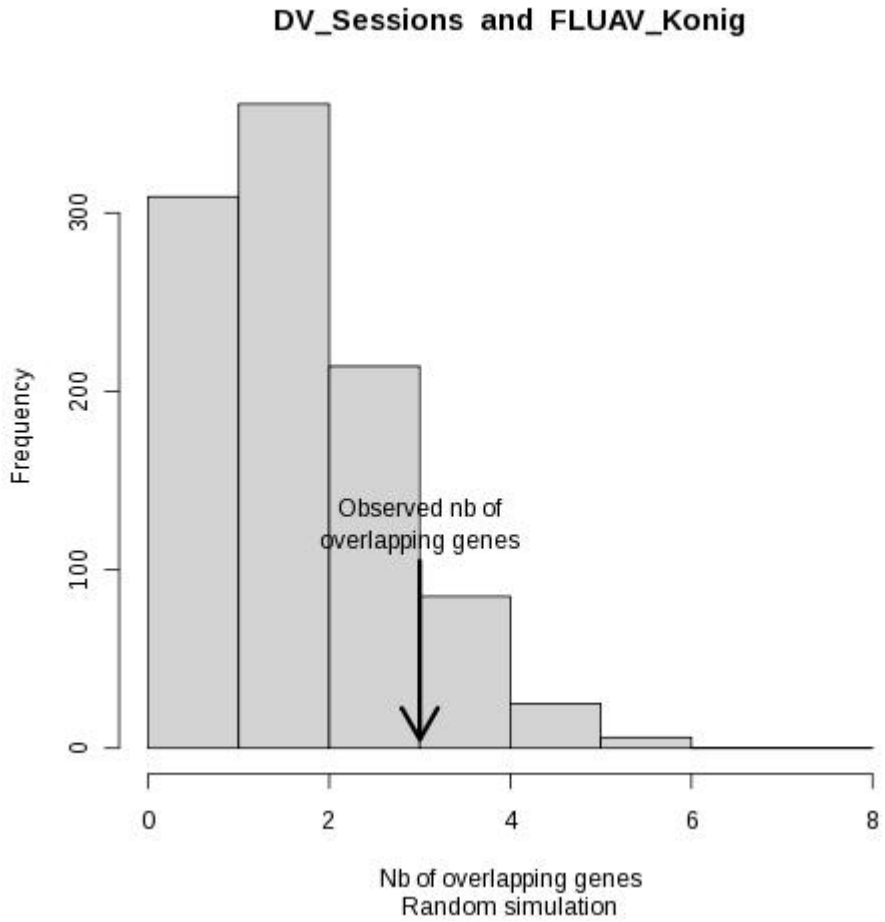
9. HCV_Li vs. FLUAV_Konig

HCV_Li: 19470 genes tested, 262 genes identified
FLUAV_Konig: 19628 genes tested, 295 genes identified
Number of overlapping genes: 7
List of overlapping genes: FLT4, KCNJ3, MAPK1, SMARCD3, CDKL5, HIPK3, APC2
Number of simulations showing 7 or more overlapping genes: 109/1000
P-value: 0,109
Random distribution:



10. DV_Sessions vs. FLUAV_Konig

DV_Sessions: 10278 genes tested, 81 genes identified
FLUAV_Konig: 19628 genes tested, 295 genes identified
Number of overlapping genes: 3
List of overlapping genes: ATP6V0B, PHF2, ATP6V0D1
Number of simulations showing 3 or more overlapping genes: 116/1000
P-value: 0,116
Random distribution:



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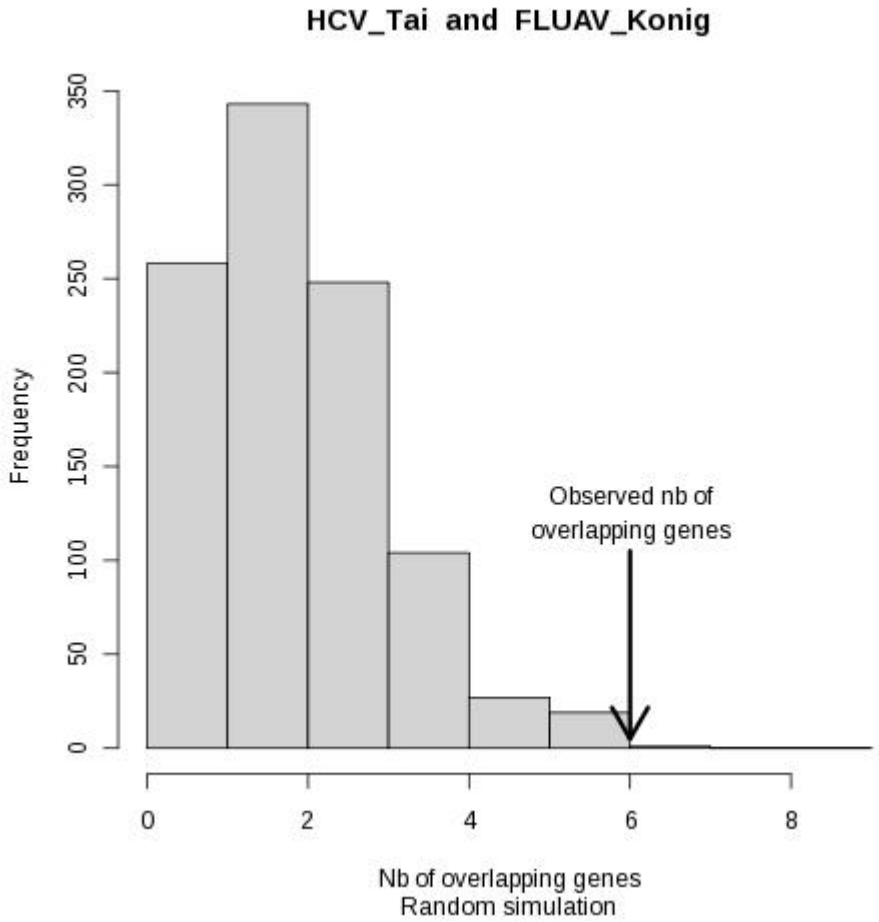
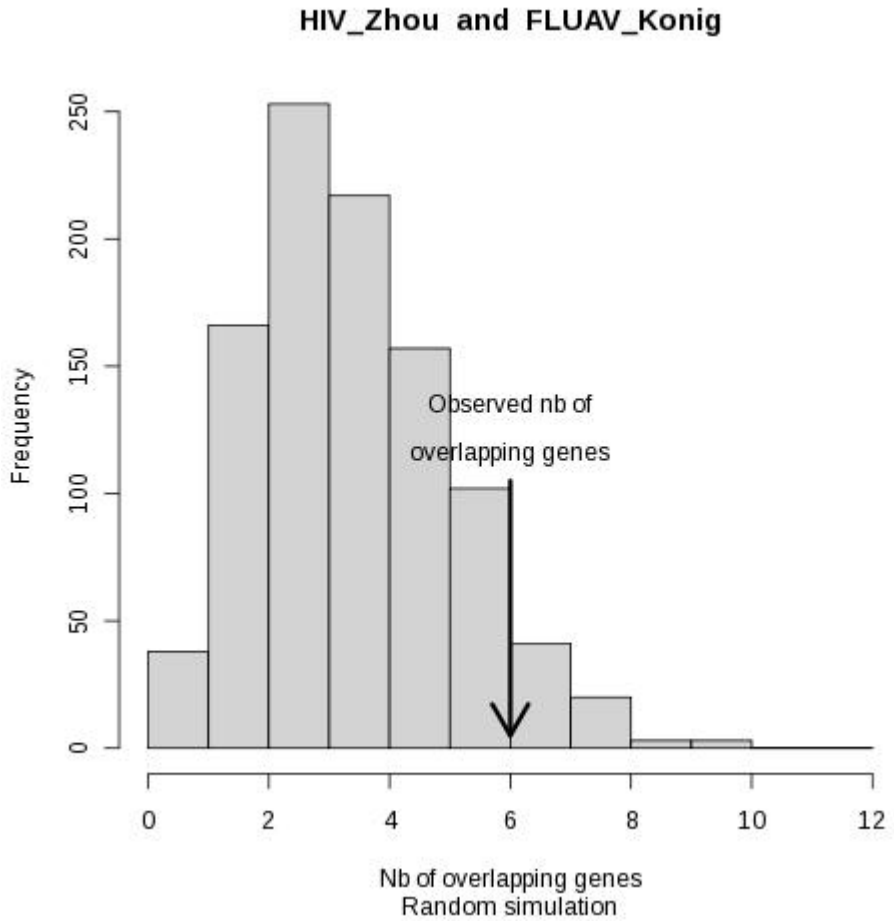
11. HCV_Tai vs. FLUAV_Konig

HCV_Tai: 21094 genes tested, 95 genes identified
FLUAV_Konig: 19628 genes tested, 295 genes identified
Number of overlapping genes: 6
List of overlapping genes: ARCN1, COPA, PSMD1, COPB2, COPG, TBK1
Number of simulations showing 6 or more overlapping genes: 1/1000
P-value: < 0,001
Random distribution:



12. HIV_Zhou vs. FLUAV_Konig

HIV_Zhou: 20000 genes tested, 206 genes identified
FLUAV_Konig: 19628 genes tested, 295 genes identified
Number of overlapping genes: 6
List of overlapping genes: AKT1, TPT1, ERN2, DAPK2, ANAPC2, NRBP1
Number of simulations showing 6 or more overlapping genes: 67/1000
P-value: 0,067
Random distribution:



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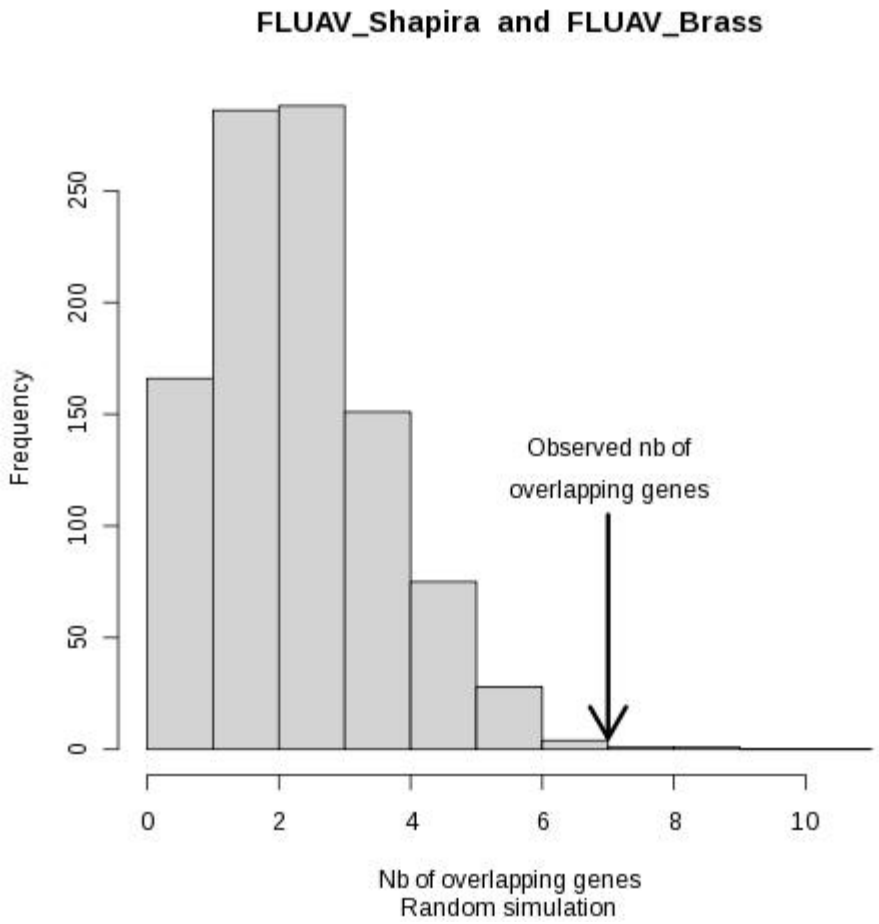
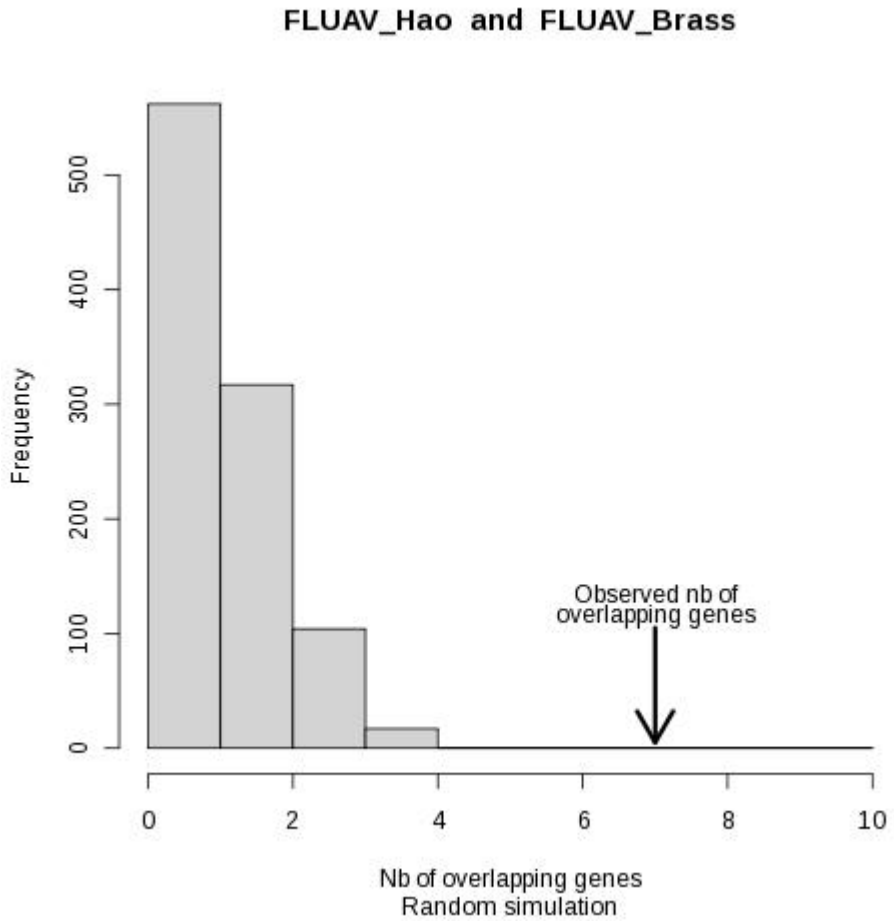
13. FLUAV_Shapira vs. FLUAV_Brass

FLUAV_Shapira: 1745 genes tested, 242 genes identified
FLUAV_Brass: 17877 genes tested, 133 genes identified
Number of overlapping genes: 7
List of overlapping genes: COPA, PGD, SLC1A3, CALCOCO2, NXF1, STARD5, IFITM3
Number of simulations showing 7 or more overlapping genes: 2/1000
P-value: 0,002
Random distribution:



14. FLUAV_Hao vs. FLUAV_Brass

FLUAV_Hao: 10278 genes tested, 78 genes identified
FLUAV_Brass: 17877 genes tested, 133 genes identified
Number of overlapping genes: 7
List of overlapping genes: ARCN1, NUP98, PGD, RAB5A, NXF1, COPG, AQR
Number of simulations showing 7 or more overlapping genes: 0/1000
P-value: < 0,001
Random distribution:



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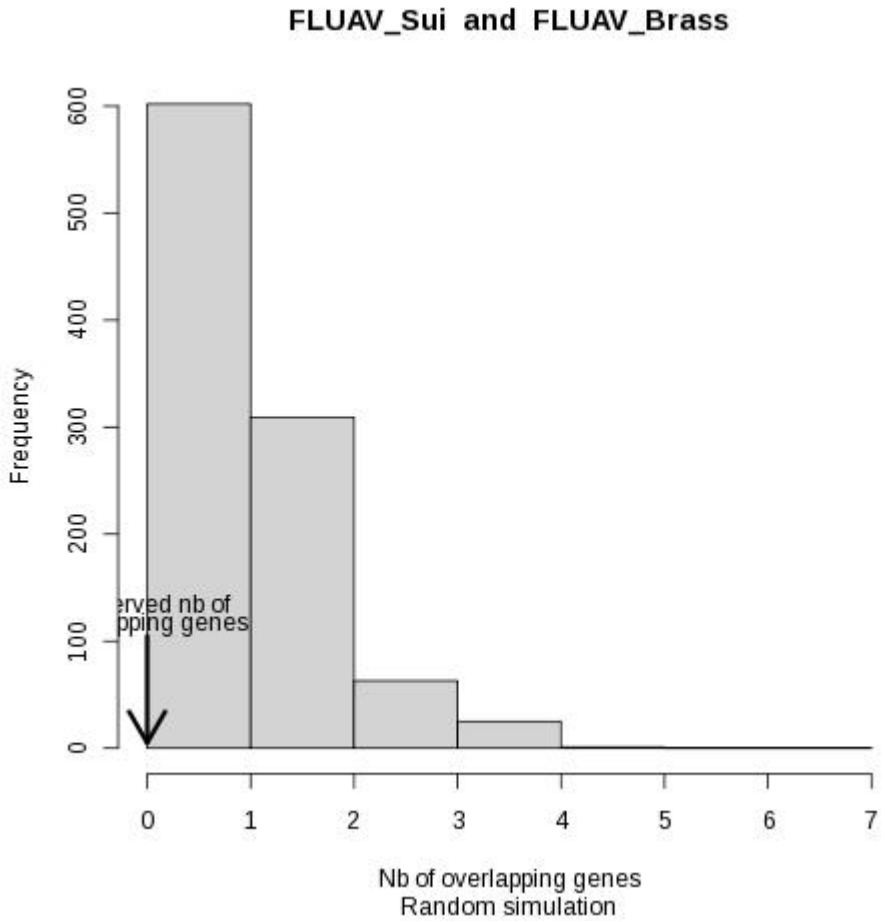
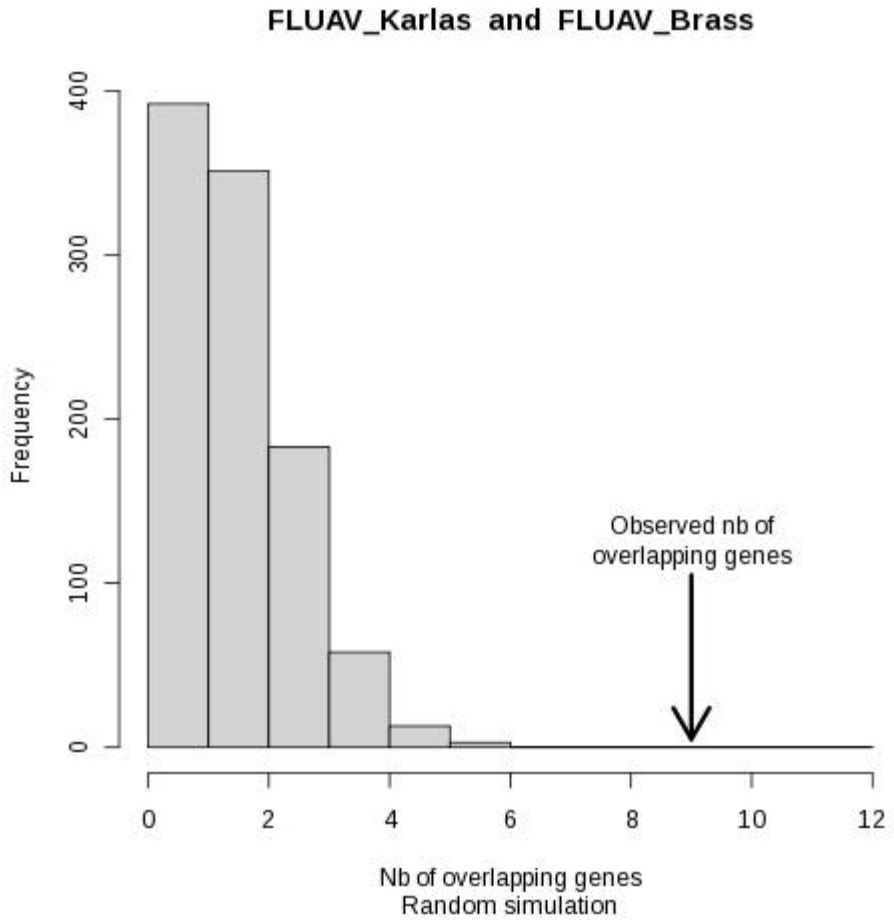
15. FLUAV_Sui vs. FLUAV_Brass

FLUAV_Sui: 25157 genes tested, 99 genes identified
FLUAV_Brass: 17877 genes tested, 133 genes identified
Number of overlapping genes: 0
List of overlapping genes: none
Number of simulations showing 0 or more overlapping genes: 1000/1000
P-value: 1
Random distribution:



16. FLUAV_Karlas vs. FLUAV_Brass

FLUAV_Karlas: 22843 genes tested, 168 genes identified
FLUAV_Brass: 17877 genes tested, 133 genes identified
Number of overlapping genes: 9
List of overlapping genes: ATP6AP1, COPA, COPB1, NUP98, COPB2, NXF1, PRPF8, COPG, SF3B1
Number of simulations showing 9 or more overlapping genes: 0/1000
P-value: < 0,001
Random distribution:



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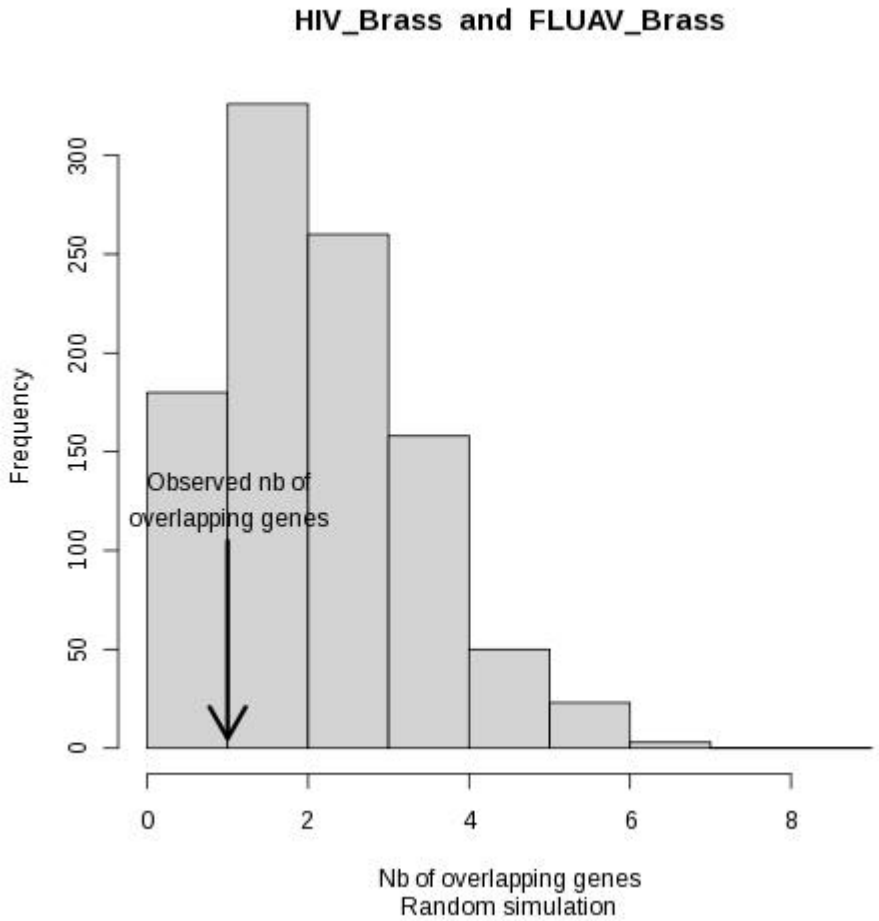
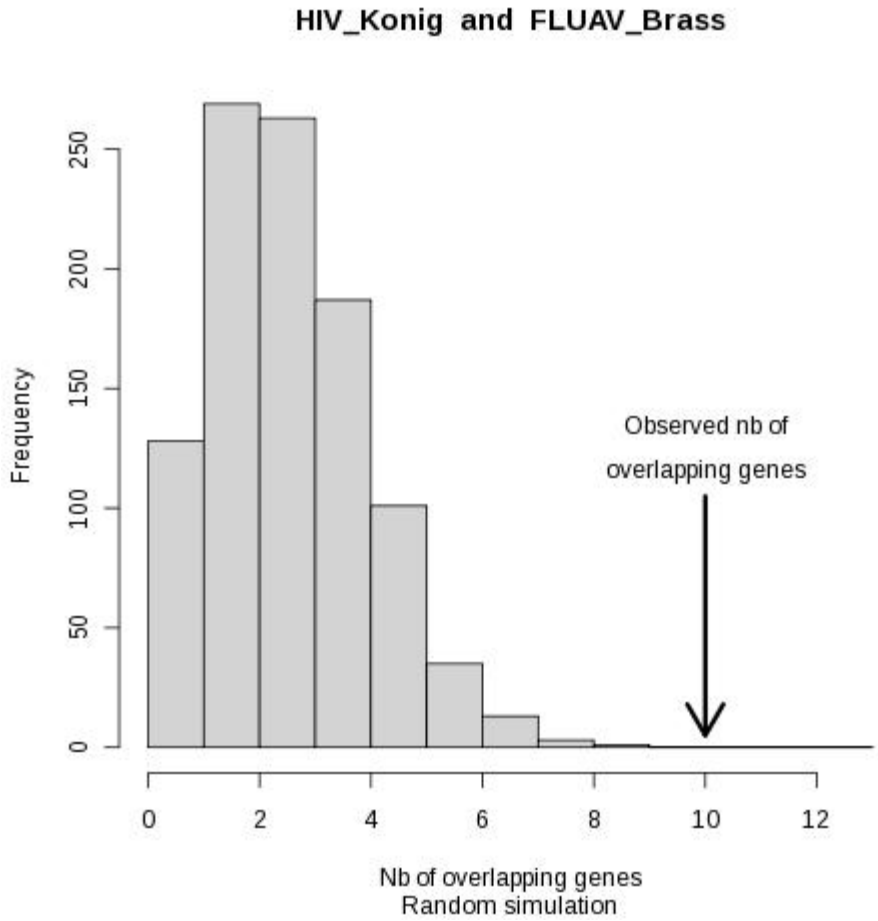
17. HIV_Brass vs. FLUAV_Brass

HIV_Brass: 21121 genes tested, 280 genes identified
FLUAV_Brass: 17877 genes tested, 133 genes identified
Number of overlapping genes: 1
List of overlapping genes: NUP107
Number of simulations showing 1 or more overlapping genes: 820/1000
P-value: 0,820
Random distribution:



18. HIV_Konig vs. FLUAV_Brass

HIV_Konig: 19628 genes tested, 295 genes identified
FLUAV_Brass: 17877 genes tested, 133 genes identified
Number of overlapping genes: 10
List of overlapping genes: AKT1, CAPN6, STX5, NUP153, PIP5K1C, TNPO3, UBQLN4, TAOK1, MID1IP1, ZNF436
Number of simulations showing 10 or more overlapping genes: 0/1000
P-value: < 0,001
Random distribution:



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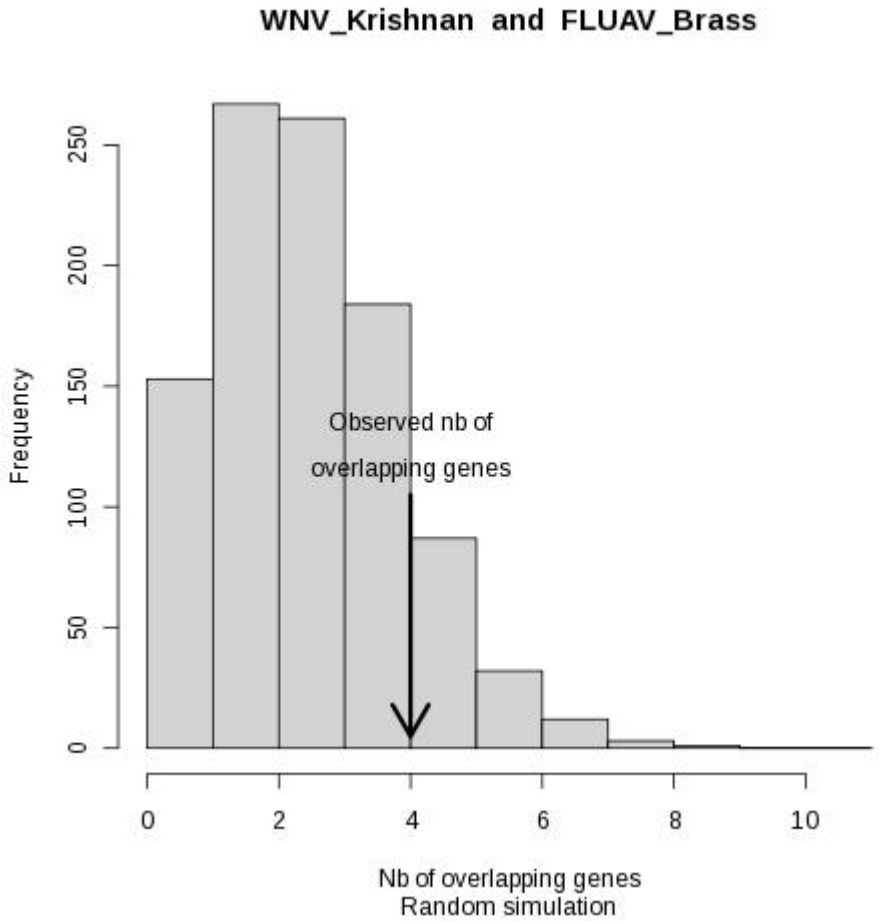
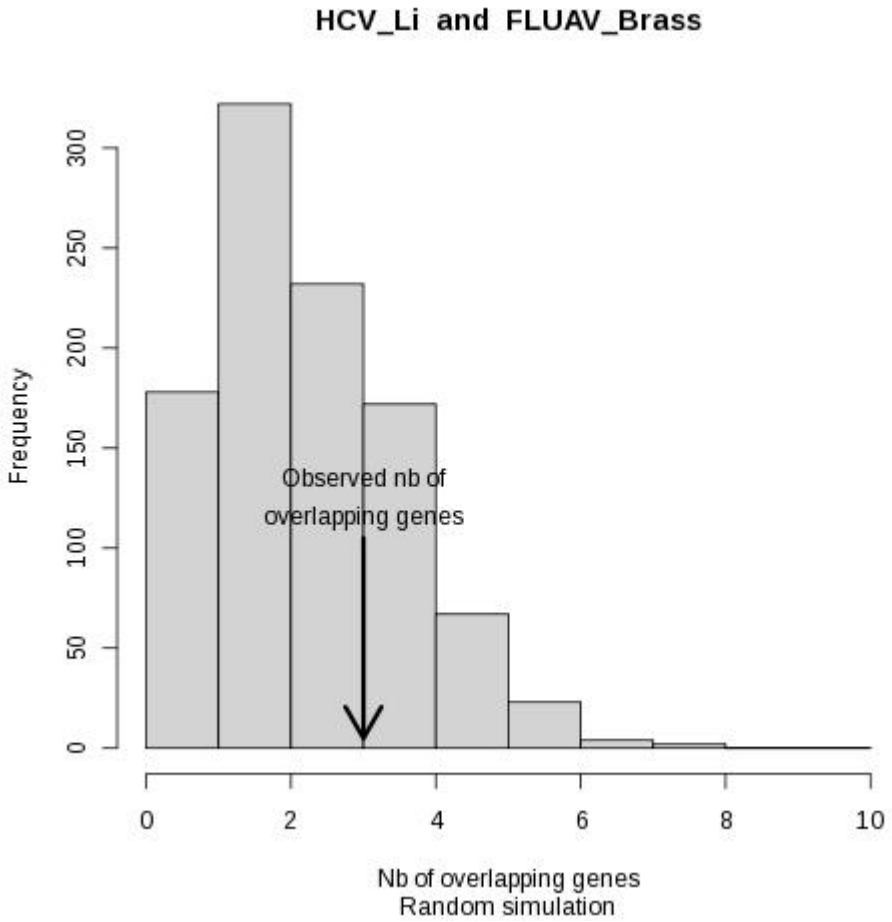
19. WNV_Krishnan vs. FLUAV_Brass

WNV_Krishnan: 21121 genes tested, 305 genes identified
FLUAV_Brass: 17877 genes tested, 133 genes identified
Number of overlapping genes: 4
List of overlapping genes: ATP6V0B, ATP6AP1, WDR18, SFXN2
Number of simulations showing 4 or more overlapping genes: 135/1000
P-value: 0,135
Random distribution:



20. HCV_Li vs. FLUAV_Brass

HCV_Li: 19470 genes tested, 262 genes identified
FLUAV_Brass: 17877 genes tested, 133 genes identified
Number of overlapping genes: 3
List of overlapping genes: PRPF31, CADM2, IFITM3
Number of simulations showing 3 or more overlapping genes: 268/1000
P-value: 0,268
Random distribution:



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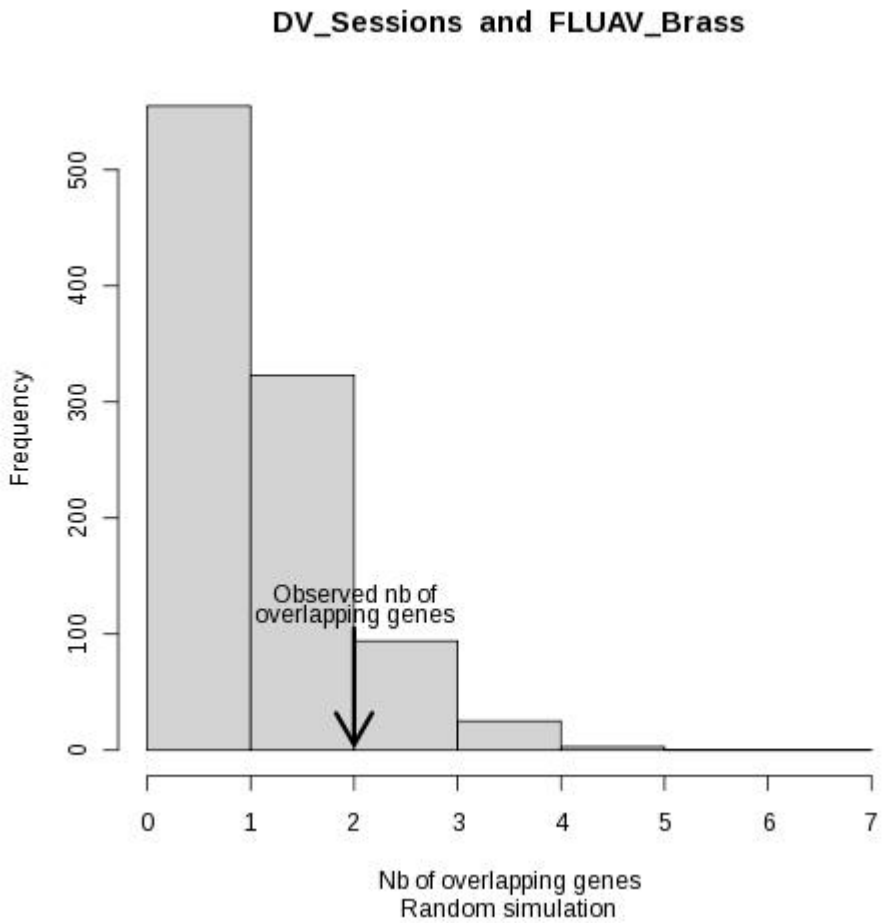
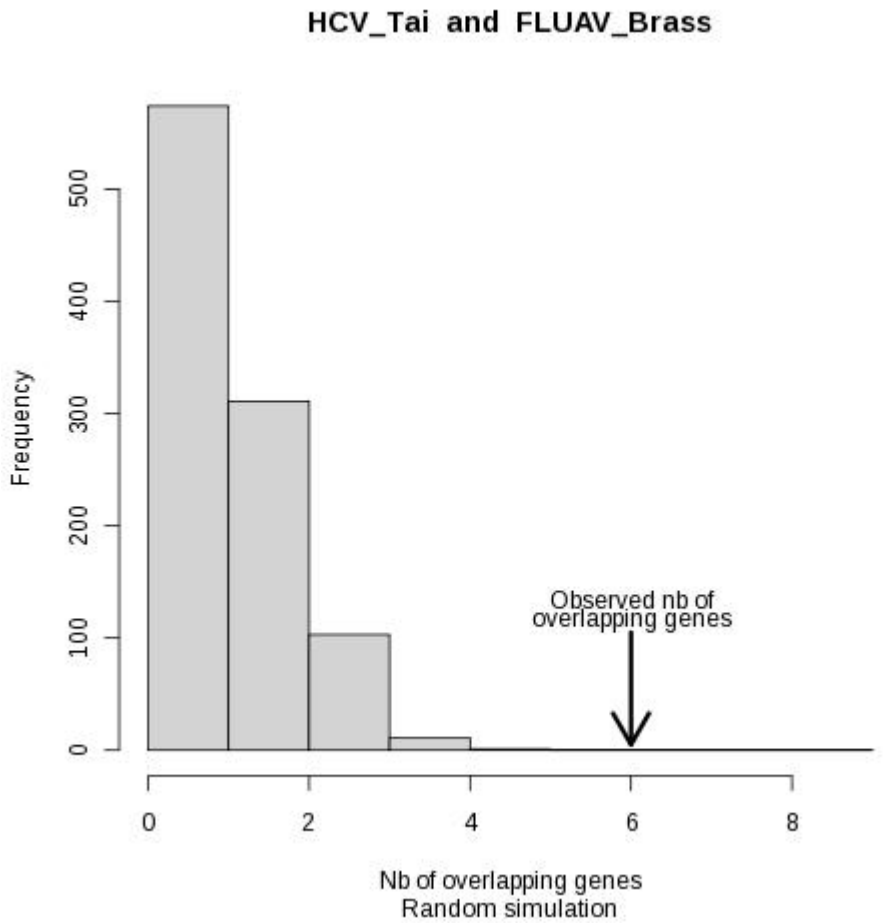
21. DV_Sessions vs. FLUAV_Brass

DV_Sessions: 10278 genes tested, 81 genes identified
FLUAV_Brass: 17877 genes tested, 133 genes identified
Number of overlapping genes: 2
List of overlapping genes: ATP6V0B, NUPL1
Number of simulations showing 2 or more overlapping genes: 122/1000
P-value: 0,122
Random distribution:



22. HCV_Tai vs. FLUAV_Brass

HCV_Tai: 21094 genes tested, 95 genes identified
FLUAV_Brass: 17877 genes tested, 133 genes identified
Number of overlapping genes: 6
List of overlapping genes: ARCN1, COPA, COPB1, COPB2, COPZ1, COPG
Number of simulations showing 6 or more overlapping genes: 0/1000
P-value: < 0,001
Random distribution:



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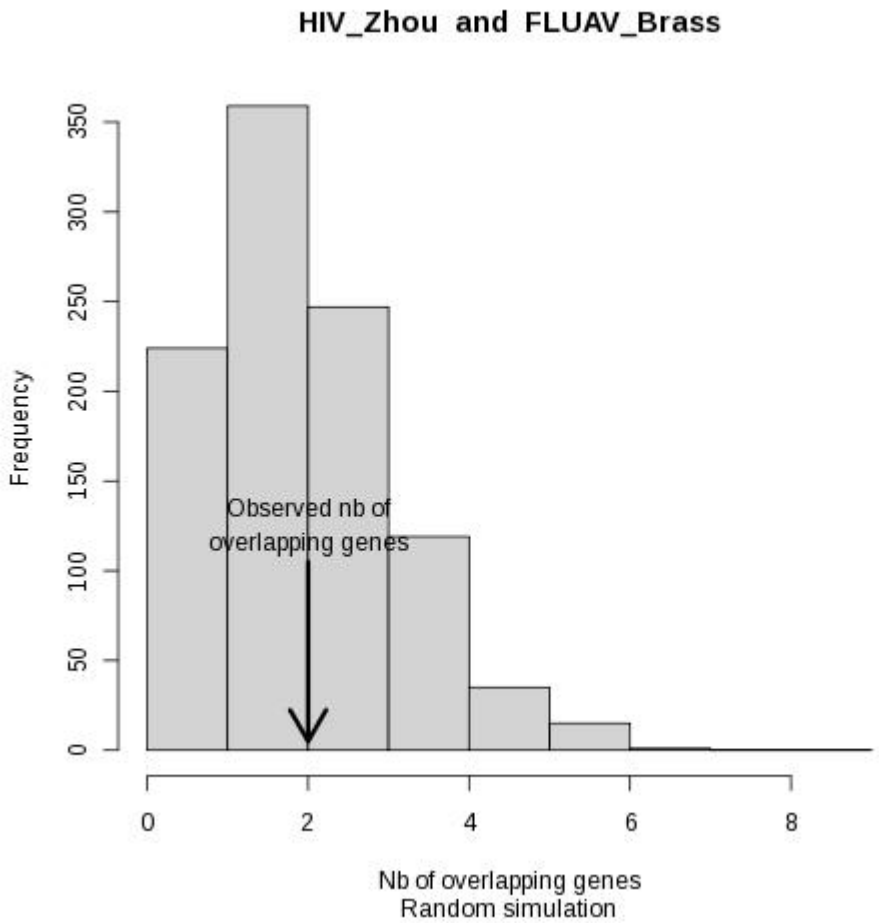
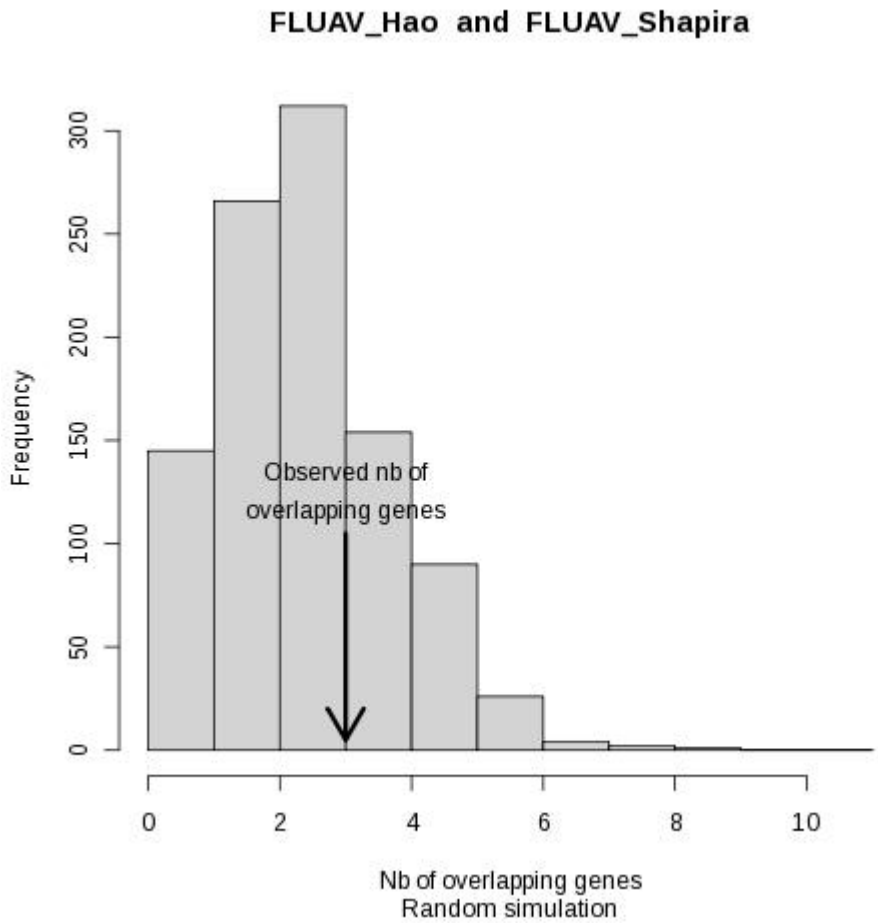
23. HIV_Zhou vs. FLUAV_Brass

HIV_Zhou: 20000 genes tested, 206 genes identified
FLUAV_Brass: 17877 genes tested, 133 genes identified
Number of overlapping genes: 2
List of overlapping genes: HNRNPU, ZNF552
Number of simulations showing 2 or more overlapping genes: 417/1000
P-value: 0,417
Random distribution:



24. FLUAV_Hao vs. FLUAV_Shapira

FLUAV_Hao: 10278 genes tested, 78 genes identified
FLUAV_Shapira: 1745 genes tested, 242 genes identified
Number of overlapping genes: 3
List of overlapping genes: PGD, NXF1, PLXNA2
Number of simulations showing 3 or more overlapping genes: 277/1000
P-value: 0,277
Random distribution:



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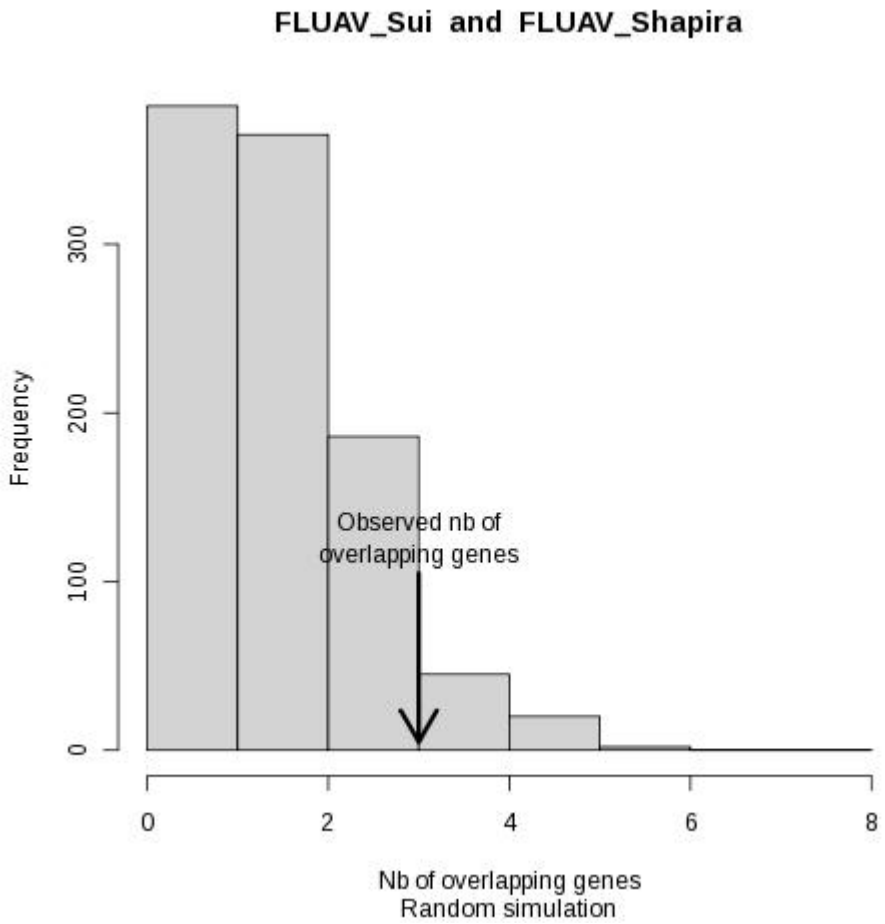
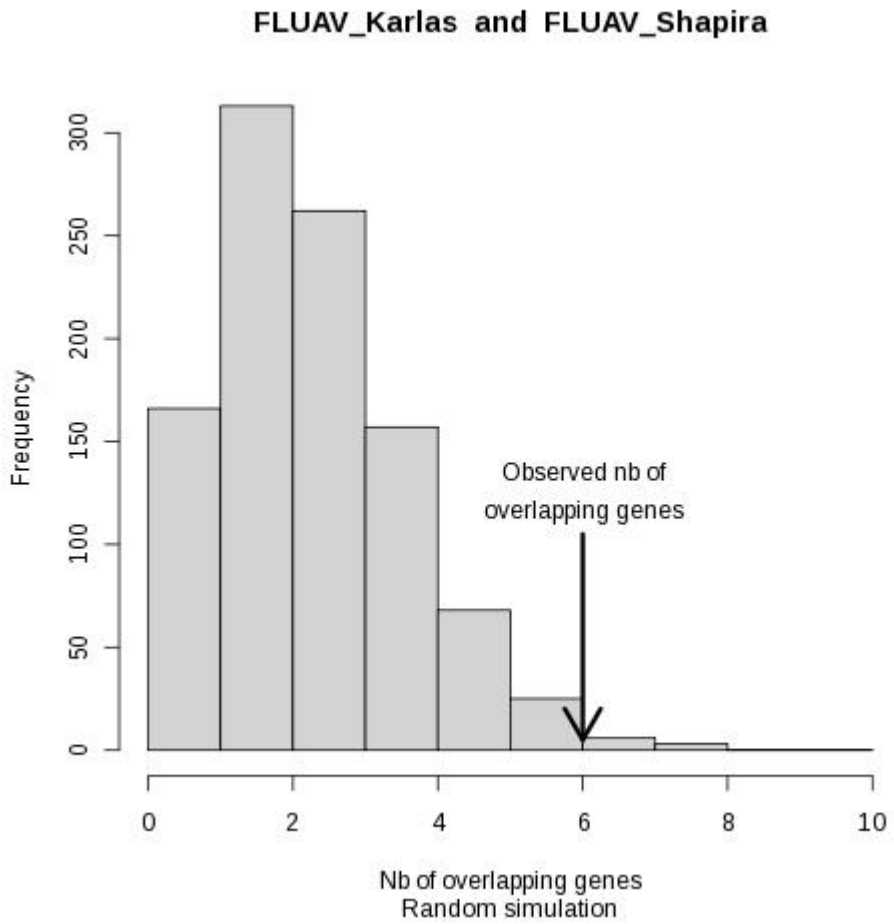
25. FLUAV_Sui vs. FLUAV_Shapira

FLUAV_Sui: 25157 genes tested, 99 genes identified
FLUAV_Shapira: 1745 genes tested, 242 genes identified
Number of overlapping genes: 3
List of overlapping genes: FKBP, C21orf33, RGS2
Number of simulations showing 3 or more overlapping genes: 67/1000
P-value: 0,067
Random distribution:



26. FLUAV_Karlas vs. FLUAV_Shapira

FLUAV_Karlas: 22843 genes tested, 168 genes identified
FLUAV_Shapira: 1745 genes tested, 242 genes identified
Number of overlapping genes: 6
List of overlapping genes: COPA, IRF2, MYC, SUPT6H, NXF1, B2M
Number of simulations showing 6 or more overlapping genes: 9/1000
P-value: 0,009
Random distribution:



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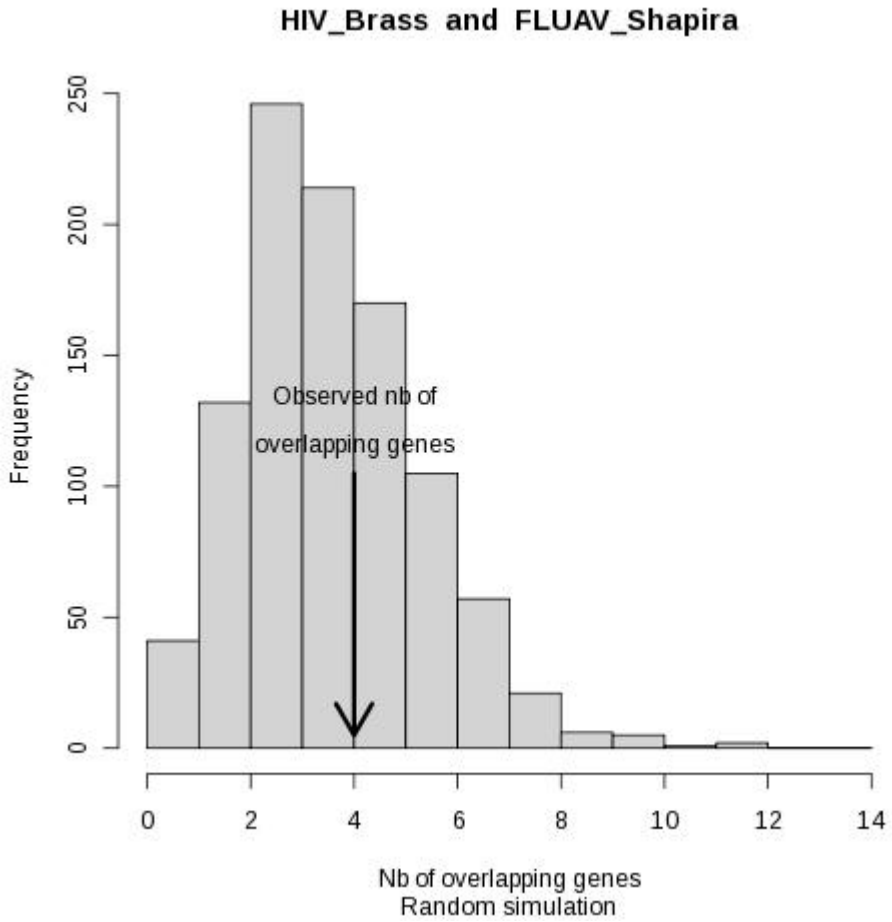
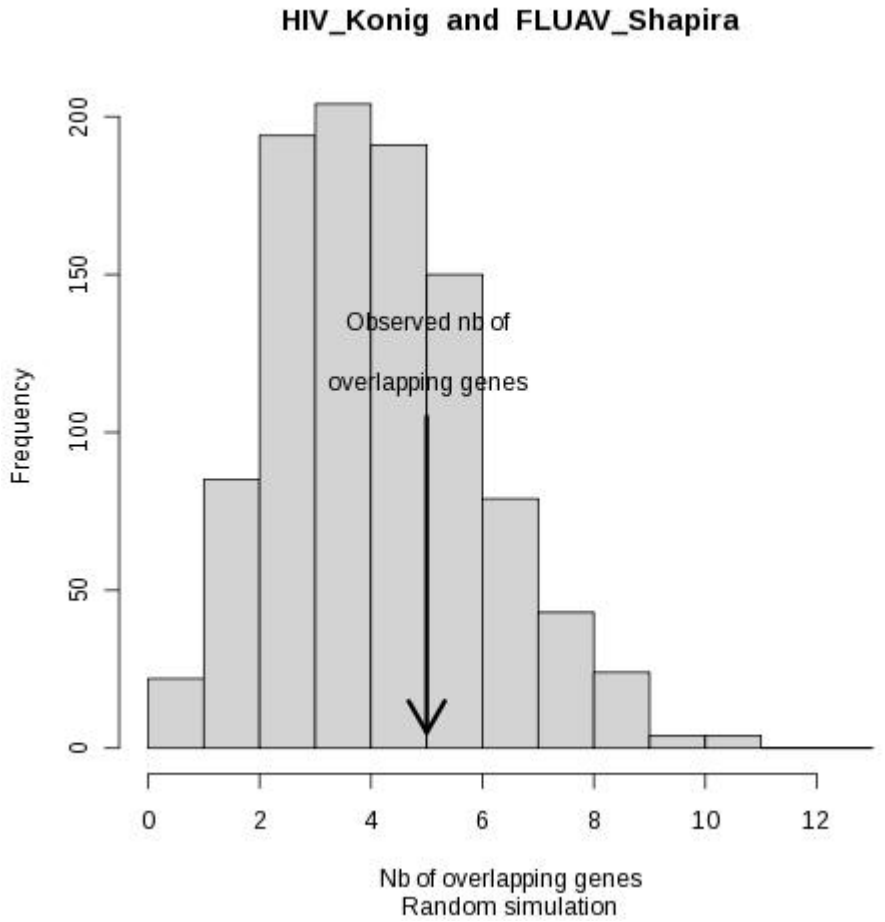
27. HIV_Brass vs. FLUAV_Shapira

HIV_Brass: 21121 genes tested, 280 genes identified
FLUAV_Shapira: 1745 genes tested, 242 genes identified
Number of overlapping genes: 4
List of overlapping genes: PHF3, ZNF512B, CACNG1, NCOR2
Number of simulations showing 4 or more overlapping genes: 367/1000
P-value: 0,367
Random distribution:



28. HIV_Konig vs. FLUAV_Shapira

HIV_Konig: 19628 genes tested, 295 genes identified
FLUAV_Shapira: 1745 genes tested, 242 genes identified
Number of overlapping genes: 5
List of overlapping genes: EP300, TCF20, UMPS, PTPRU, NXF1
Number of simulations showing 5 or more overlapping genes: 304/1000
P-value: 0,304
Random distribution:



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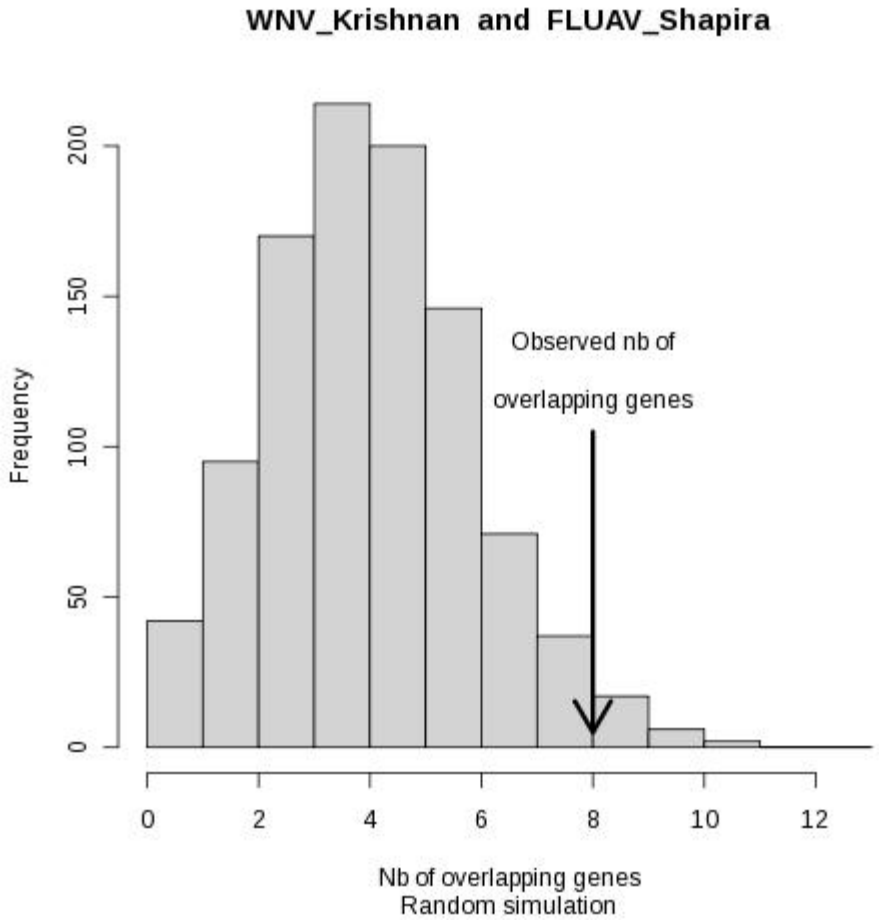
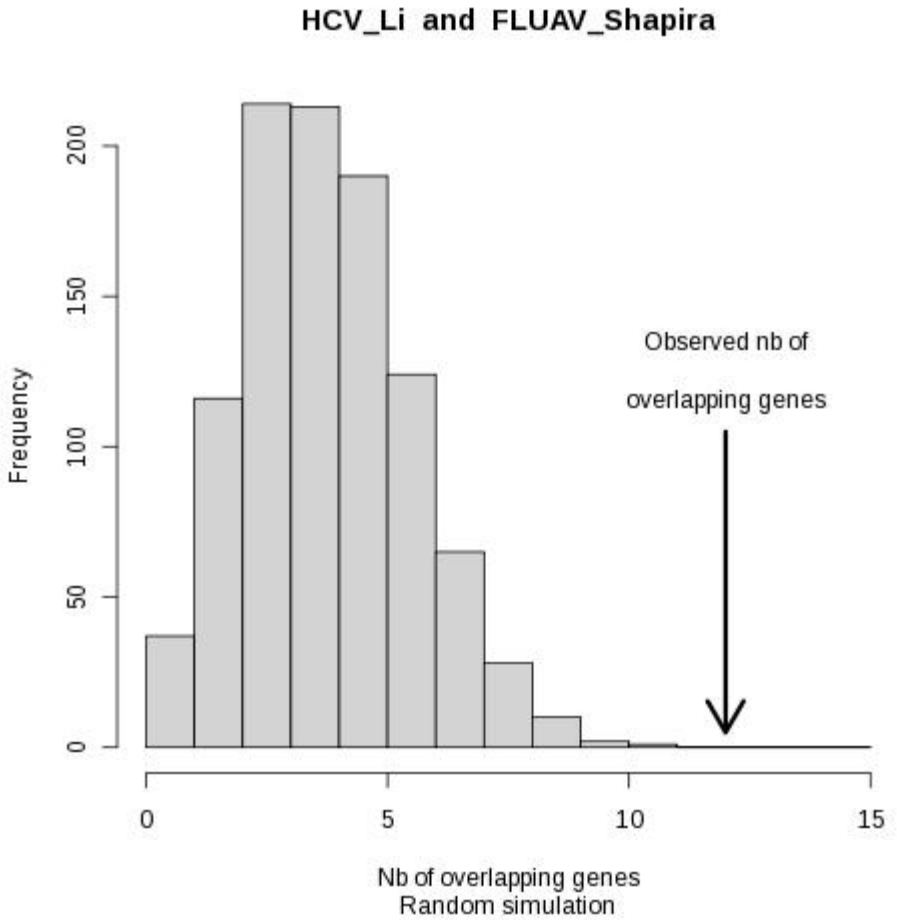
29. WNV_Krishnan vs. FLUAV_Shapira

WNV_Krishnan: 21121 genes tested, 305 genes identified
FLUAV_Shapira: 1745 genes tested, 242 genes identified
Number of overlapping genes: 8
List of overlapping genes: TGFBR1, PLA2G2F, IRF3, HOXC12, MAP2K7, STK3, RNF44, TRIM63
Number of simulations showing 8 or more overlapping genes: 25/1000
P-value: 0,025
Random distribution:



30. HCV_Li vs. FLUAV_Shapira

HCV_Li: 19470 genes tested, 262 genes identified
FLUAV_Shapira: 1745 genes tested, 242 genes identified
Number of overlapping genes: 12
List of overlapping genes: IGFBP6, CISH, SMAD5, TBCD, TFAP2A, WDR37, PELI1, HCCS, IRF3, SMAD6, CCL26, IFITM3
Number of simulations showing 12 or more overlapping genes: 0/1000
P-value: < 0,001
Random distribution:



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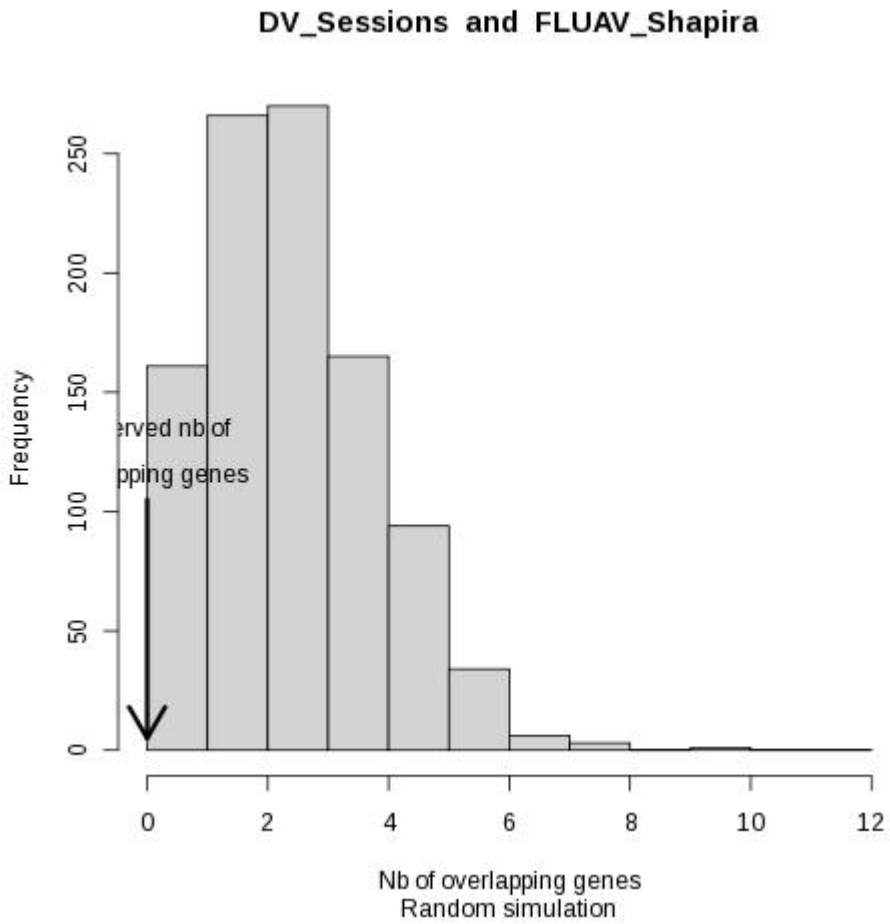
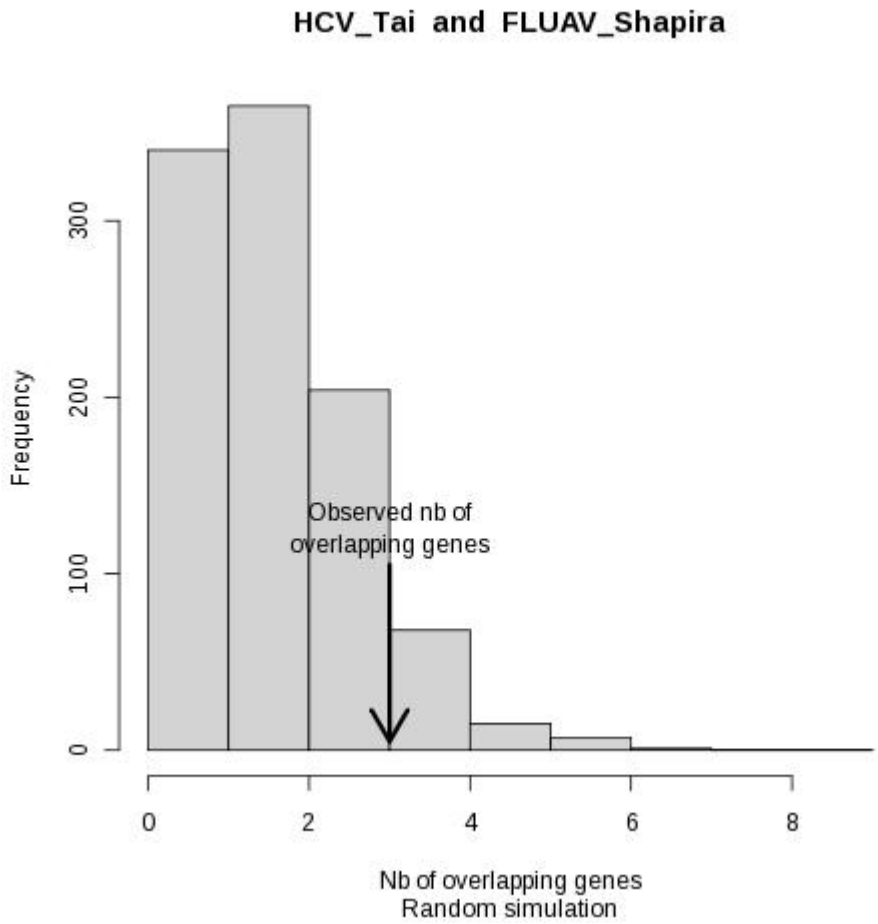
31. DV_Sessions vs. FLUAV_Shapira

DV_Sessions: 10278 genes tested, 81 genes identified
FLUAV_Shapira: 1745 genes tested, 242 genes identified
Number of overlapping genes: 0
List of overlapping genes: none
Number of simulations showing 0 or more overlapping genes: 1000/1000
P-value: 1
Random distribution:



32. HCV_Tai vs. FLUAV_Shapira

HCV_Tai: 21094 genes tested, 95 genes identified
FLUAV_Shapira: 1745 genes tested, 242 genes identified
Number of overlapping genes: 3
List of overlapping genes: COPA, CACNG1, CEBPD
Number of simulations showing 3 or more overlapping genes: 91/1000
P-value: 0,091
Random distribution:



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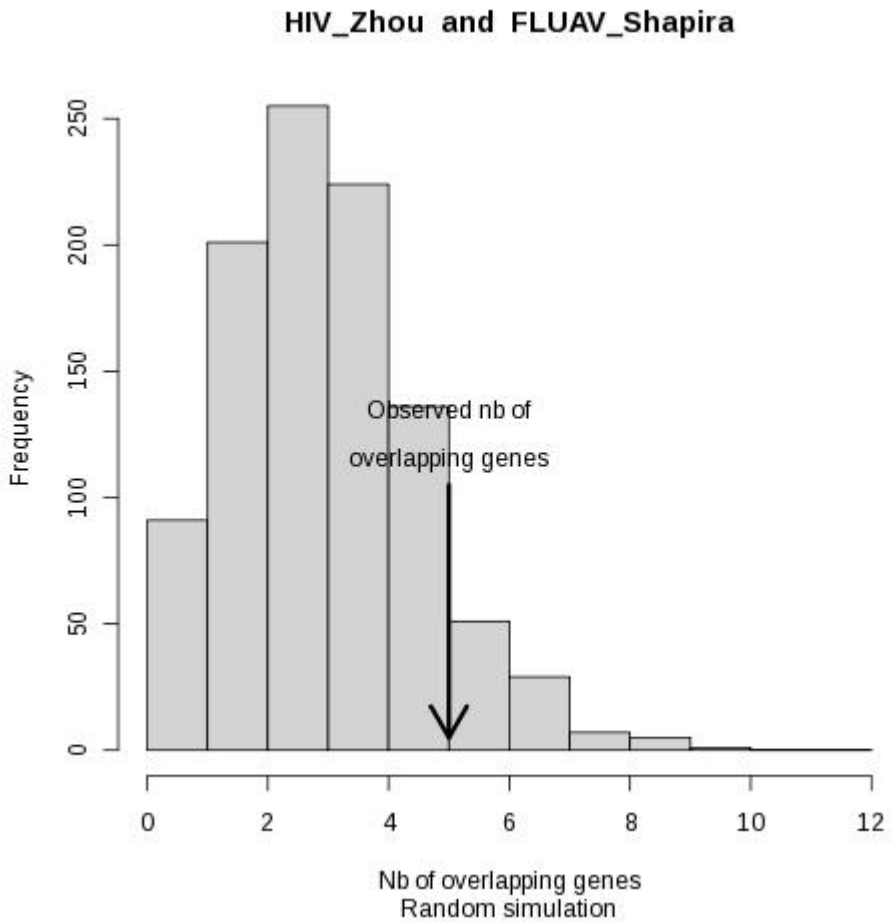
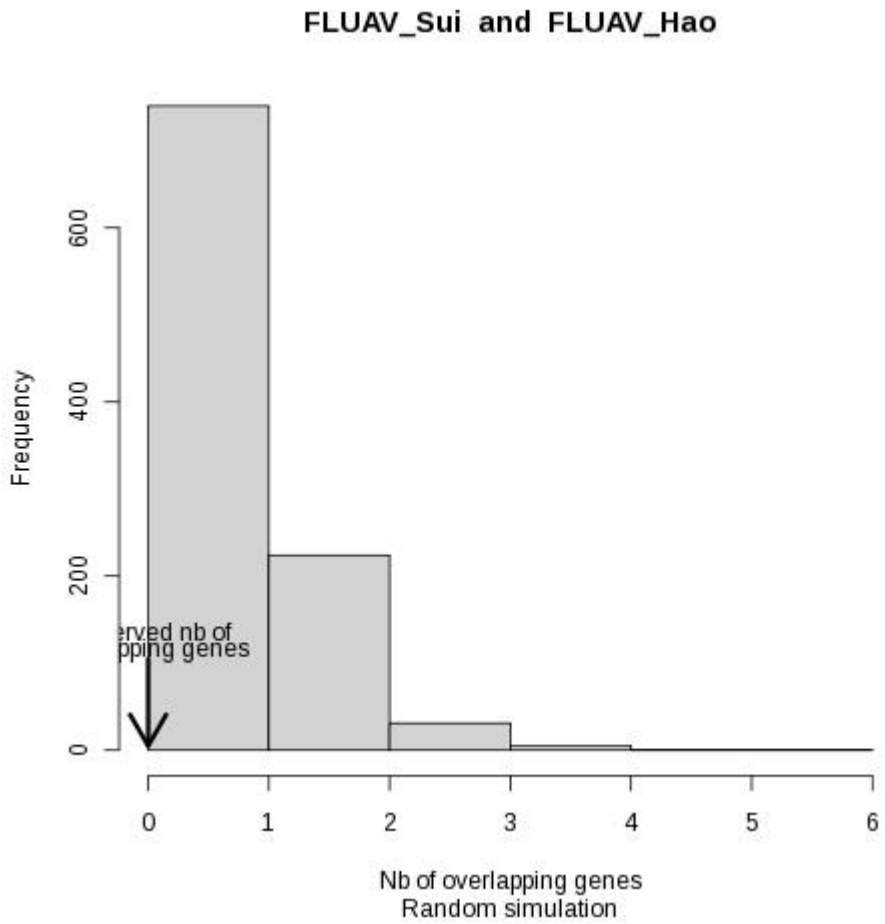
33. HIV_Zhou vs. FLUAV_Shapira

HIV_Zhou: 20000 genes tested, 206 genes identified
FLUAV_Shapira: 1745 genes tested, 242 genes identified
Number of overlapping genes: 5
List of overlapping genes: NFKB1, PELI1, MAP3K9, KLF2, CYCS
Number of simulations showing 5 or more overlapping genes: 93/1000
P-value: 0,093
Random distribution:



34. FLUAV_Sui vs. FLUAV_Hao

FLUAV_Sui: 25157 genes tested, 99 genes identified
FLUAV_Hao: 10278 genes tested, 78 genes identified
Number of overlapping genes: 0
List of overlapping genes: none
Number of simulations showing 0 or more overlapping genes: 1000/1000
P-value: 1
Random distribution:



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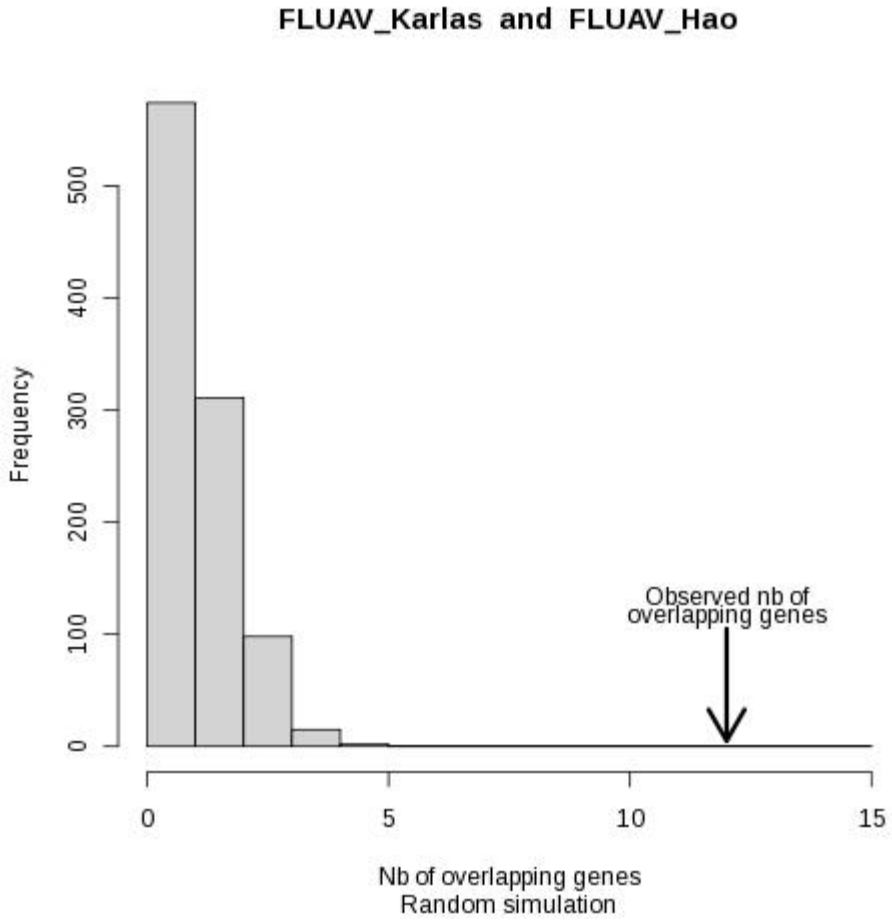
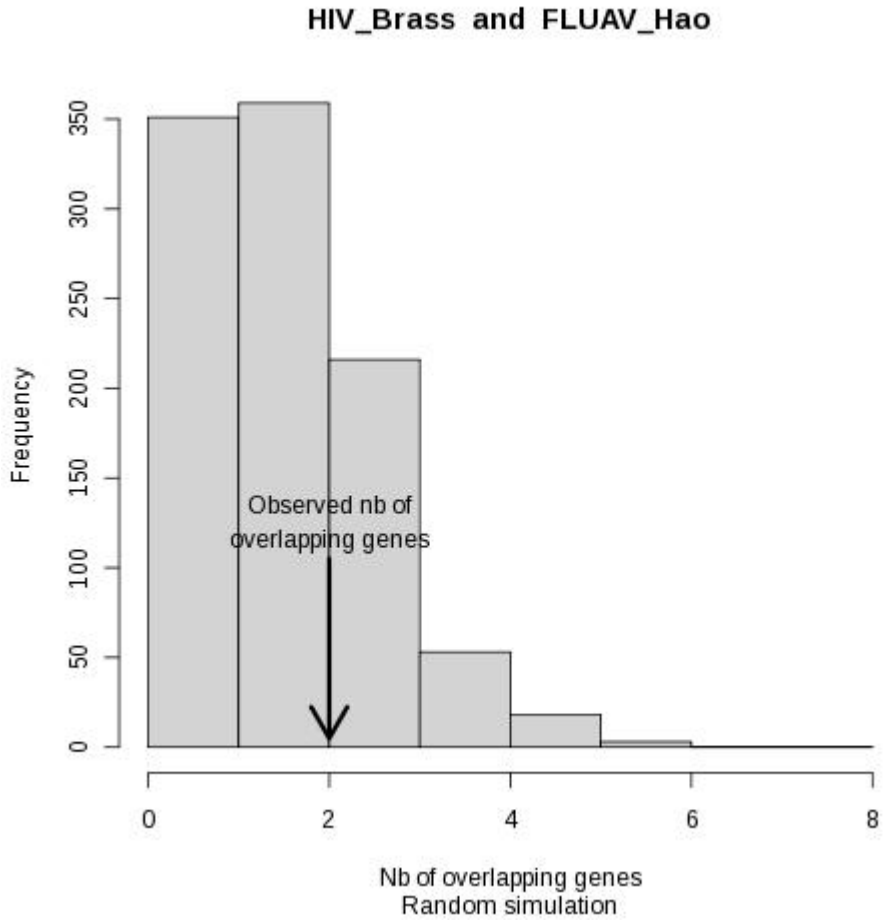
35. FLUAV_Karlas vs. FLUAV_Hao

FLUAV_Karlas: 22843 genes tested, 168 genes identified
FLUAV_Hao: 10278 genes tested, 78 genes identified
Number of overlapping genes: 12
List of overlapping genes: ATP6V0C, FAU, NUP98, RPS5, RPS10, RPS14, RPS16, EIF3C, ATP6V0D1, NXF1, COPG, DMAP1
Number of simulations showing 12 or more overlapping genes: 0/1000
P-value: < 0,001
Random distribution:



36. HIV_Brass vs. FLUAV_Hao

HIV_Brass: 21121 genes tested, 280 genes identified
FLUAV_Hao: 10278 genes tested, 78 genes identified
Number of overlapping genes: 2
List of overlapping genes: EIF3H, RAB1B
Number of simulations showing 2 or more overlapping genes: 290/1000
P-value: 0,290
Random distribution:



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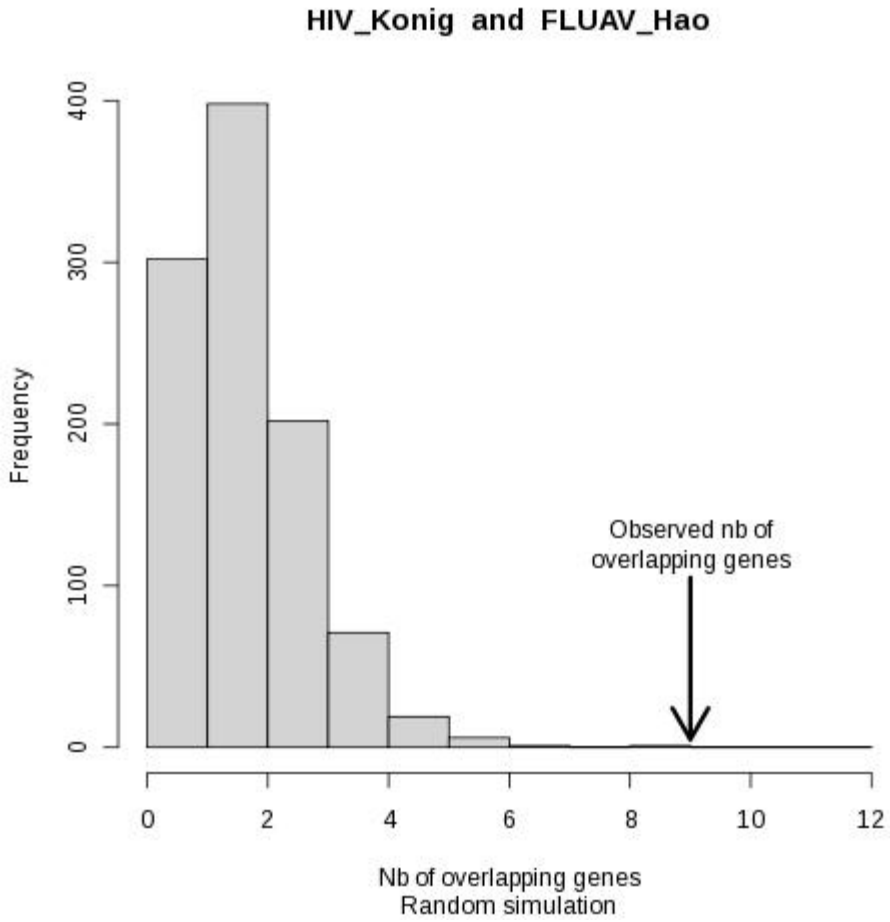
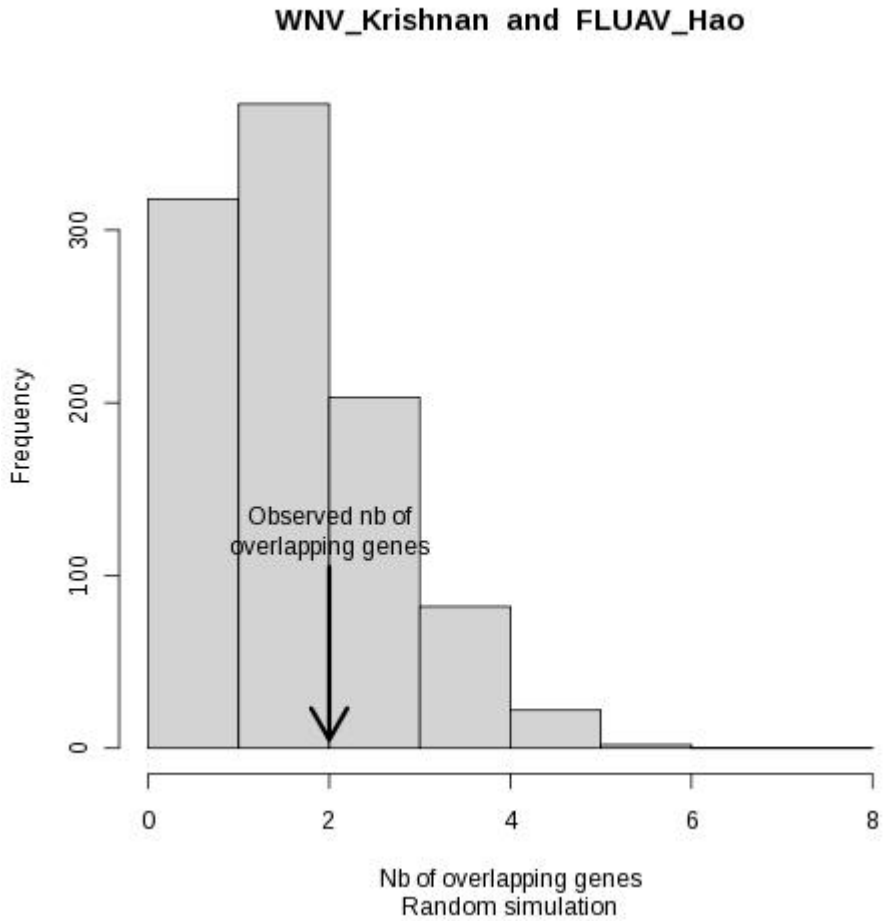
37. HIV_Konig vs. FLUAV_Hao

HIV_Konig: 19628 genes tested, 295 genes identified
FLUAV_Hao: 10278 genes tested, 78 genes identified
Number of overlapping genes: 9
List of overlapping genes: ATP6V0C, MAT2A, NUP98, PSMB6, PSMD12, NXF1, DCP2, SNRPC, AQR
Number of simulations showing 9 or more overlapping genes: 0/1000
P-value: < 0,001
Random distribution:



38. WNV_Krishnan vs. FLUAV_Hao

WNV_Krishnan: 21121 genes tested, 305 genes identified
FLUAV_Hao: 10278 genes tested, 78 genes identified
Number of overlapping genes: 2
List of overlapping genes: ATP6V0C, ATP6V0D1
Number of simulations showing 2 or more overlapping genes: 309/1000
P-value: 0,309
Random distribution:



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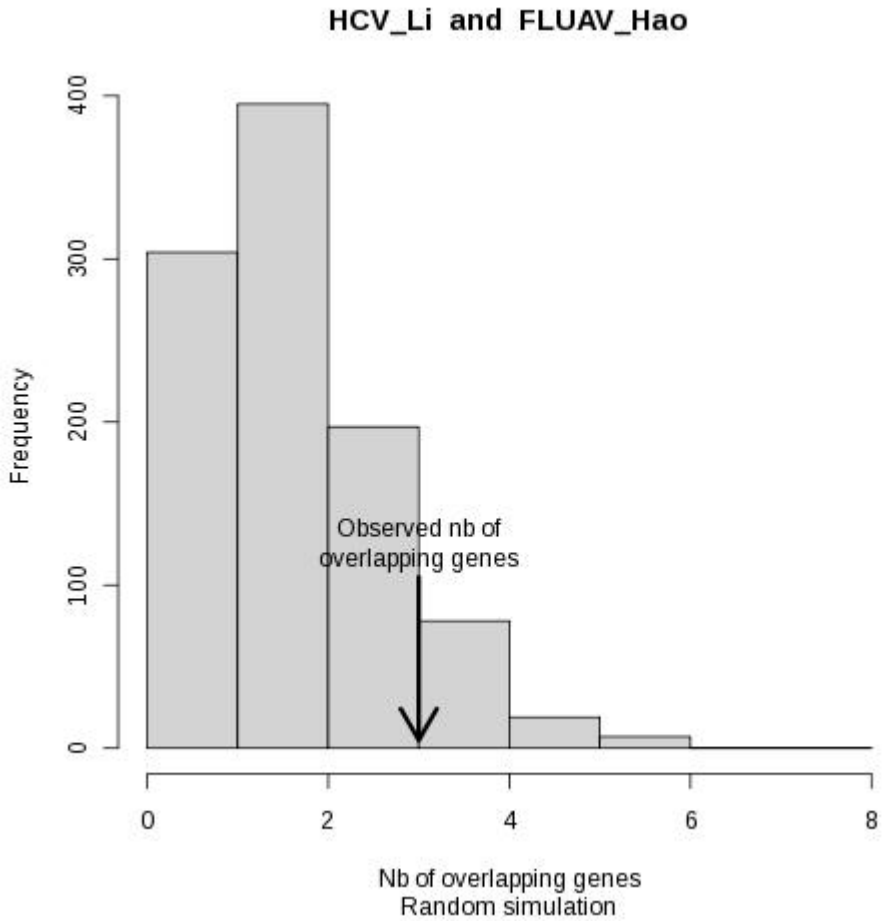
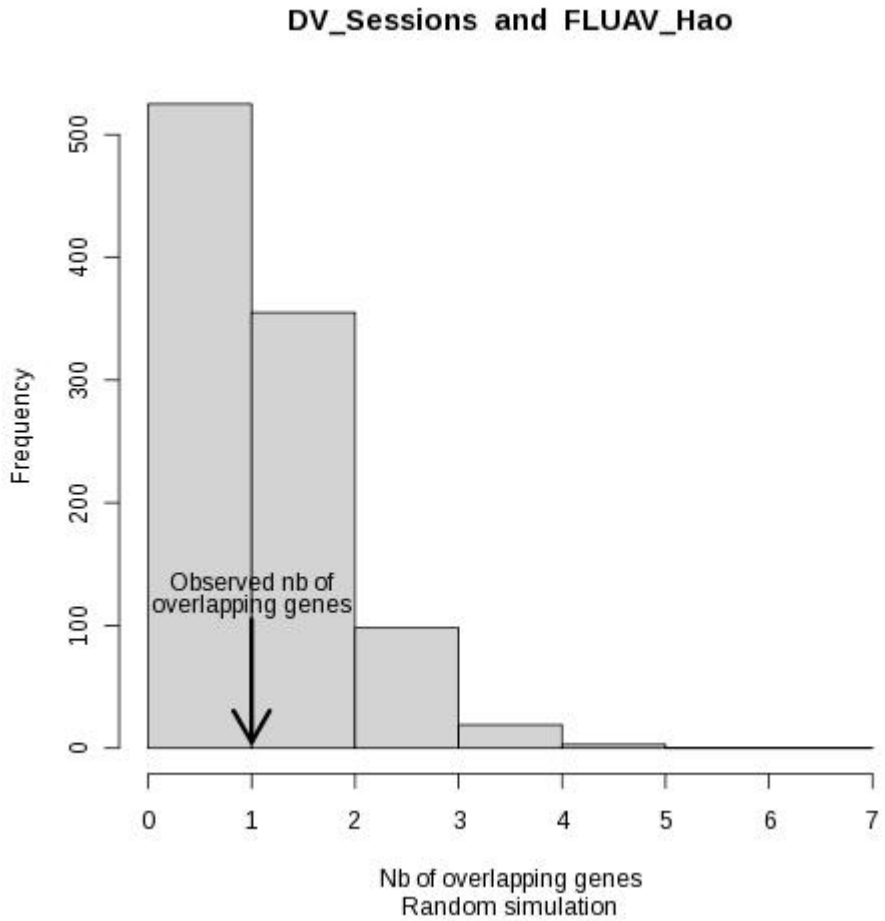
39. HCV_Li vs. FLUAV_Hao

HCV_Li: 19470 genes tested, 262 genes identified
FLUAV_Hao: 10278 genes tested, 78 genes identified
Number of overlapping genes: 3
List of overlapping genes: FAU, CNOT3, RAB10
Number of simulations showing 3 or more overlapping genes: 104/1000
P-value: 0,104
Random distribution:



40. DV_Sessions vs. FLUAV_Hao

DV_Sessions: 10278 genes tested, 81 genes identified
FLUAV_Hao: 10278 genes tested, 78 genes identified
Number of overlapping genes: 1
List of overlapping genes: ATP6V0D1
Number of simulations showing 1 or more overlapping genes: 475/1000
P-value: 0,475
Random distribution:



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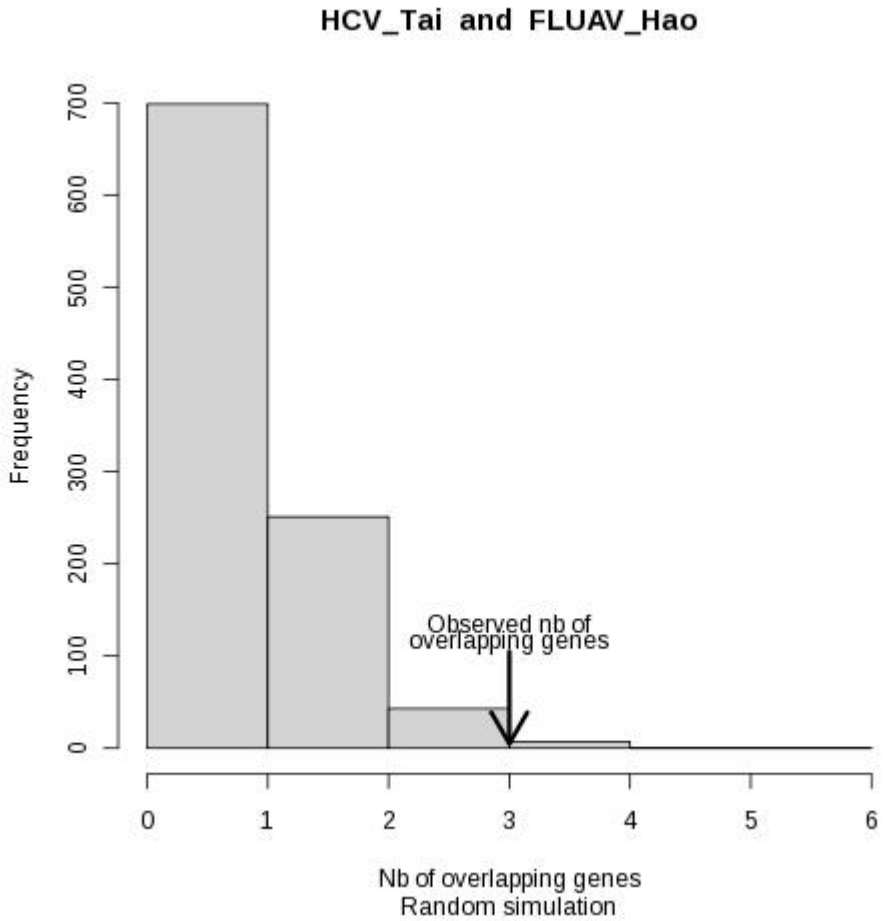
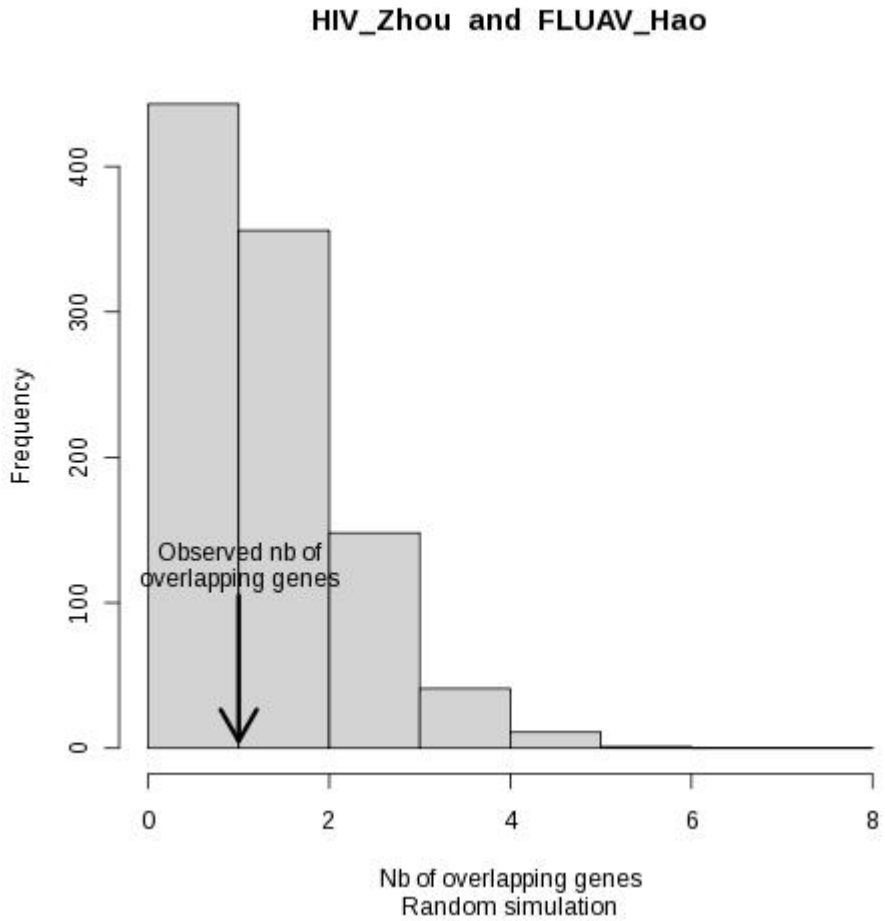
41. HCV_Tai vs. FLUAV_Hao

HCV_Tai: 21094 genes tested, 95 genes identified
FLUAV_Hao: 10278 genes tested, 78 genes identified
Number of overlapping genes: 3
List of overlapping genes: ARCN1, COPG, CCDC12
Number of simulations showing 3 or more overlapping genes: 7/1000
P-value: 0,007
Random distribution:



42. HIV_Zhou vs. FLUAV_Hao

HIV_Zhou: 20000 genes tested, 206 genes identified
FLUAV_Hao: 10278 genes tested, 78 genes identified
Number of overlapping genes: 1
List of overlapping genes: ATP5B
Number of simulations showing 1 or more overlapping genes: 557/1000
P-value: 0,557
Random distribution:



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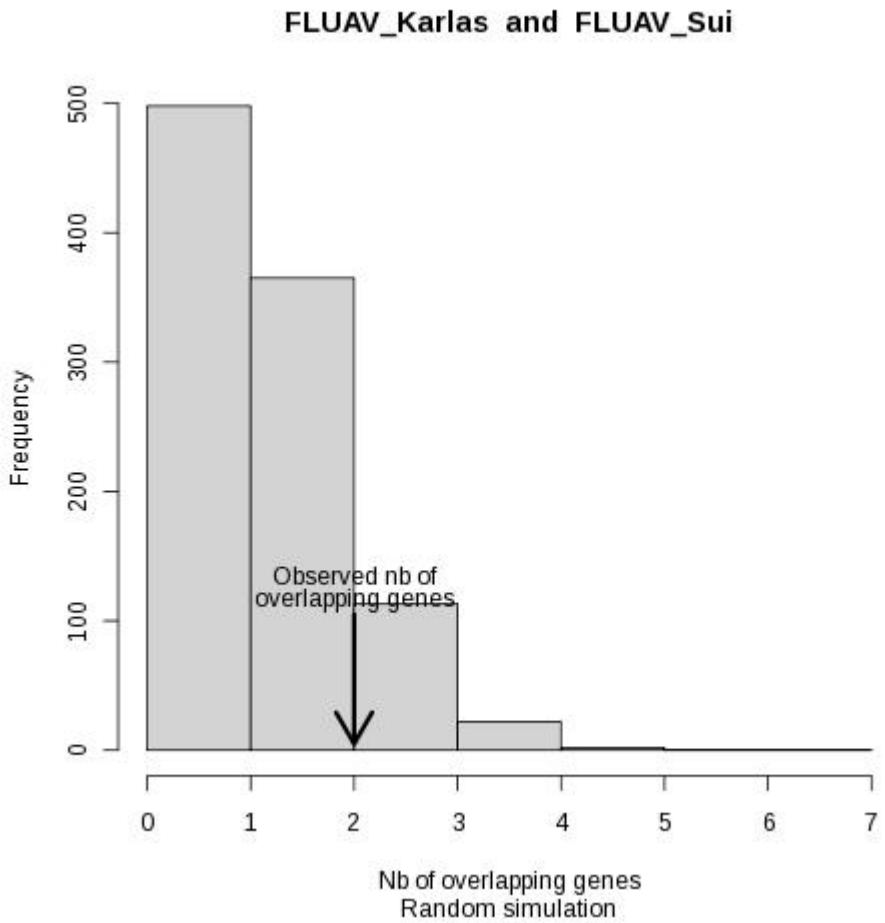
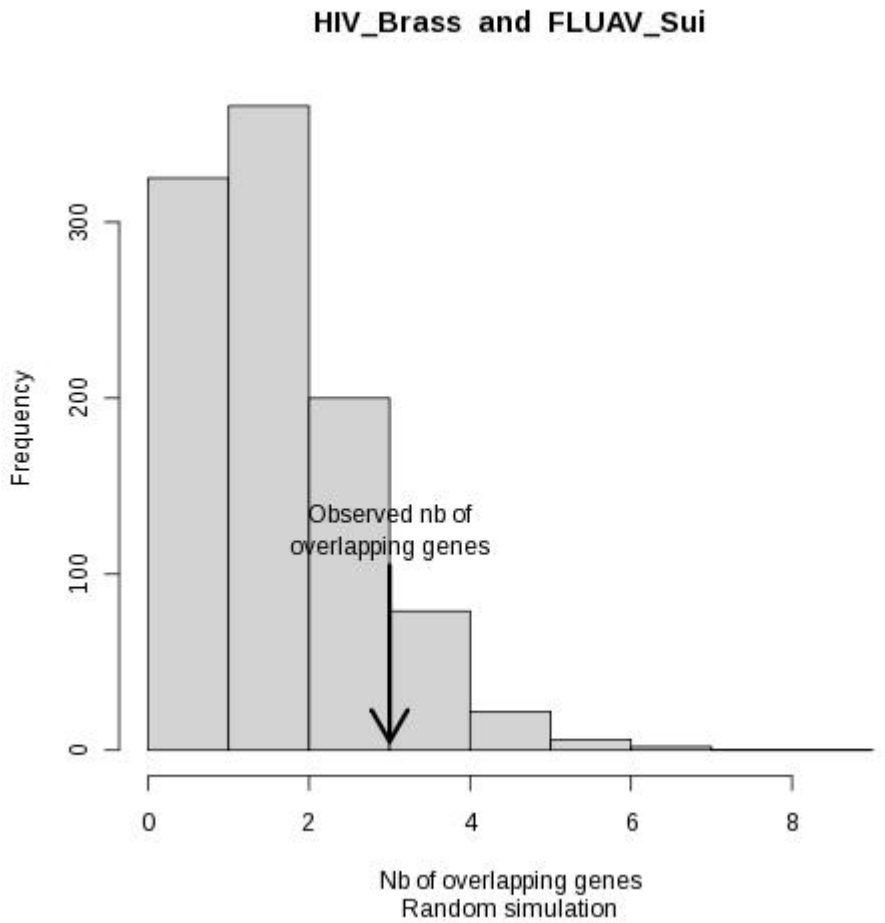
43. FLUAV_Karlas vs. FLUAV_Sui

FLUAV_Karlas: 22843 genes tested, 168 genes identified
FLUAV_Sui: 25157 genes tested, 99 genes identified
Number of overlapping genes: 2
List of overlapping genes: PLAU, SNW1
Number of simulations showing 2 or more overlapping genes: 137/1000
P-value: 0,137
Random distribution:



44. HIV_Brass vs. FLUAV_Sui

HIV_Brass: 21121 genes tested, 280 genes identified
FLUAV_Sui: 25157 genes tested, 99 genes identified
Number of overlapping genes: 3
List of overlapping genes: AKT1, CLNS1A, MDN1
Number of simulations showing 3 or more overlapping genes: 109/1000
P-value: 0,109
Random distribution:



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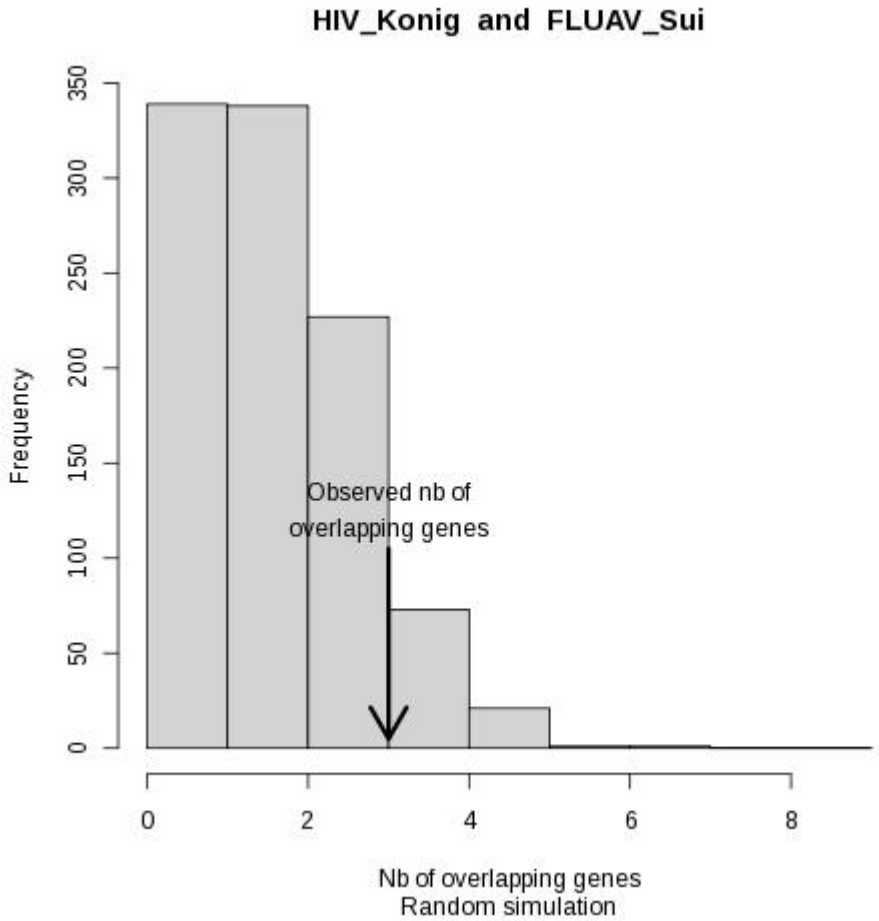
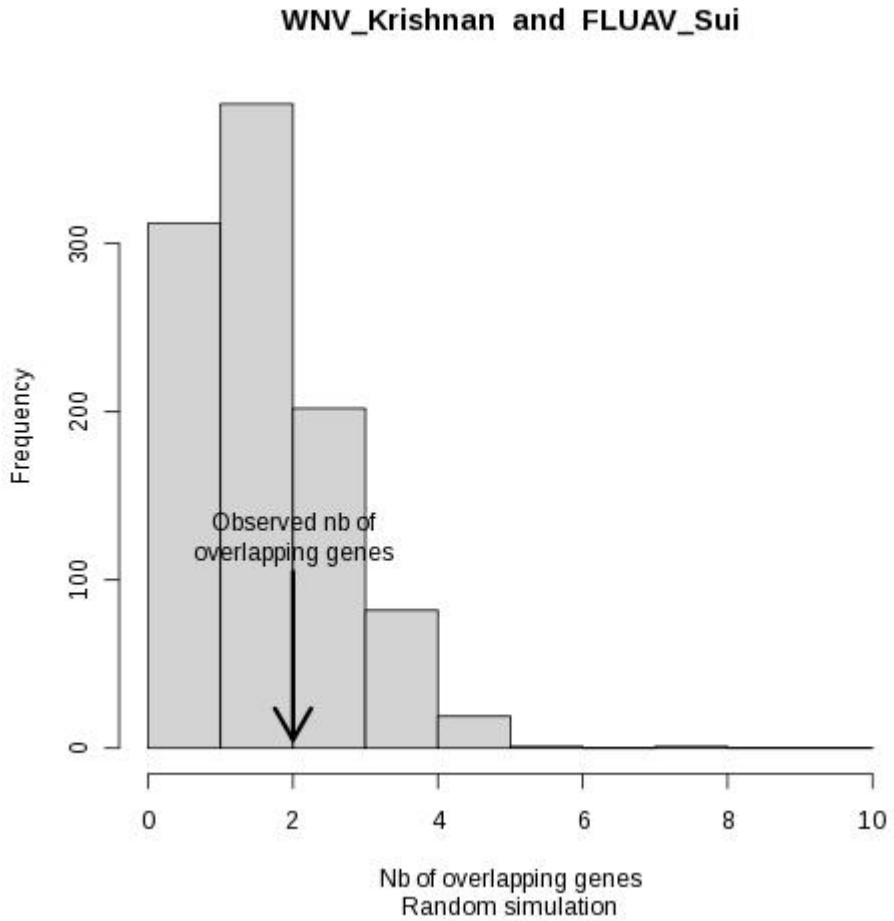
45. HIV_Konig vs. FLUAV_Sui

HIV_Konig: 19628 genes tested, 295 genes identified
FLUAV_Sui: 25157 genes tested, 99 genes identified
Number of overlapping genes: 3
List of overlapping genes: STXBP1, SNW1, NDUFAF2
Number of simulations showing 3 or more overlapping genes: 96/1000
P-value: 0,096
Random distribution:



46. WNV_Krishnan vs. FLUAV_Sui

WNV_Krishnan: 21121 genes tested, 305 genes identified
FLUAV_Sui: 25157 genes tested, 99 genes identified
Number of overlapping genes: 2
List of overlapping genes: GRK6, VPS33A
Number of simulations showing 2 or more overlapping genes: 305/1000
P-value: 0,305
Random distribution:



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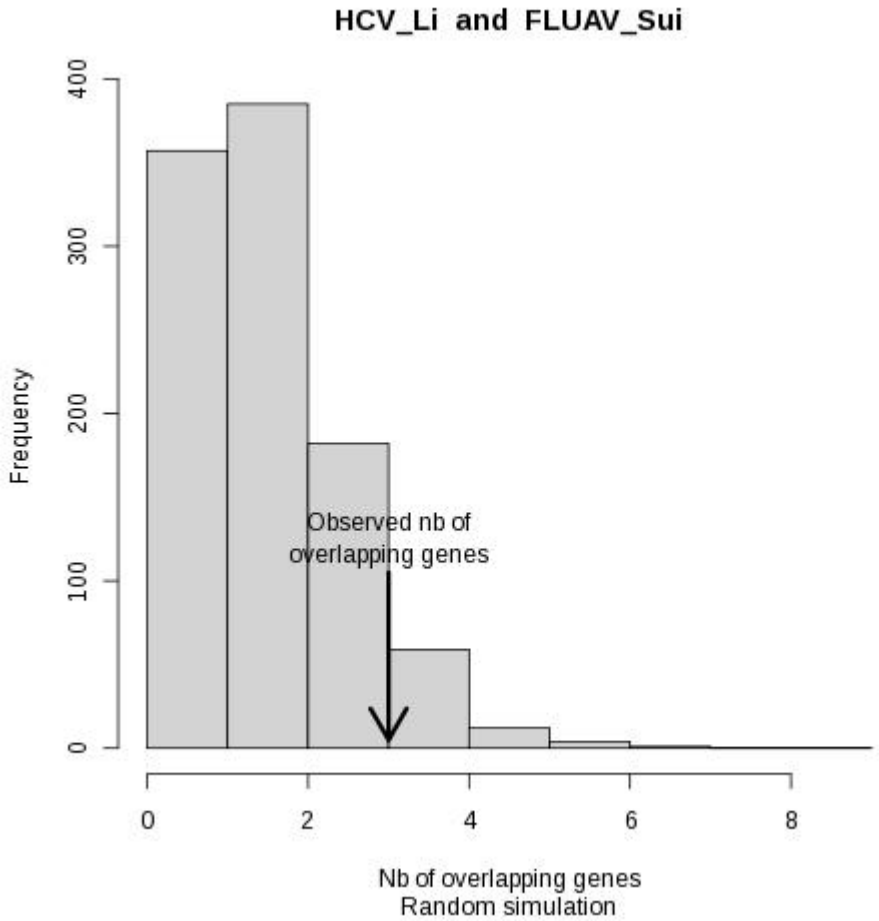
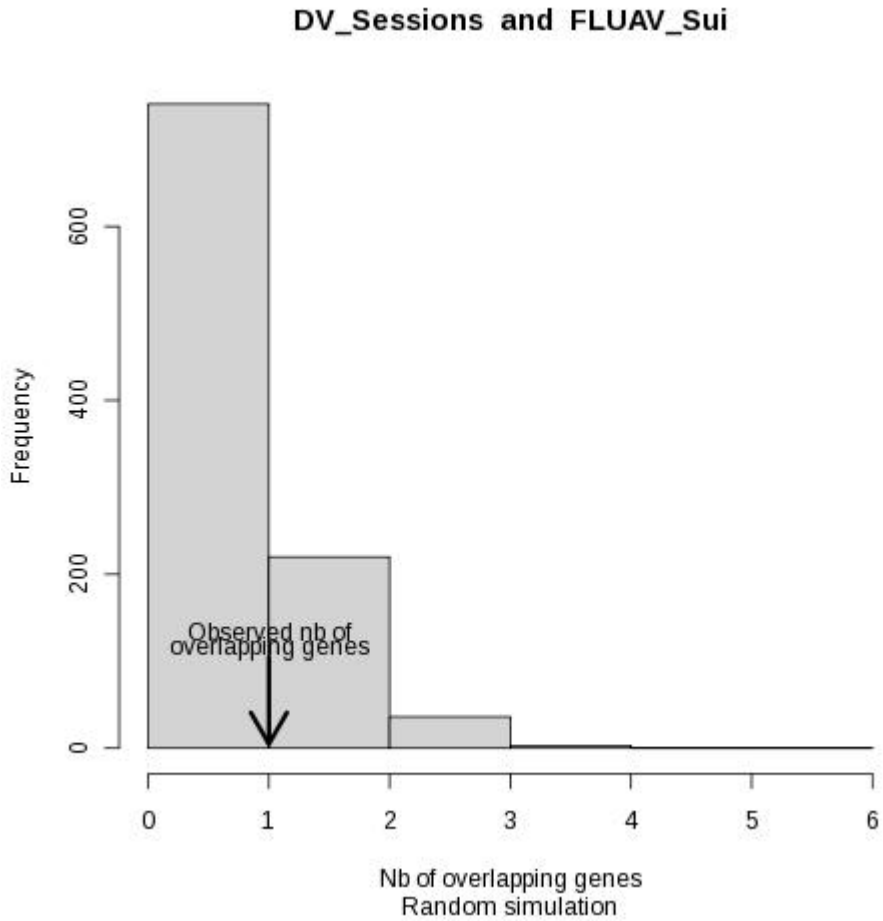
47. HCV_Li vs. FLUAV_Sui

HCV_Li: 19470 genes tested, 262 genes identified
FLUAV_Sui: 25157 genes tested, 99 genes identified
Number of overlapping genes: 3
List of overlapping genes: MARK3, STAT3, SUZ12
Number of simulations showing 3 or more overlapping genes: 76/1000
P-value: 0,076
Random distribution:



48. DV_Sessions vs. FLUAV_Sui

DV_Sessions: 10278 genes tested, 81 genes identified
FLUAV_Sui: 25157 genes tested, 99 genes identified
Number of overlapping genes: 1
List of overlapping genes: FAM13B
Number of simulations showing 1 or more overlapping genes: 259/1000
P-value: 0,259
Random distribution:



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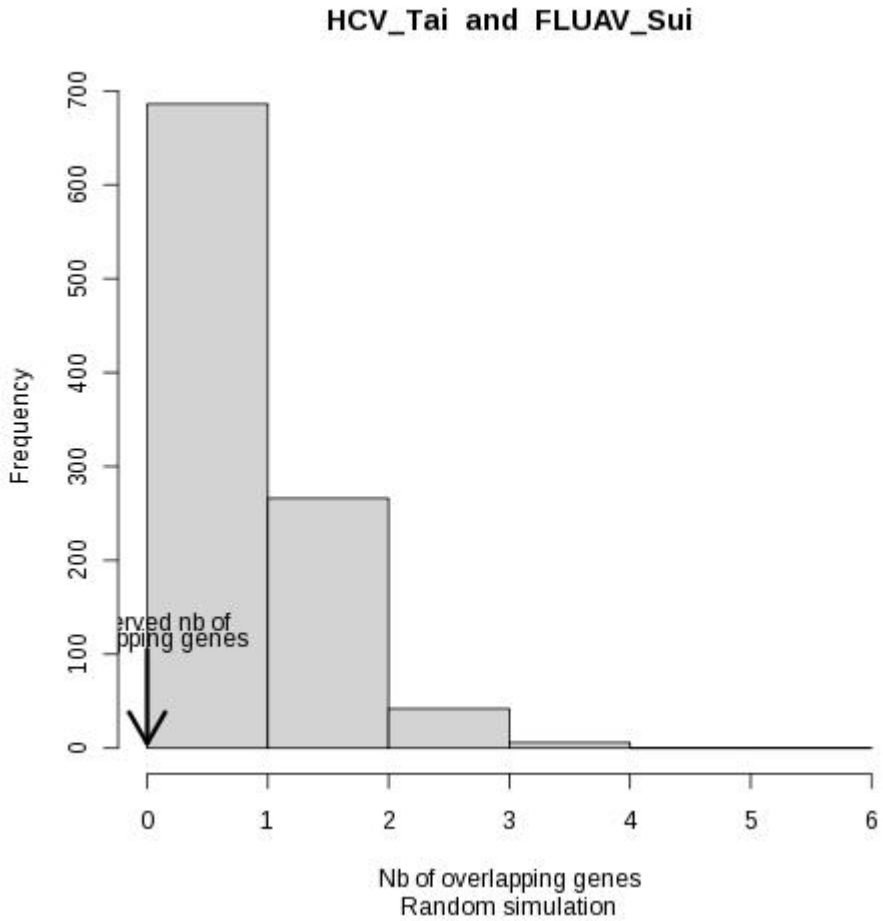
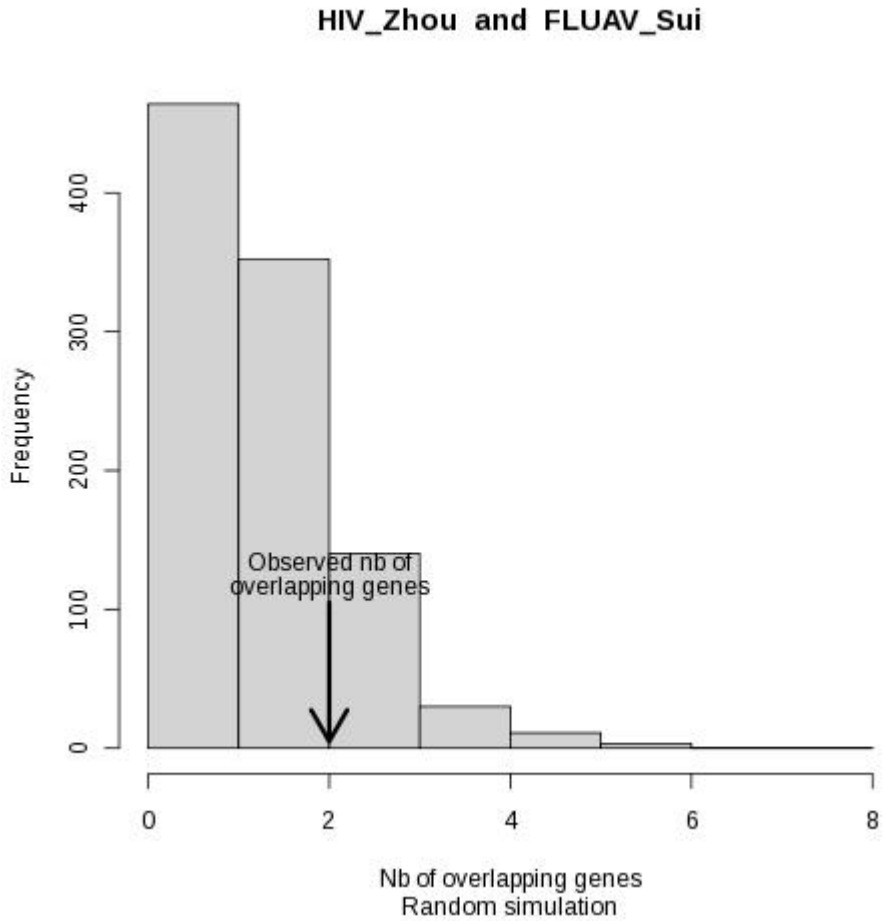
49. HCV_Tai vs. FLUAV_Sui

HCV_Tai: 21094 genes tested, 95 genes identified
FLUAV_Sui: 25157 genes tested, 99 genes identified
Number of overlapping genes: 0
List of overlapping genes: none
Number of simulations showing 0 or more overlapping genes: 1000/1000
P-value: 1
Random distribution:



50. HIV_Zhou vs. FLUAV_Sui

HIV_Zhou: 20000 genes tested, 206 genes identified
FLUAV_Sui: 25157 genes tested, 99 genes identified
Number of overlapping genes: 2
List of overlapping genes: AKT1, STIP1
Number of simulations showing 2 or more overlapping genes: 184/1000
P-value: 0,184
Random distribution:



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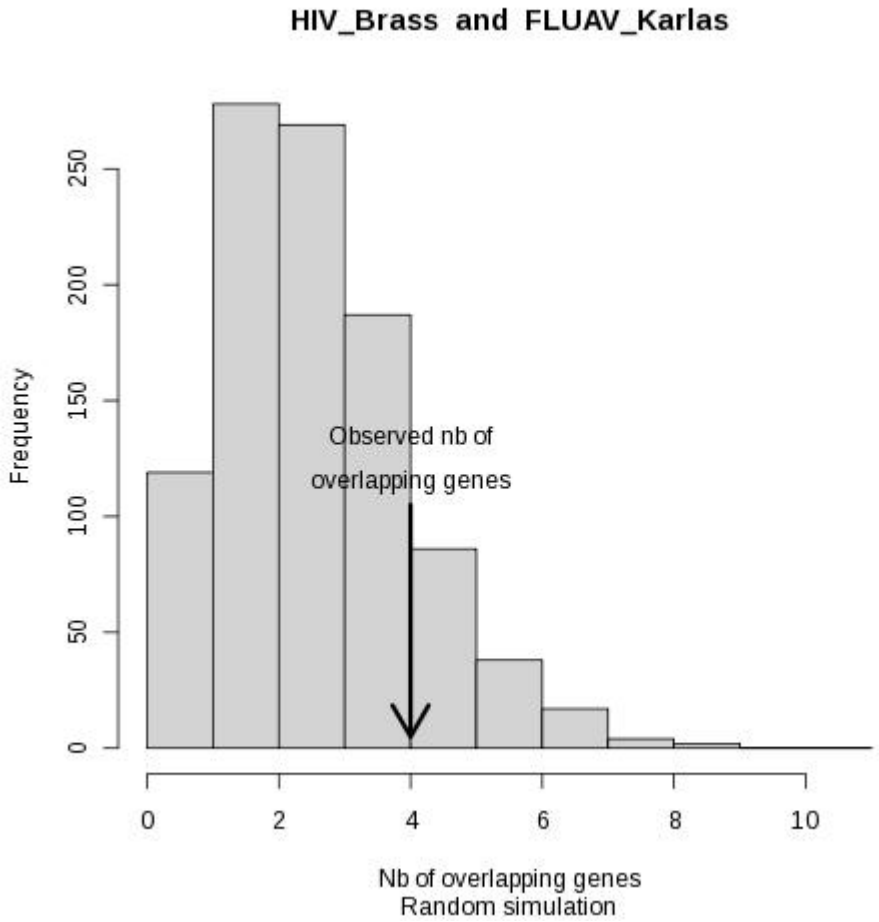
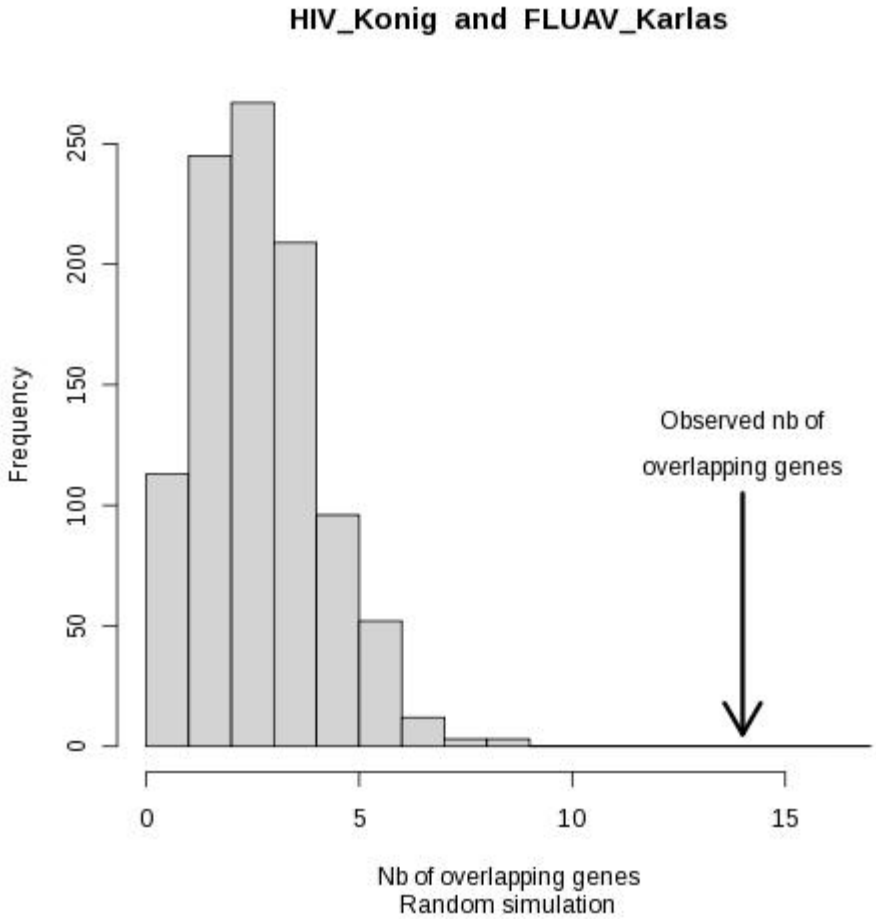
51. HIV_Brass vs. FLUAV_Karlas

HIV_Brass: 21121 genes tested, 280 genes identified
FLUAV_Karlas: 22843 genes tested, 168 genes identified
Number of overlapping genes: 4
List of overlapping genes: AP2M1, TFE3, MED6, ZBTB2
Number of simulations showing 4 or more overlapping genes: 147/1000
P-value: 0,147
Random distribution:



52. HIV_Konig vs. FLUAV_Karlas

HIV_Konig: 19628 genes tested, 295 genes identified
FLUAV_Karlas: 22843 genes tested, 168 genes identified
Number of overlapping genes: 14
List of overlapping genes: ATP6V0C, KPNB1, NUP98, PHF2, PSMA1, MED6, SF3A1, NXF1, PRPF8, SNW1, STAB1, SF3B1, PPP1R14D, XAB2
Number of simulations showing 14 or more overlapping genes: 0/1000
P-value: < 0,001
Random distribution:



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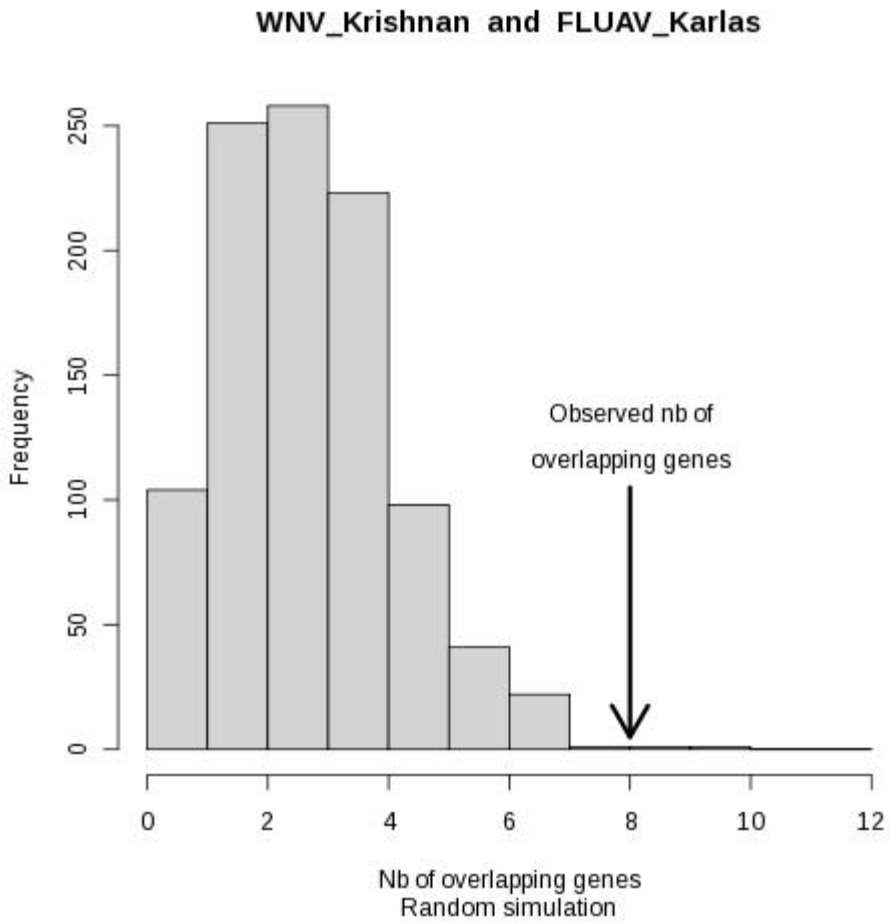
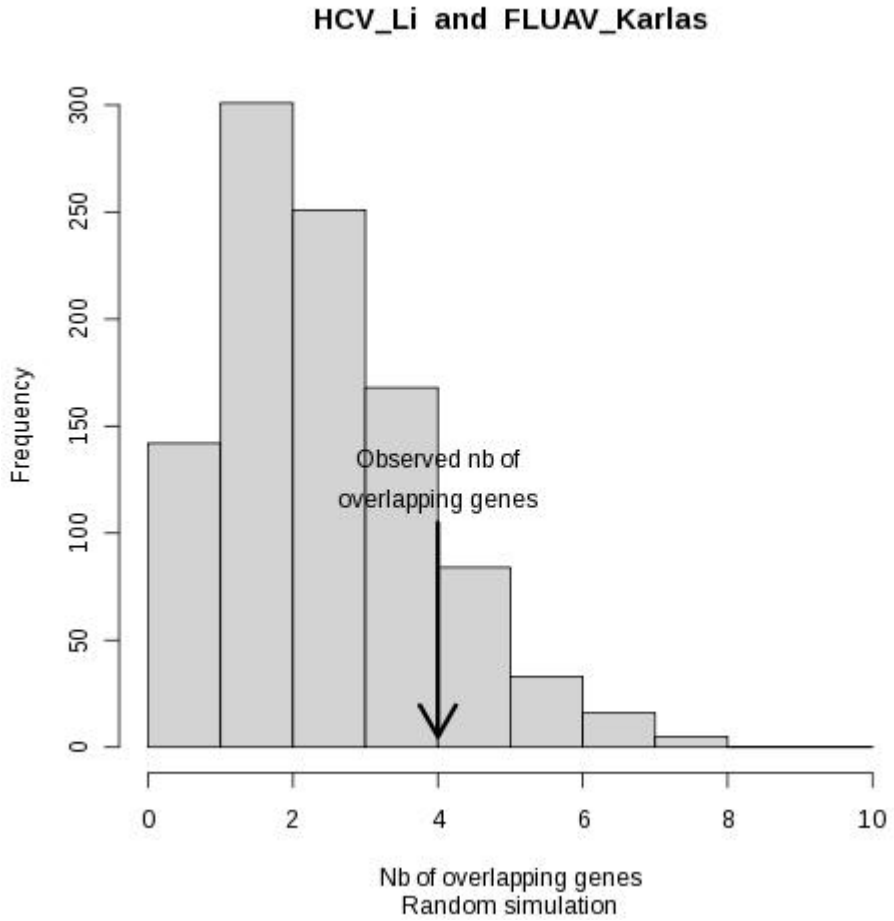
53. WNV_Krishnan vs. FLUAV_Karlas

WNV_Krishnan: 21121 genes tested, 305 genes identified
FLUAV_Karlas: 22843 genes tested, 168 genes identified
Number of overlapping genes: 8
List of overlapping genes: ATCAY, ATP6V1A, ATP6V1B2, ATP6V0C, ATP6AP1, CLK1, ATP6V0D1, XAB2
Number of simulations showing 8 or more overlapping genes: 2/1000
P-value: 0,002
Random distribution:



54. HCV_Li vs. FLUAV_Karlas

HCV_Li: 19470 genes tested, 262 genes identified
FLUAV_Karlas: 22843 genes tested, 168 genes identified
Number of overlapping genes: 4
List of overlapping genes: TNFRSF18, FAU, XPNPEP1, SRRM2
Number of simulations showing 4 or more overlapping genes: 138/1000
P-value: 0,138
Random distribution:



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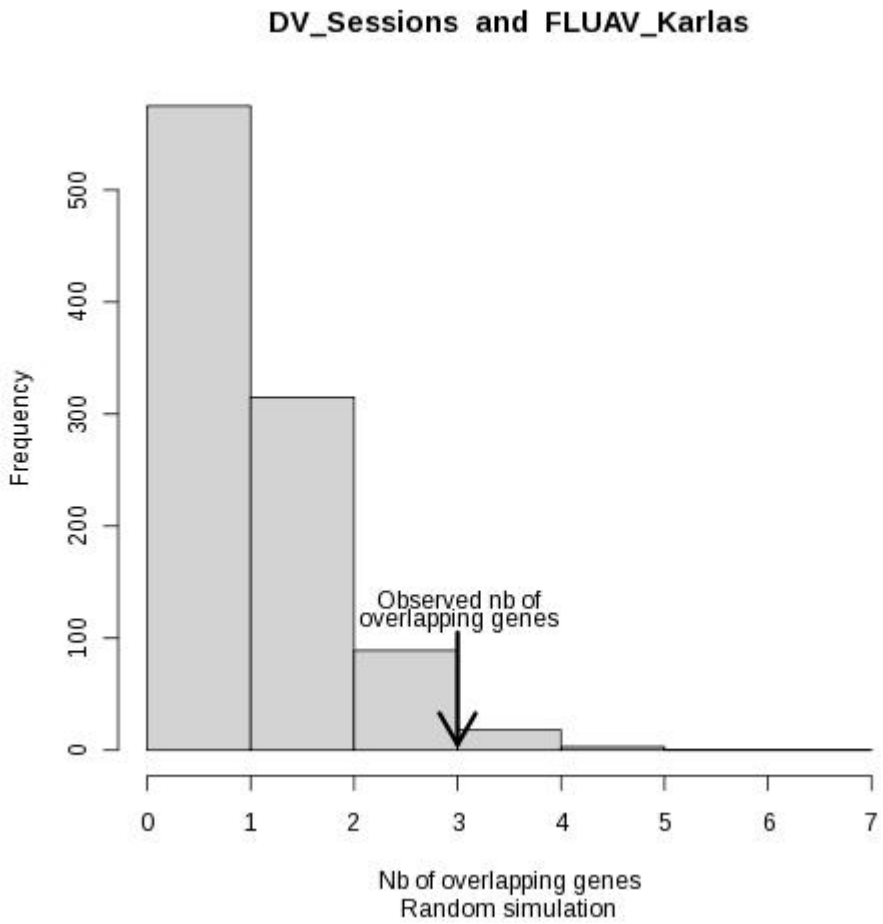
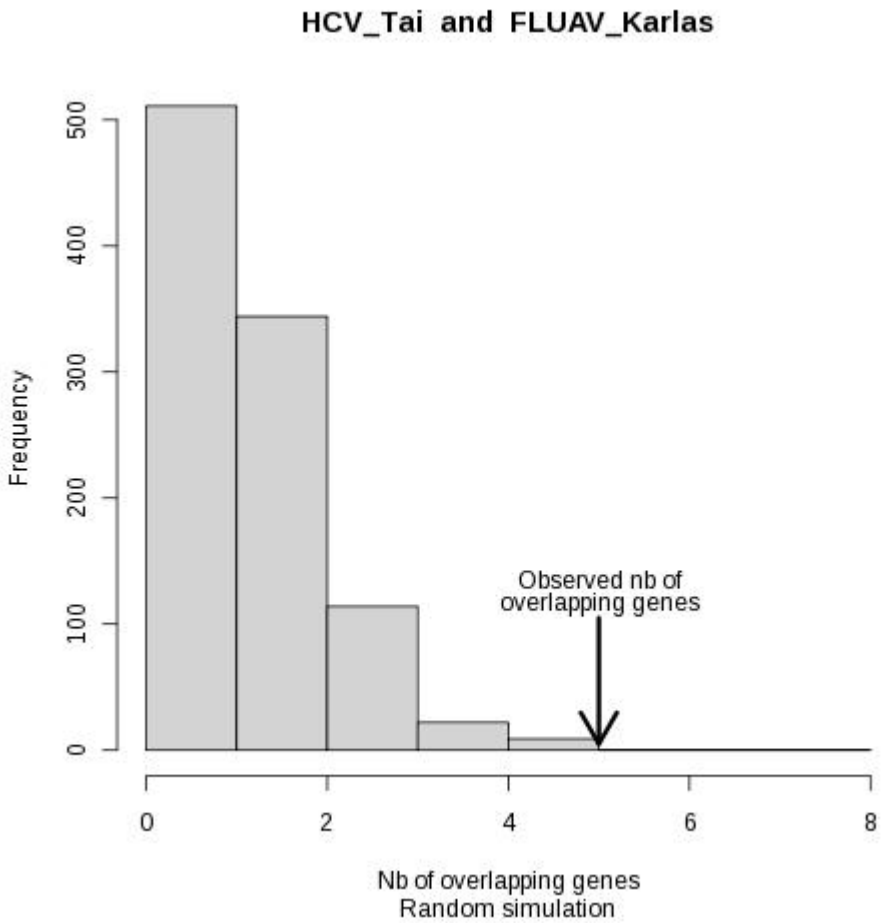
55. DV_Sessions vs. FLUAV_Karlas

DV_Sessions: 10278 genes tested, 81 genes identified
FLUAV_Karlas: 22843 genes tested, 168 genes identified
Number of overlapping genes: 3
List of overlapping genes: RUNX1, PHF2, ATP6V0D1
Number of simulations showing 3 or more overlapping genes: 21/1000
P-value: 0,021
Random distribution:



56. HCV_Tai vs. FLUAV_Karlas

HCV_Tai: 21094 genes tested, 95 genes identified
FLUAV_Karlas: 22843 genes tested, 168 genes identified
Number of overlapping genes: 5
List of overlapping genes: COPA, COPB1, COPB2, TBL3, COPG
Number of simulations showing 5 or more overlapping genes: 0/1000
P-value: < 0,001
Random distribution:



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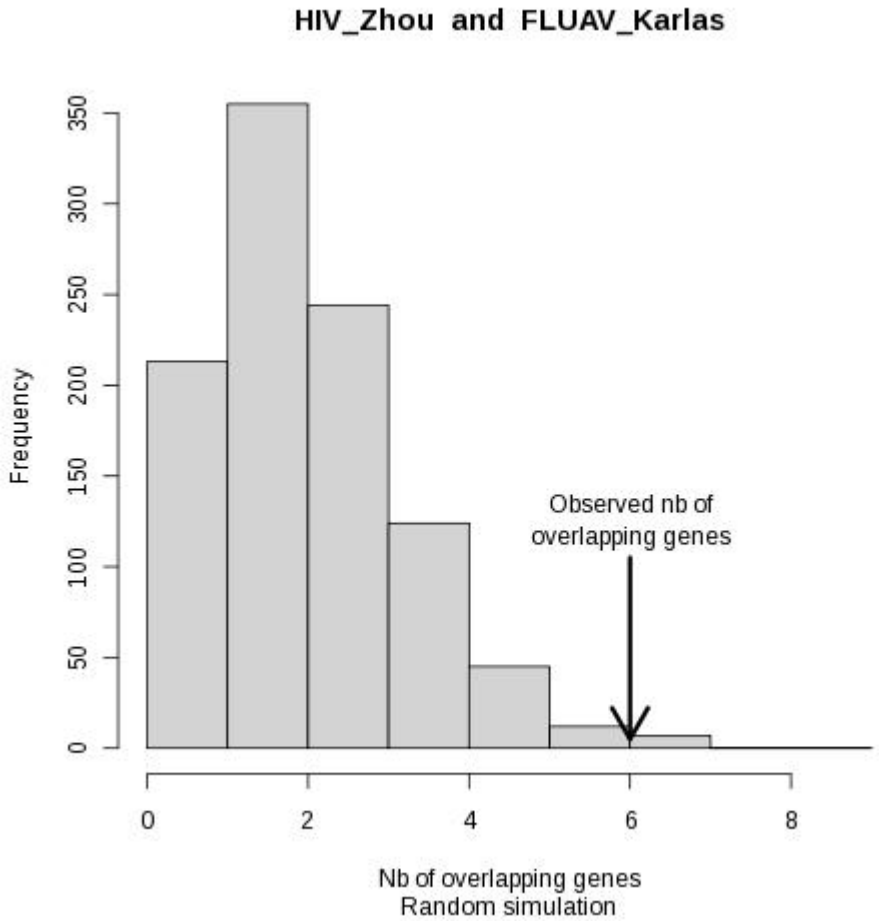
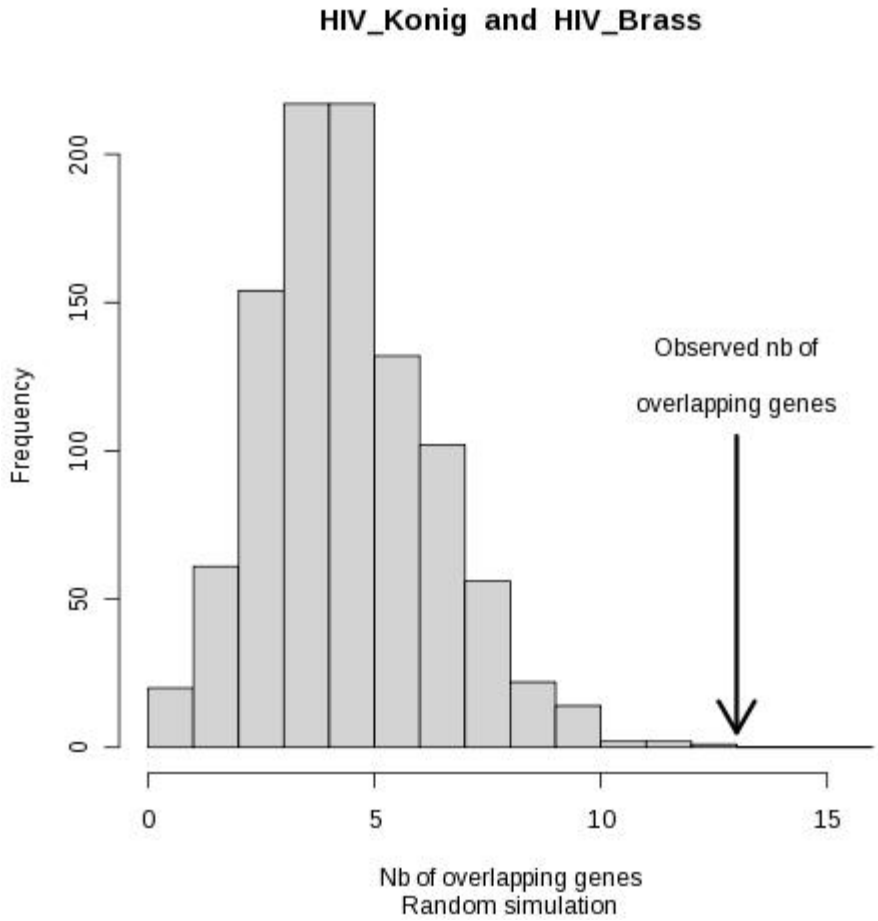
57. HIV_Zhou vs. FLUAV_Karlas

HIV_Zhou: 20000 genes tested, 206 genes identified
FLUAV_Karlas: 22843 genes tested, 168 genes identified
Number of overlapping genes: 6
List of overlapping genes: IL1A, POLR2H, POLR2L, XPO1, MED6, NEK9
Number of simulations showing 6 or more overlapping genes: 7/1000
P-value: 0,007
Random distribution:



58. HIV_Konig vs. HIV_Brass

HIV_Konig: 19628 genes tested, 295 genes identified
HIV_Brass: 21121 genes tested, 280 genes identified
Number of overlapping genes: 13
List of overlapping genes: DMXL1, IDH1, MAP4, RANBP2, RELA, CTDP1, MED14, MED7, NUP153, MED6, TNPO3, MID1IP1, TRIM55
Number of simulations showing 13 or more overlapping genes: 0/1000
P-value: < 0,001
Random distribution:



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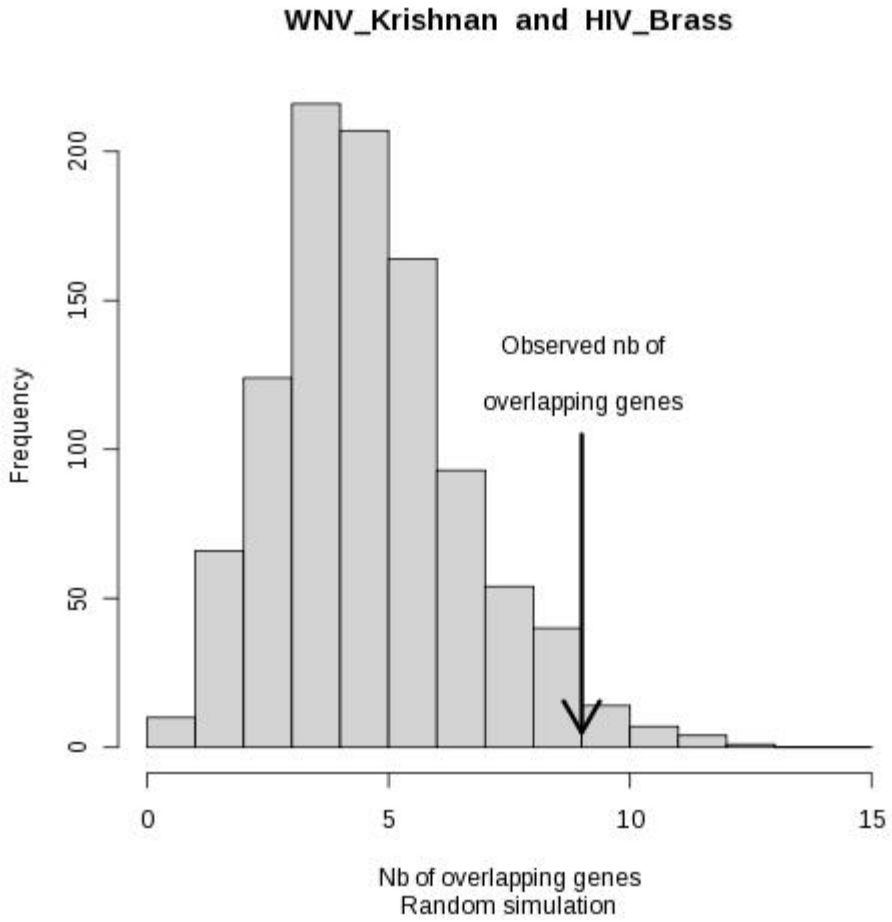
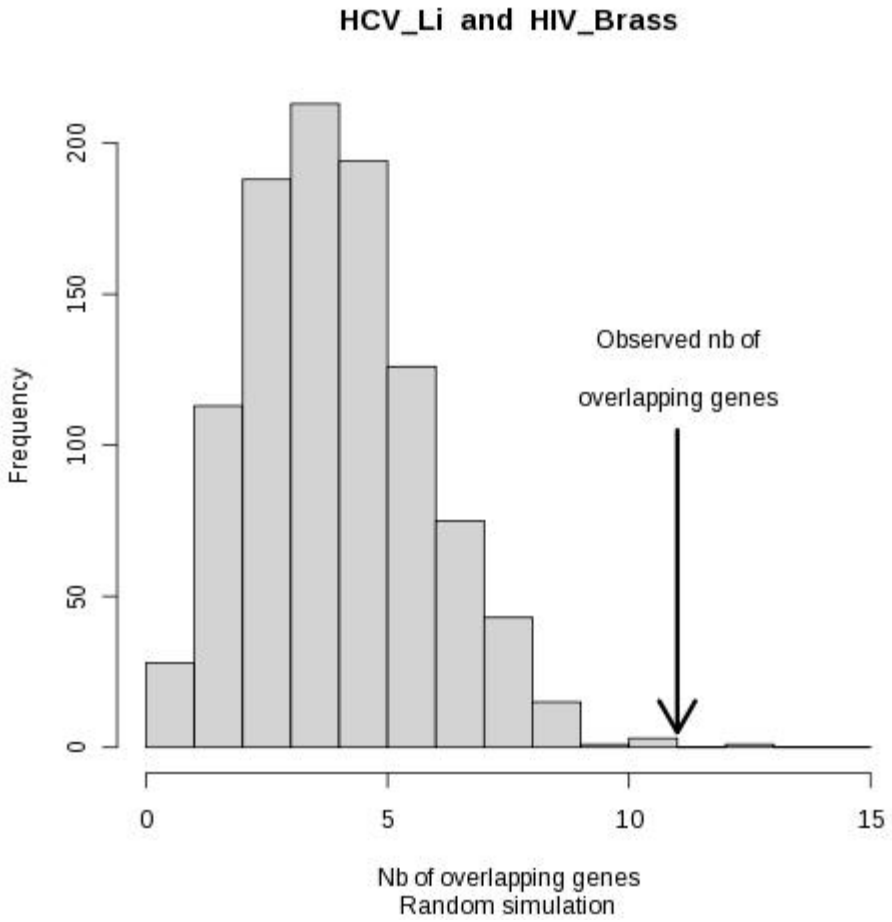
59. WNV_Krishnan vs. HIV_Brass

WNV_Krishnan: 21121 genes tested, 305 genes identified
HIV_Brass: 21121 genes tested, 280 genes identified
Number of overlapping genes: 9
List of overlapping genes: ATP6V0A1, USP6, SCFD1, KLHL1, TRAPPC1, MID1IP1, RFWD2, CRTC3, RIMS4
Number of simulations showing 9 or more overlapping genes: 26/1000
P-value: 0,026
Random distribution:



60. HCV_Li vs. HIV_Brass

HCV_Li: 19470 genes tested, 262 genes identified
HIV_Brass: 21121 genes tested, 280 genes identified
Number of overlapping genes: 11
List of overlapping genes: DDOST, DDX3X, ETF1, DNAJB1, MAP4, NMT1, RABEPK, SUV420H1, HEATR1, SPCS3, RGPD5
Number of simulations showing 11 or more overlapping genes: 1/1000
P-value: 0,001
Random distribution:



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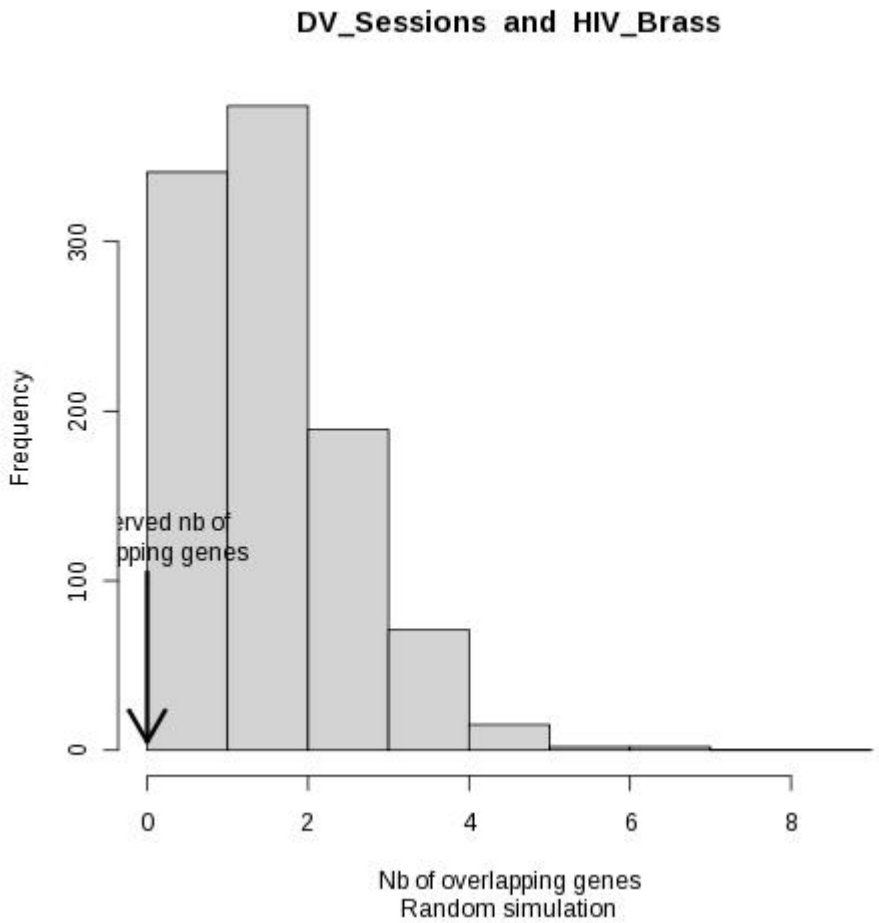
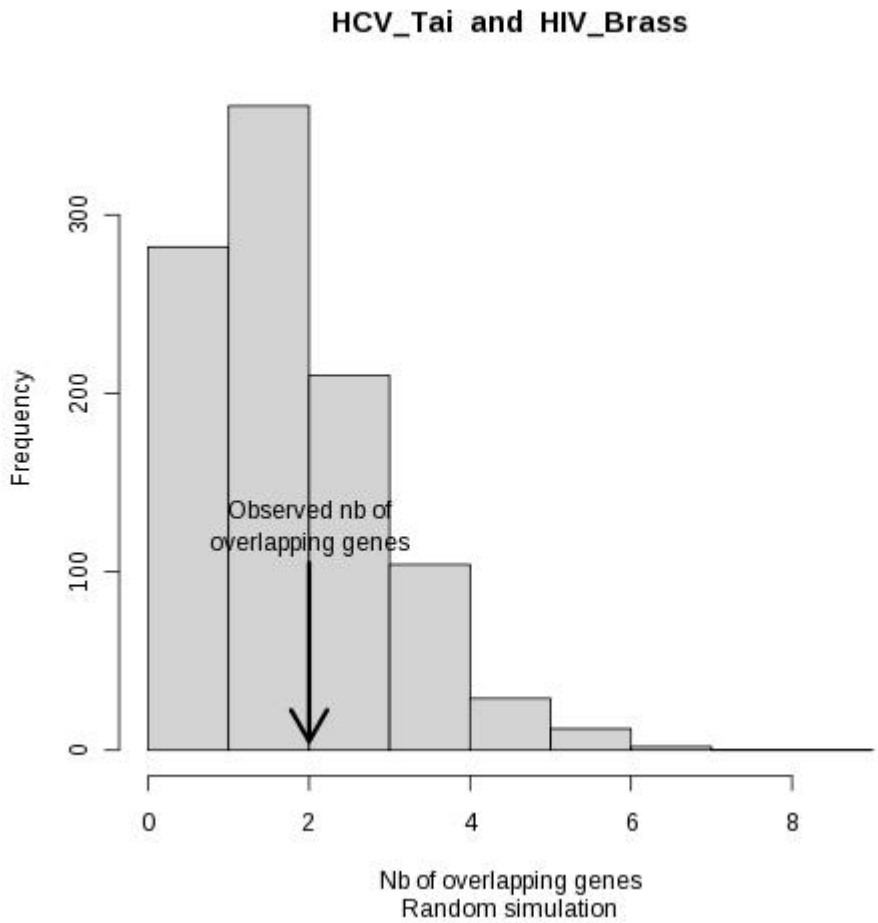
61. DV_Sessions vs. HIV_Brass

DV_Sessions: 10278 genes tested, 81 genes identified
HIV_Brass: 21121 genes tested, 280 genes identified
Number of overlapping genes: 0
List of overlapping genes: none
Number of simulations showing 0 or more overlapping genes: 1000/1000
P-value: 1
Random distribution:



62. HCV_Tai vs. HIV_Brass

HCV_Tai: 21094 genes tested, 95 genes identified
HIV_Brass: 21121 genes tested, 280 genes identified
Number of overlapping genes: 2
List of overlapping genes: CACNG1, RABEPK
Number of simulations showing 2 or more overlapping genes: 357/1000
P-value: 0,357
Random distribution:



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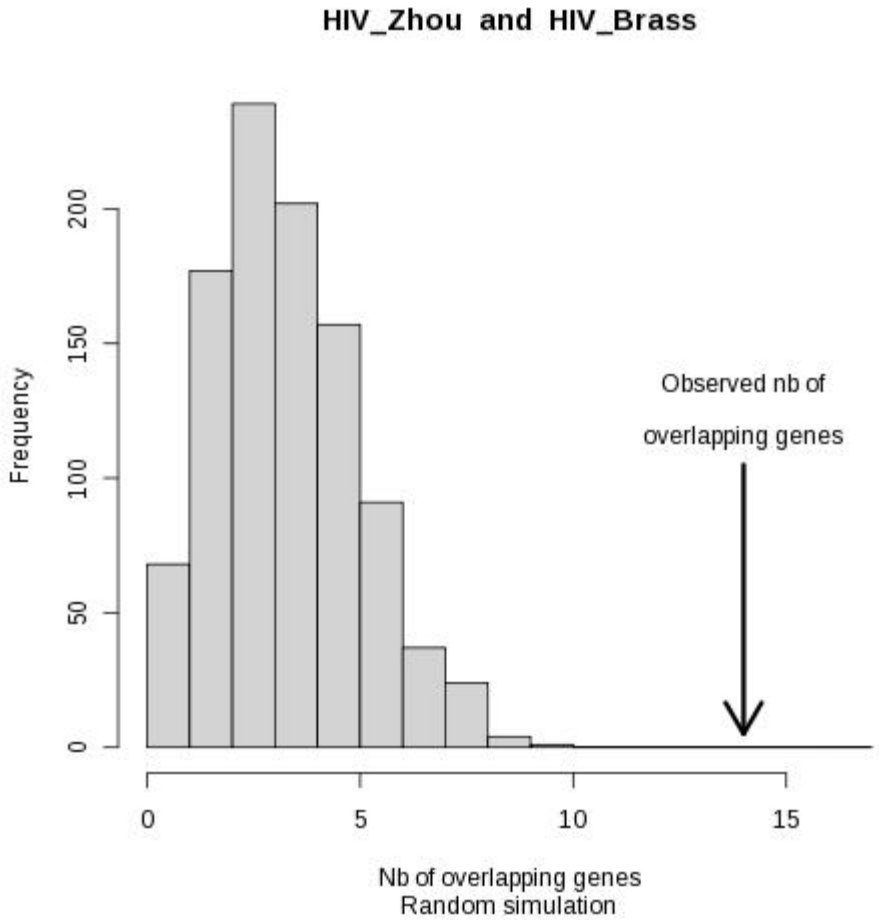
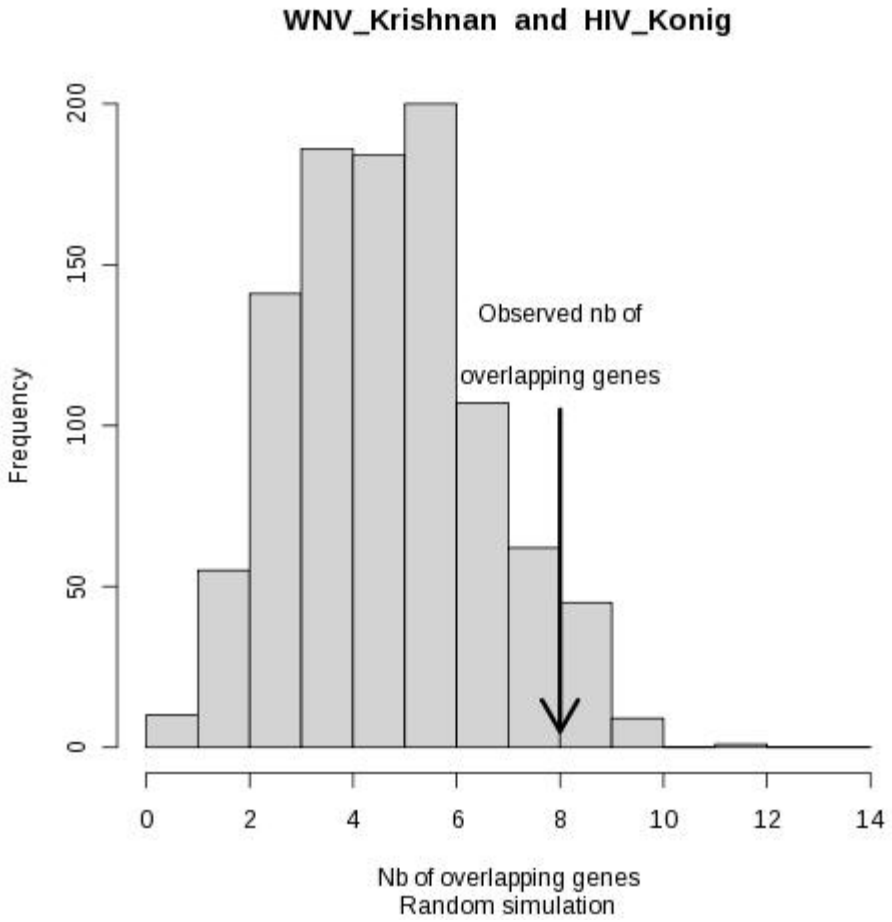
63. HIV_Zhou vs. HIV_Brass

HIV_Zhou: 20000 genes tested, 206 genes identified
HIV_Brass: 21121 genes tested, 280 genes identified
Number of overlapping genes: 14
List of overlapping genes: AKT1, CD4, DDX3X, JAK1, RELA, TCEB3, CXCR4, RAB28, MED7, MED6, MED4, WNK1, RNF26, MED28
Number of simulations showing 14 or more overlapping genes: 0/1000
P-value: 0,000
Random distribution:



64. WNV_Krishnan vs. HIV_Konig

WNV_Krishnan: 21121 genes tested, 305 genes identified
HIV_Konig: 19628 genes tested, 295 genes identified
Number of overlapping genes: 8
List of overlapping genes: ATP6V0C, DHX15, MT2A, NUMBL, RBM5, XAB2, MID1IP1, NDFIP1
Number of simulations showing 8 or more overlapping genes: 55/1000
P-value: 0,055
Random distribution:



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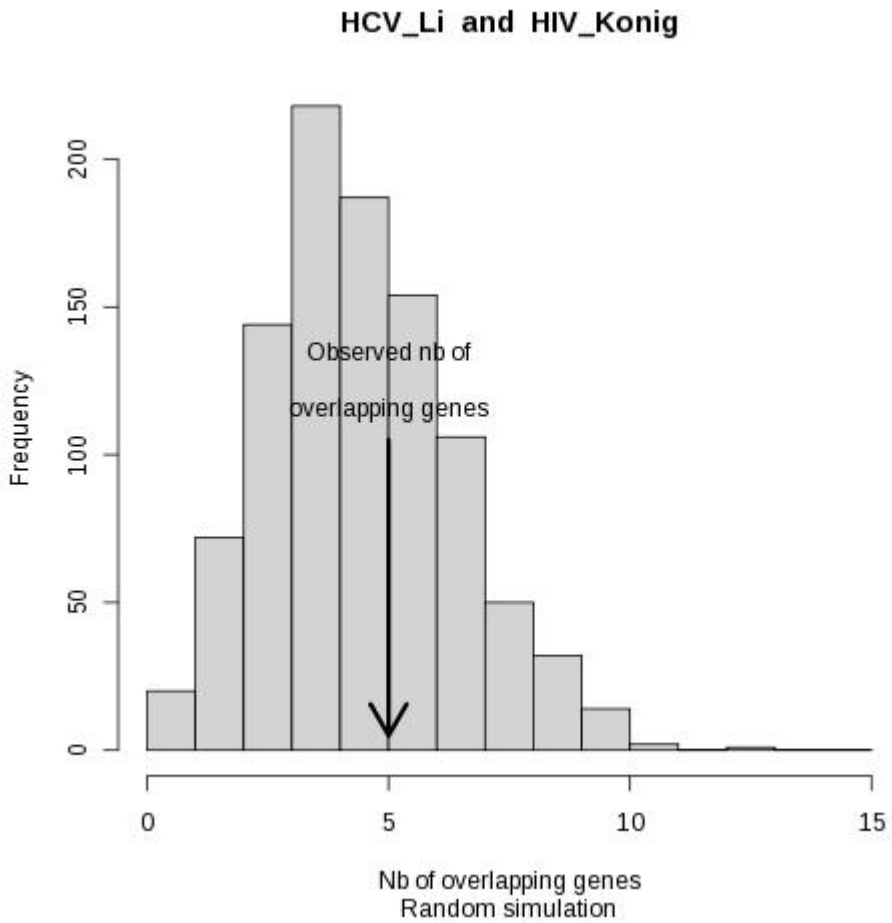
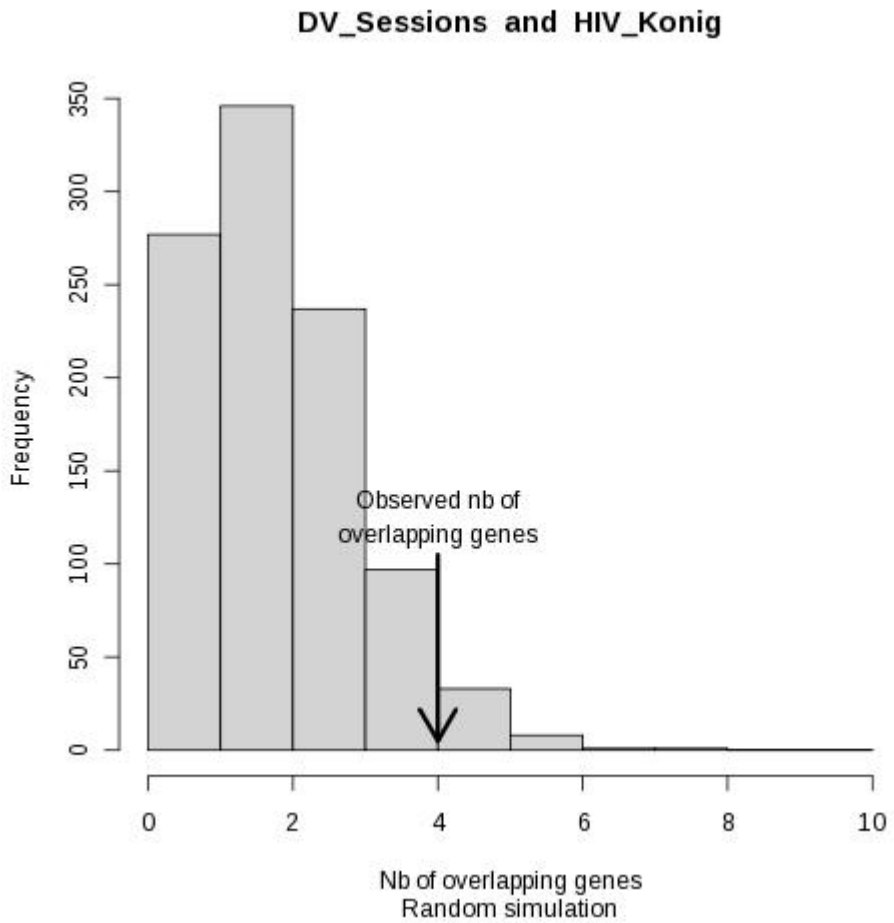
65. HCV_Li vs. HIV_Konig

HCV_Li: 19470 genes tested, 262 genes identified
HIV_Konig: 19628 genes tested, 295 genes identified
Number of overlapping genes: 5
List of overlapping genes: ERCC5, MAP4, ZNF148, DLGAP4, MYOF
Number of simulations showing 5 or more overlapping genes: 359/1000
P-value: 0,359
Random distribution:



66. DV_Sessions vs. HIV_Konig

DV_Sessions: 10278 genes tested, 81 genes identified
HIV_Konig: 19628 genes tested, 295 genes identified
Number of overlapping genes: 4
List of overlapping genes: PHF2, RREB1, GANAB, AMDHD2
Number of simulations showing 4 or more overlapping genes: 43/1000
P-value: 0,043
Random distribution:



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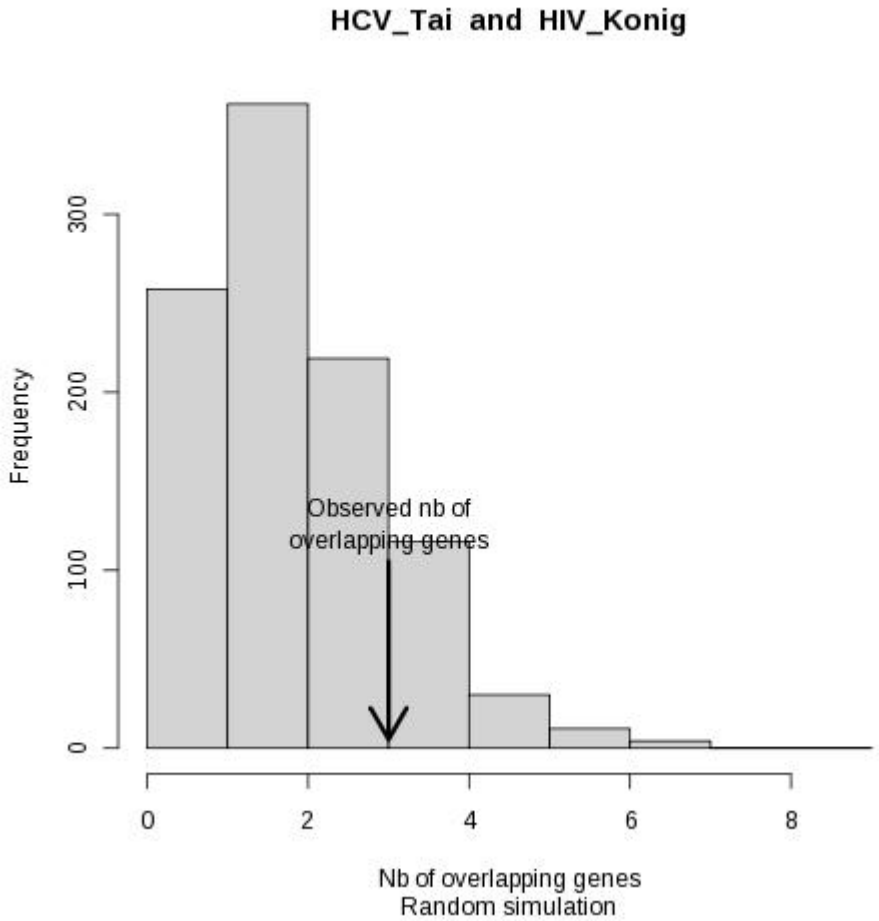
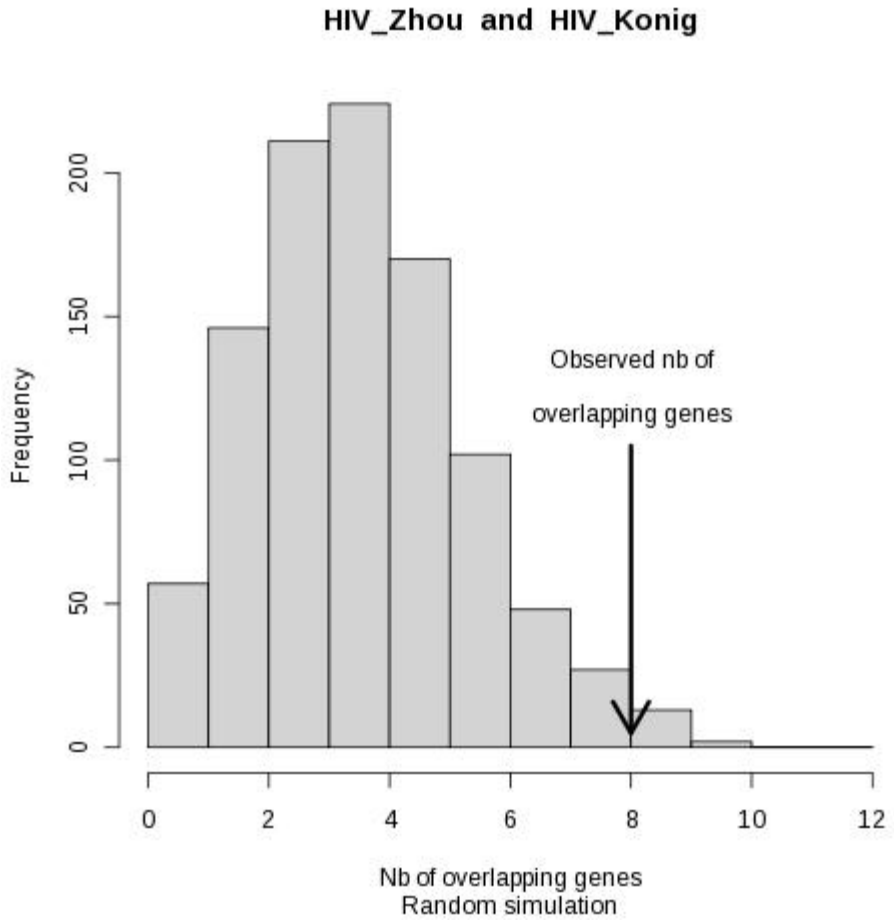
67. HCV_Tai vs. HIV_Konig

HCV_Tai: 21094 genes tested, 95 genes identified
HIV_Konig: 19628 genes tested, 295 genes identified
Number of overlapping genes: 3
List of overlapping genes: ERCC1, NCOA6, COASY
Number of simulations showing 3 or more overlapping genes: 161/1000
P-value: 0,161
Random distribution:



68. HIV_Zhou vs. HIV_Konig

HIV_Zhou: 20000 genes tested, 206 genes identified
HIV_Konig: 19628 genes tested, 295 genes identified
Number of overlapping genes: 8
List of overlapping genes: ADRBK1, RELA, CHST1, MED7, MED6, ANAPC2, MED19, HMCN2
Number of simulations showing 8 or more overlapping genes: 15/1000
P-value: 0,015
Random distribution:



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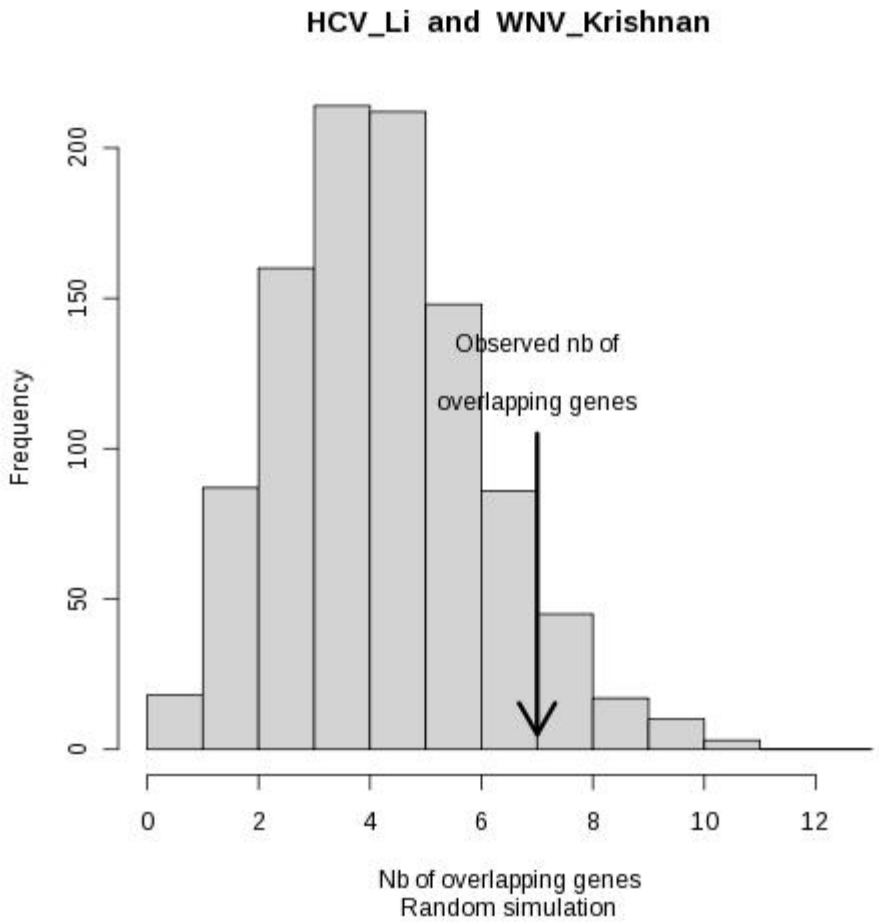
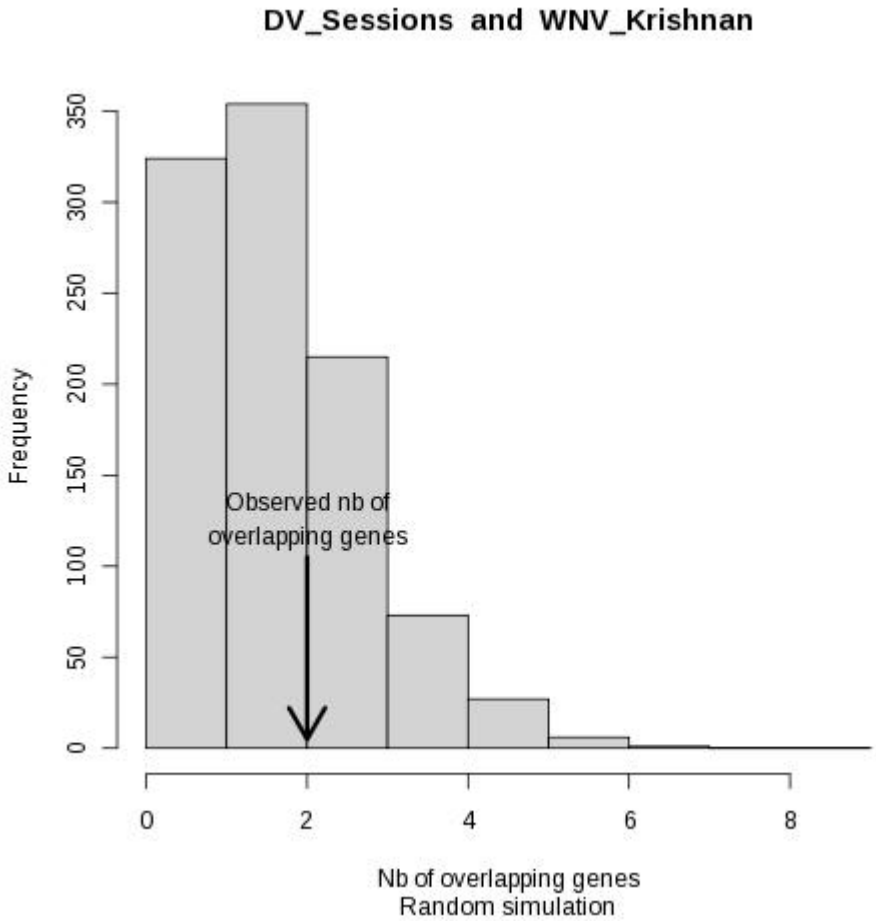
69. HCV_Li vs. WNV_Krishnan

HCV_Li: 19470 genes tested, 262 genes identified
WNV_Krishnan: 21121 genes tested, 305 genes identified
Number of overlapping genes: 7
List of overlapping genes: IRF3, BCKDHA, USP11, NOP56, RBM22, ZNF608, RPS6KL1
Number of simulations showing 7 or more overlapping genes: 75/1000
P-value: 0,075
Random distribution:



70. DV_Sessions vs. WNV_Krishnan

DV_Sessions: 10278 genes tested, 81 genes identified
WNV_Krishnan: 21121 genes tested, 305 genes identified
Number of overlapping genes: 2
List of overlapping genes: ATP6V0B, ATP6V0D1
Number of simulations showing 2 or more overlapping genes: 322/1000
P-value: 0,322
Random distribution:



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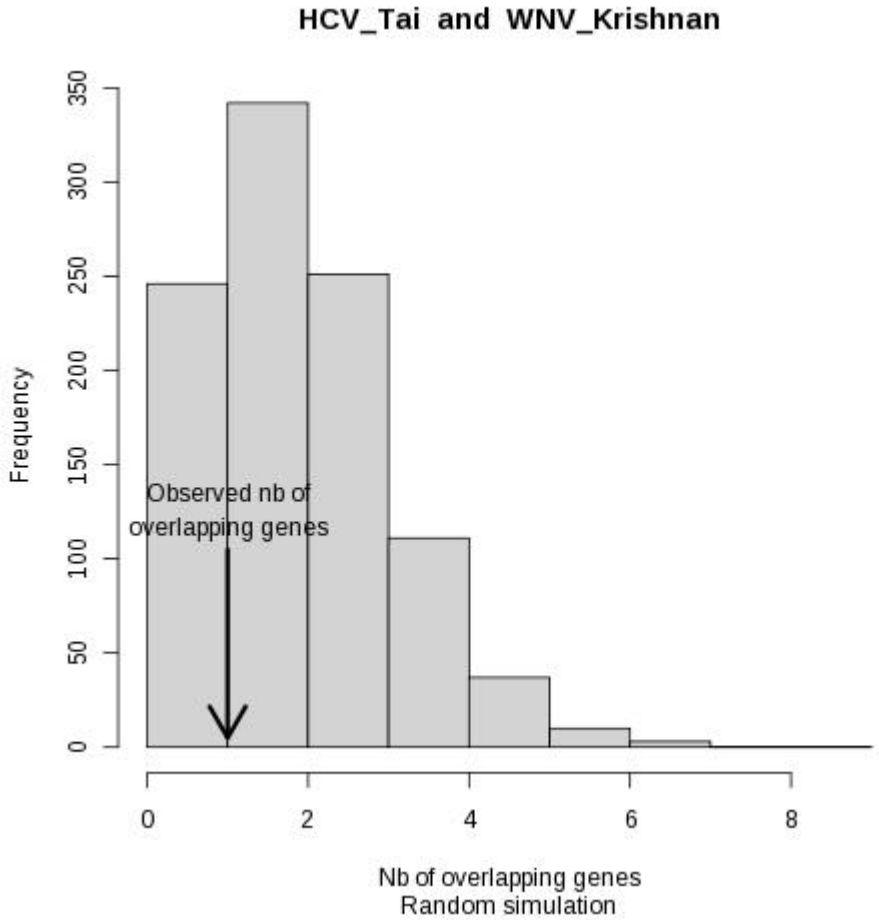
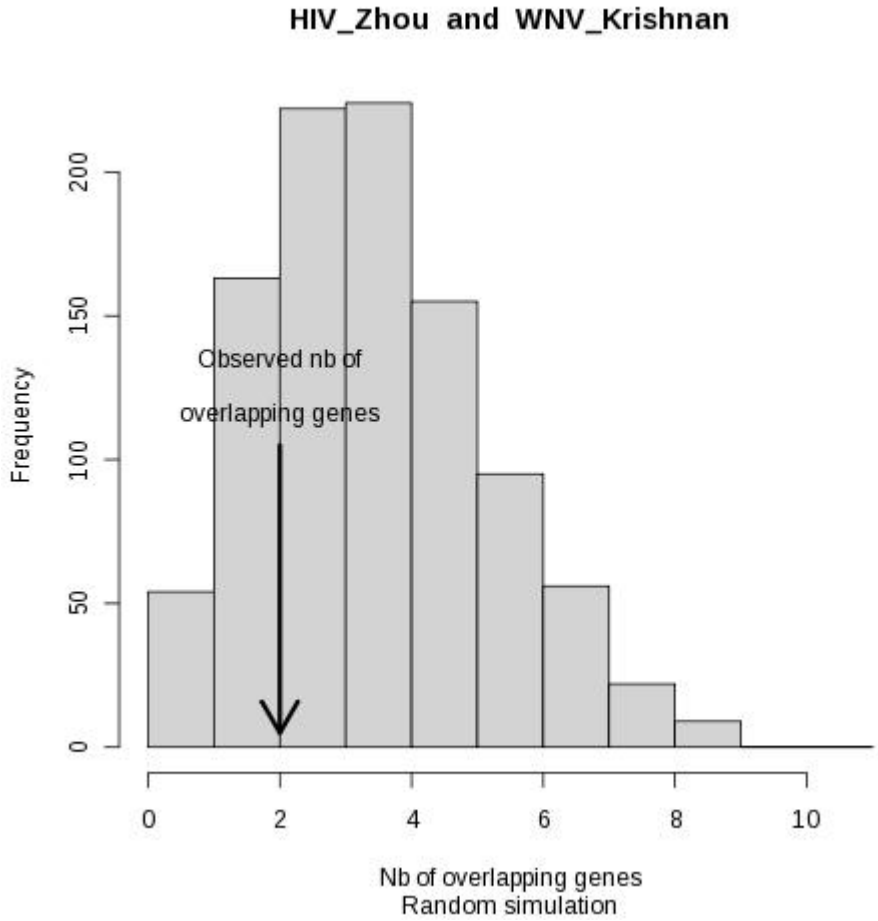
71. HCV_Tai vs. WNV_Krishnan

HCV_Tai: 21094 genes tested, 95 genes identified
WNV_Krishnan: 21121 genes tested, 305 genes identified
Number of overlapping genes: 1
List of overlapping genes: IL4I1
Number of simulations showing 1 or more overlapping genes: 754/1000
P-value: 0,754
Random distribution:



72. HIV_Zhou vs. WNV_Krishnan

HIV_Zhou: 20000 genes tested, 206 genes identified
WNV_Krishnan: 21121 genes tested, 305 genes identified
Number of overlapping genes: 2
List of overlapping genes: SEC61G, KIF17
Number of simulations showing 2 or more overlapping genes: 783/1000
P-value: 0,783
Random distribution:



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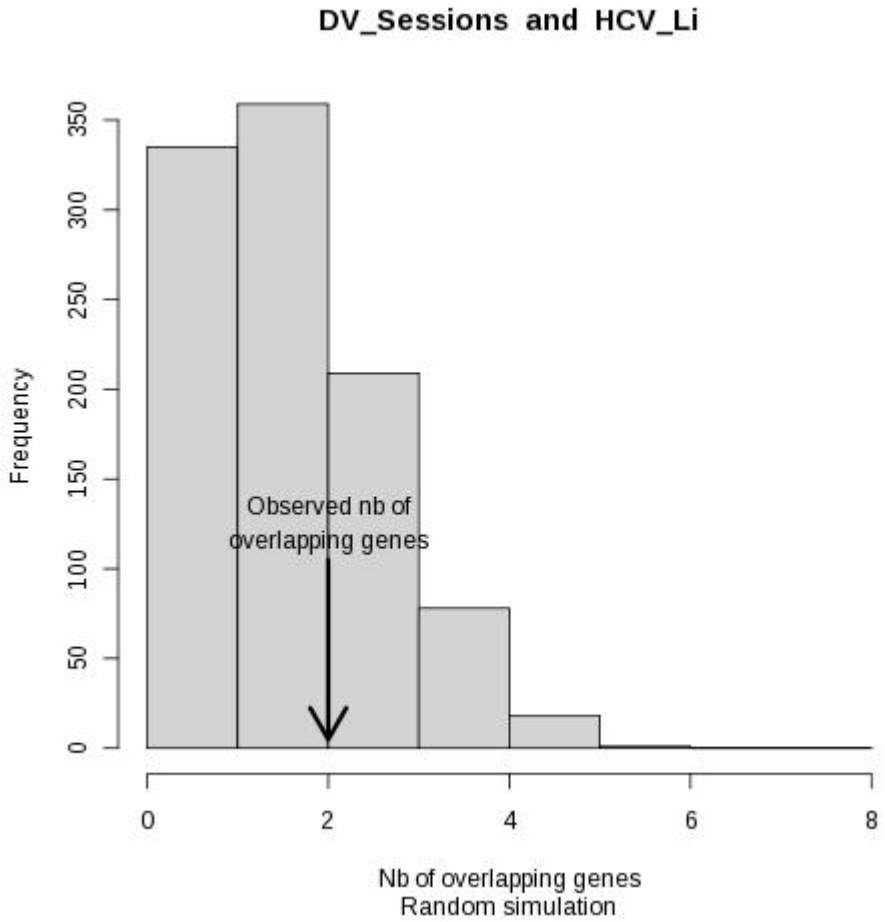
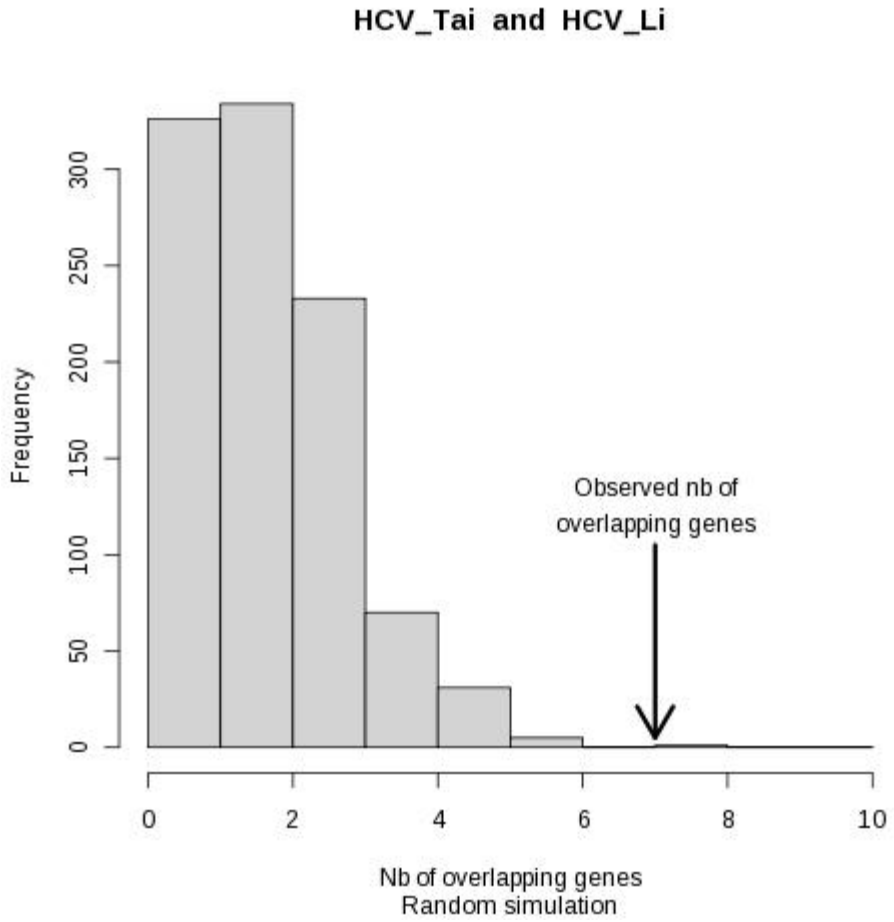
73. DV_Sessions vs. HCV_Li

DV_Sessions: 10278 genes tested, 81 genes identified
HCV_Li: 19470 genes tested, 262 genes identified
Number of overlapping genes: 2
List of overlapping genes: DOCK3, CNOT2
Number of simulations showing 2 or more overlapping genes: 306/1000
P-value: 0,306
Random distribution:



74. HCV_Tai vs. HCV_Li

HCV_Tai: 21094 genes tested, 95 genes identified
HCV_Li: 19470 genes tested, 262 genes identified
Number of overlapping genes: 7
List of overlapping genes: ITGA7, PI4KA, CTSF, RABEPK, NOP58, TRIM62, NUAK2
Number of simulations showing 7 or more overlapping genes: 1/1000
P-value: 0,001
Random distribution:



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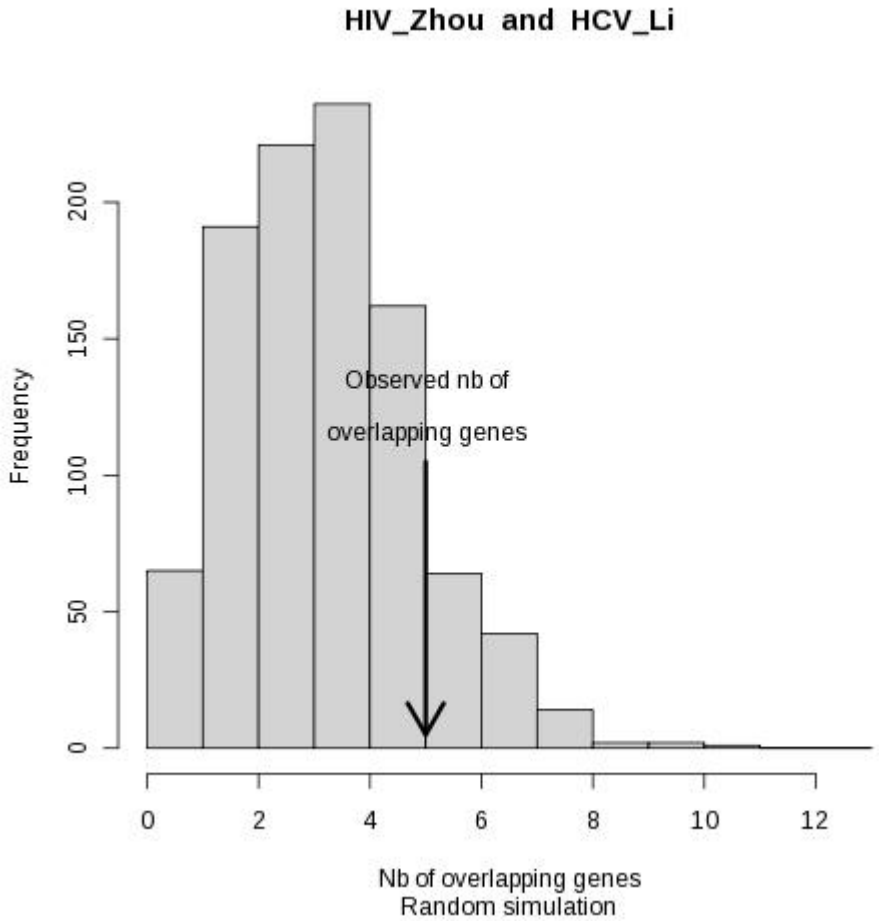
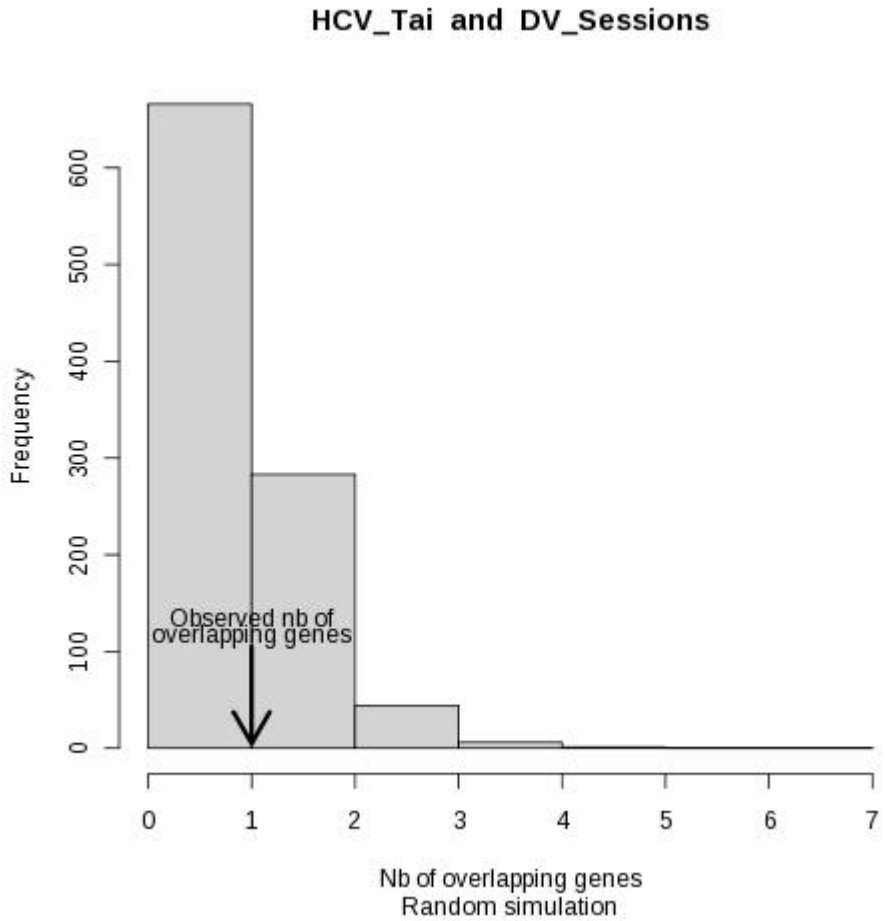
75. HIV_Zhou vs. HCV_Li

HIV_Zhou: 20000 genes tested, 206 genes identified
HCV_Li: 19470 genes tested, 262 genes identified
Number of overlapping genes: 5
List of overlapping genes: DDX3X, PI4KA, PTH1R, TECR, PELI1
Number of simulations showing 5 or more overlapping genes: 125/1000
P-value: 0,125
Random distribution:



76. HCV_Tai vs. DV_Sessions

HCV_Tai: 21094 genes tested, 95 genes identified
DV_Sessions: 10278 genes tested, 81 genes identified
Number of overlapping genes: 1
List of overlapping genes: CBX1
Number of simulations showing 1 or more overlapping genes: 334/1000
P-value: 0,334
Random distribution:



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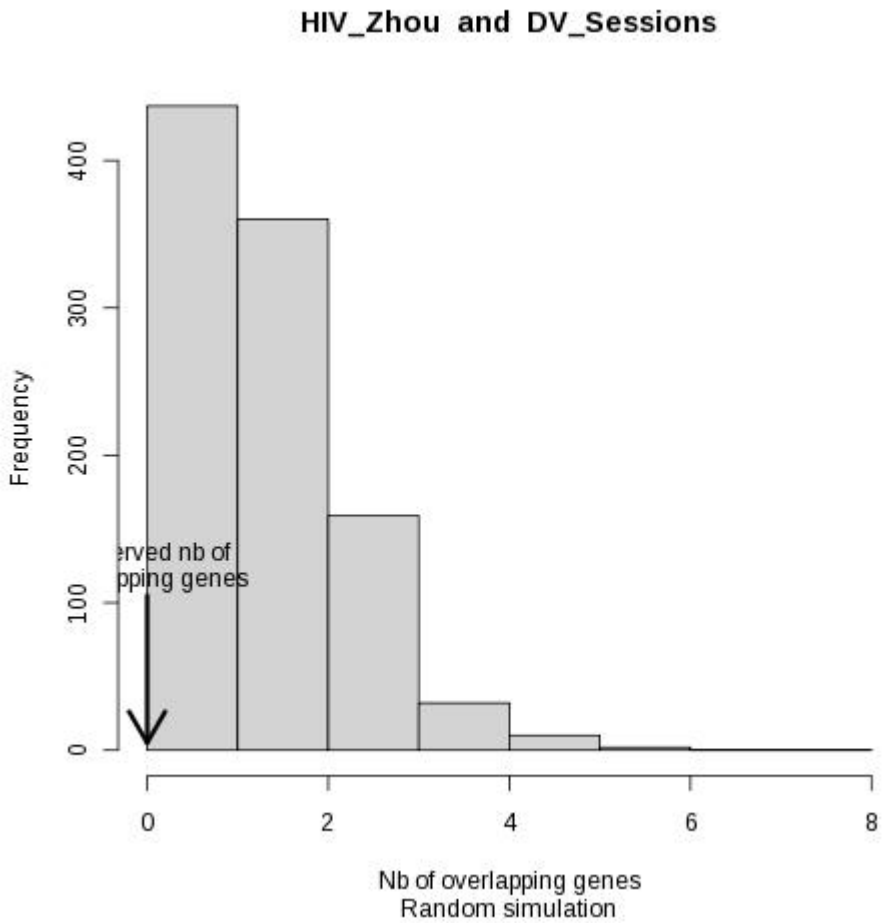
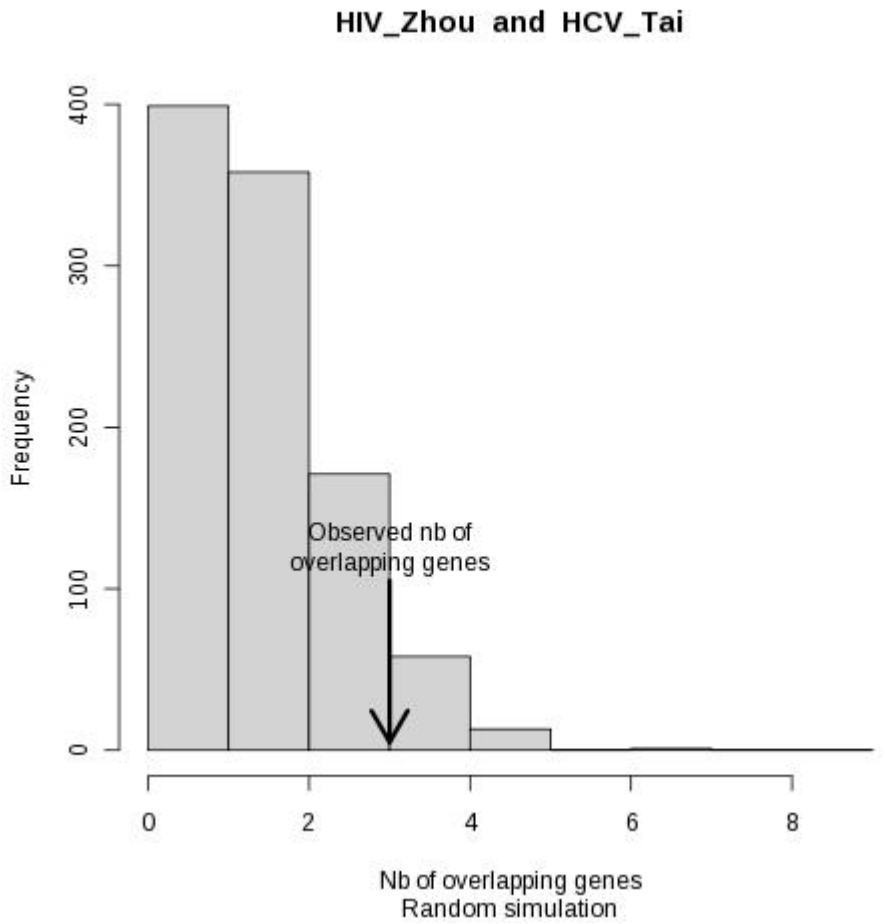
77. HIV_Zhou vs. DV_Sessions

HIV_Zhou: 20000 genes tested, 206 genes identified
DV_Sessions: 10278 genes tested, 81 genes identified
Number of overlapping genes: 0
List of overlapping genes: none
Number of simulations showing 0 or more overlapping genes: 1000/1000
P-value: 1
Random distribution:



78. HIV_Zhou vs. HCV_Tai

HIV_Zhou: 20000 genes tested, 206 genes identified
HCV_Tai: 21094 genes tested, 95 genes identified
Number of overlapping genes: 3
List of overlapping genes: PI4KA, MAP3K14, THAP11
Number of simulations showing 3 or more overlapping genes: 72/1000
P-value: 0,072
Random distribution:



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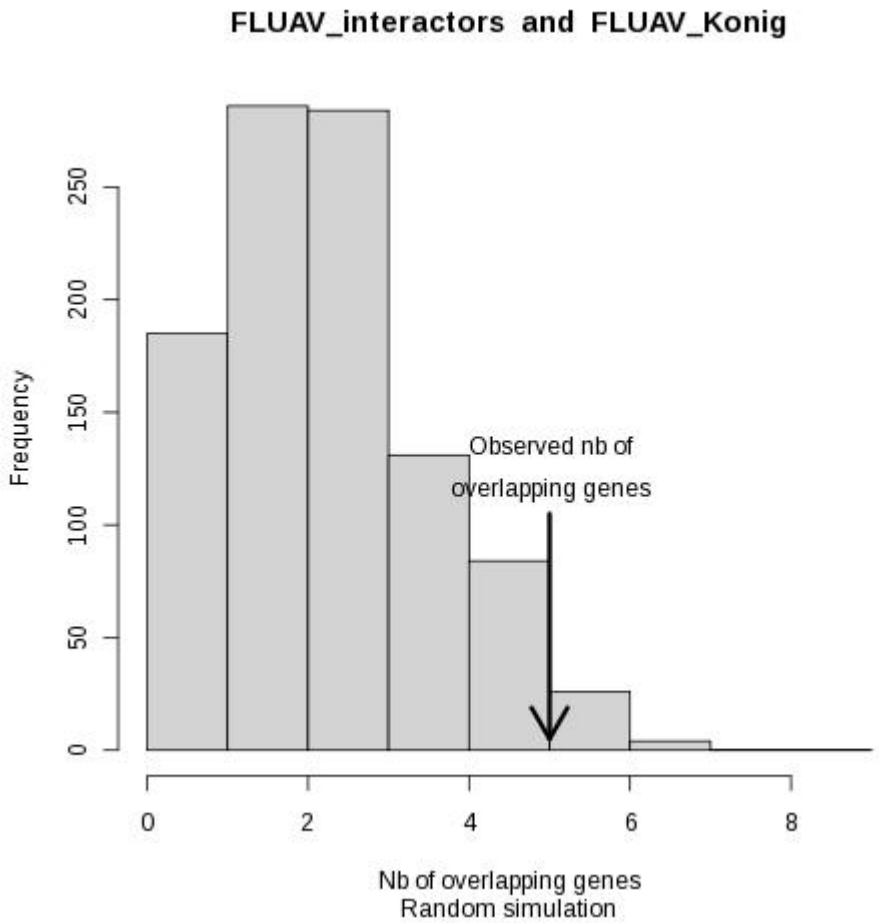
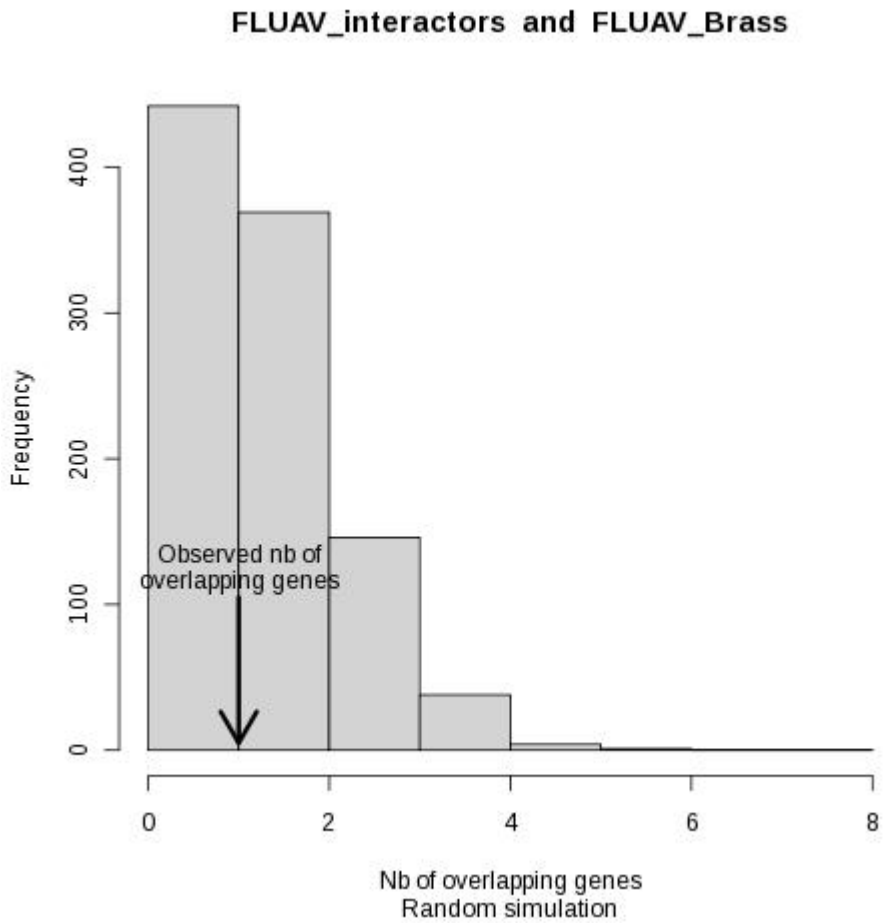
79. FLUAV_interactors vs. FLUAV_Konig

FLUAV_interactors: 25157 genes tested, 145 genes identified
FLUAV_Konig: 19628 genes tested, 295 genes identified
Number of overlapping genes: 5
List of overlapping genes: HSP90AA1, EIF2AK2, STX5, SUMO1, PTPMT1
Number of simulations showing 5 or more overlapping genes: 30/1000
P-value: 0,030
Random distribution:



80. FLUAV_interactors vs. FLUAV_Brass

FLUAV_interactors: 25157 genes tested, 145 genes identified
FLUAV_Brass: 17877 genes tested, 133 genes identified
Number of overlapping genes: 1
List of overlapping genes: NXF1
Number of simulations showing 1 or more overlapping genes: 558/1000
P-value: 0,558
Random distribution:



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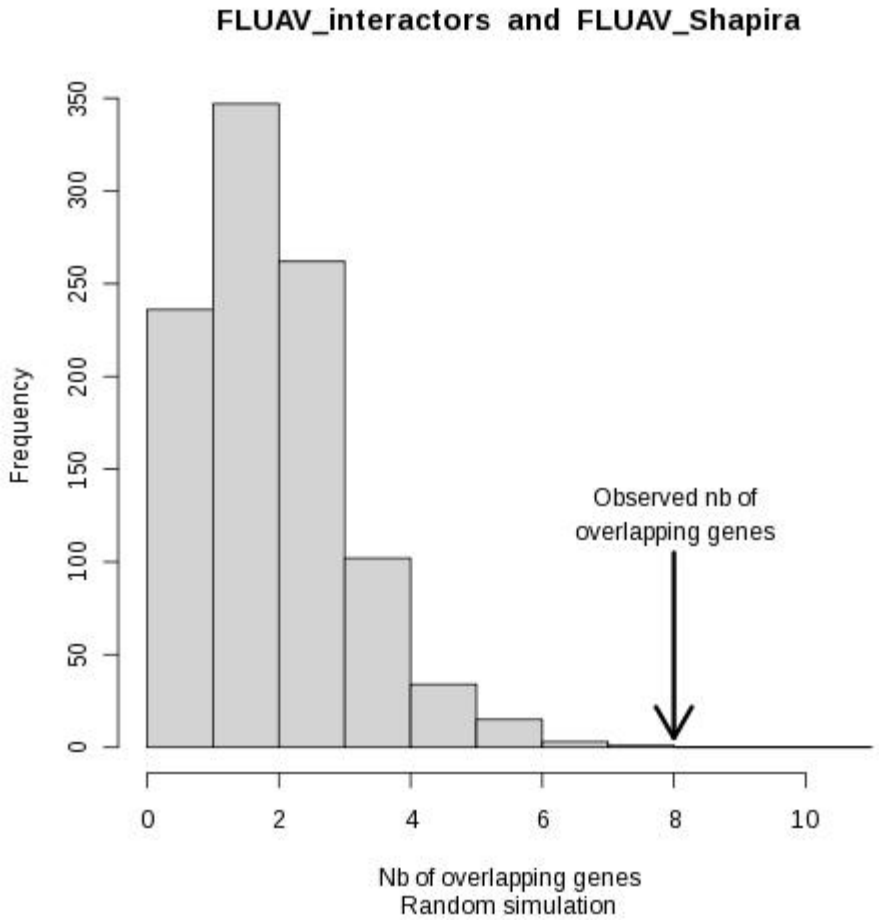
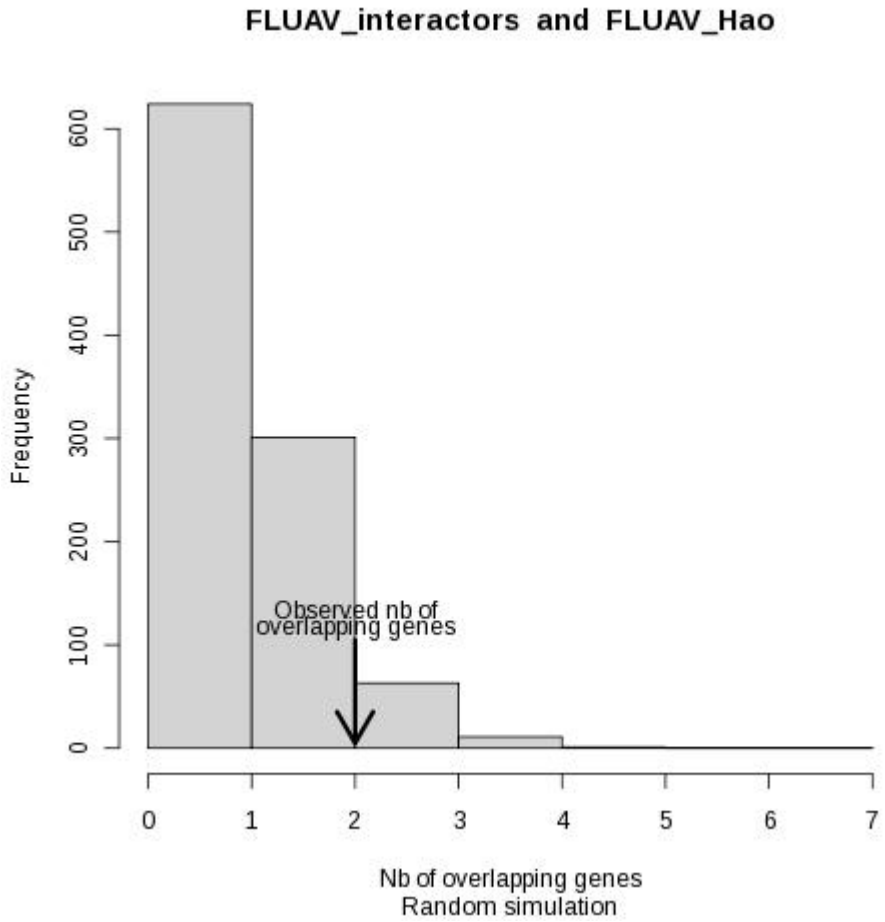
81. FLUAV_interactors vs. FLUAV_Shapira

FLUAV_interactors: 25157 genes tested, 145 genes identified
FLUAV_Shapira: 1745 genes tested, 242 genes identified
Number of overlapping genes: 8
List of overlapping genes: PIK3R2, TRIM27, NXF1, ZMAT4, LZTS2, HLA-B, TTC12, USHBP1
Number of simulations showing 8 or more overlapping genes: 0/1000
P-value: < 0,001
Random distribution:



82. FLUAV_interactors vs. FLUAV_Hao

FLUAV_interactors: 25157 genes tested, 145 genes identified
FLUAV_Hao: 10278 genes tested, 78 genes identified
Number of overlapping genes: 2
List of overlapping genes: HSPA8, NXF1
Number of simulations showing 2 or more overlapping genes: 75/1000
P-value: 0,075
Random distribution:



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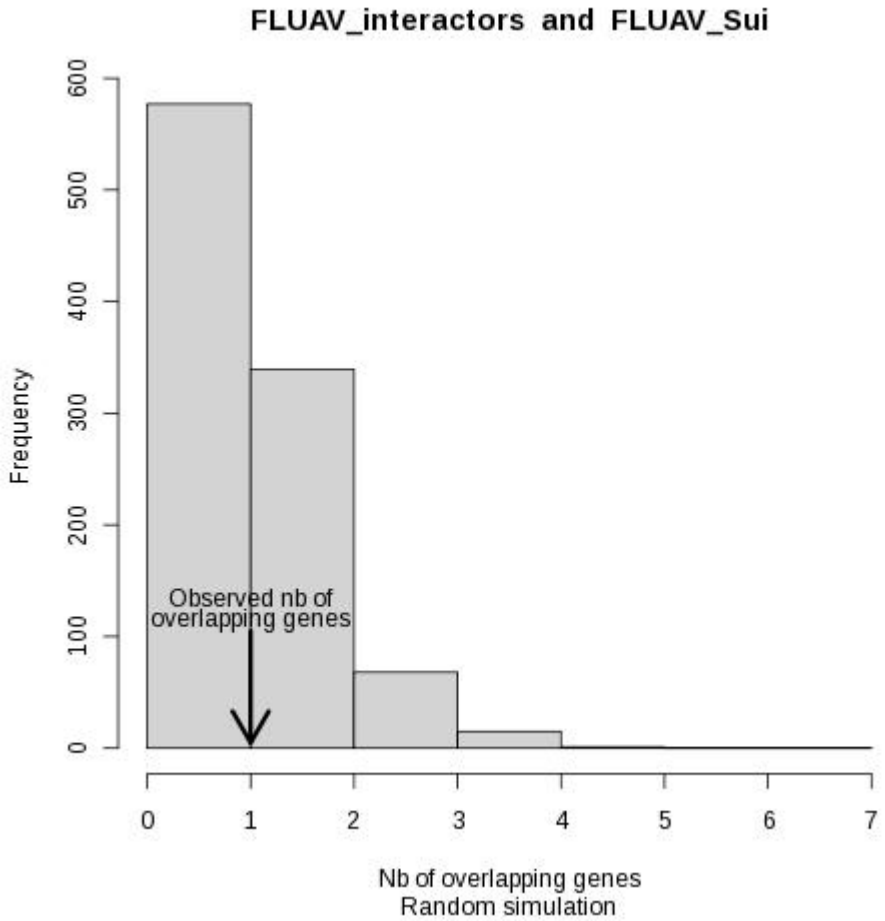
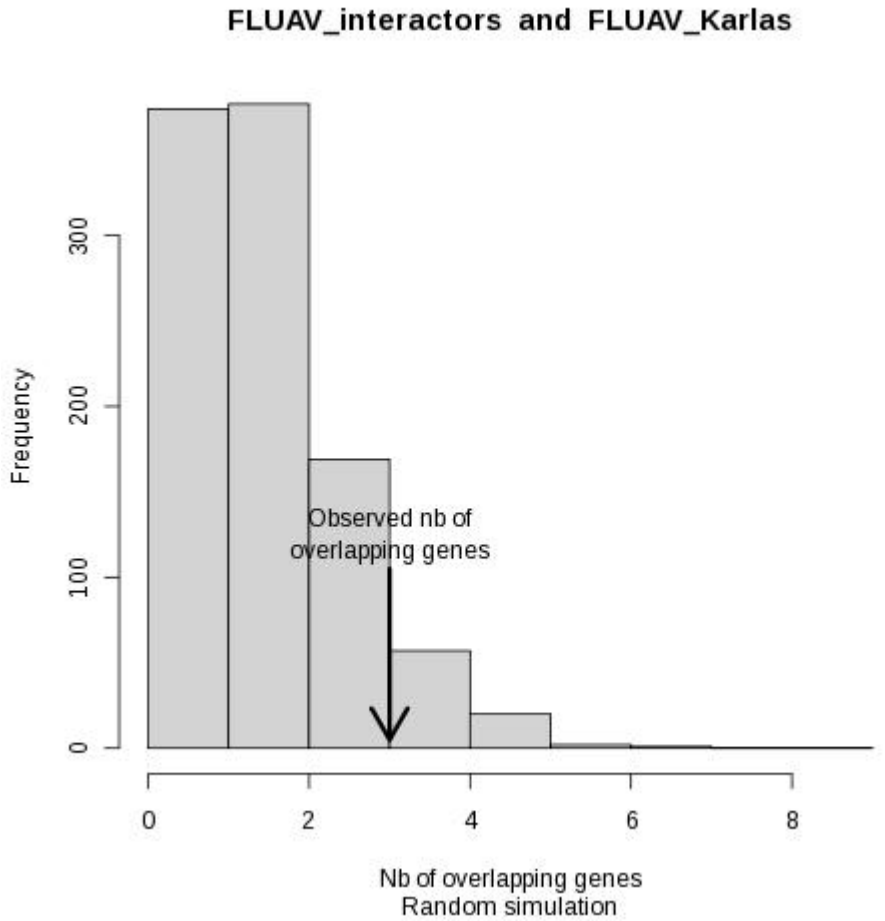
83. FLUAV_interactors vs. FLUAV_Sui

FLUAV_interactors: 25157 genes tested, 145 genes identified
FLUAV_Sui: 25157 genes tested, 99 genes identified
Number of overlapping genes: 1
List of overlapping genes: DDX58
Number of simulations showing 1 or more overlapping genes: 423/1000
P-value: 0,423
Random distribution:



84. FLUAV_interactors vs. FLUAV_Karlas

FLUAV_interactors: 25157 genes tested, 145 genes identified
FLUAV_Karlas: 22843 genes tested, 168 genes identified
Number of overlapping genes: 3
List of overlapping genes: XPO1, ISG15, NXF1
Number of simulations showing 3 or more overlapping genes: 80/1000
P-value: 0,080
Random distribution:



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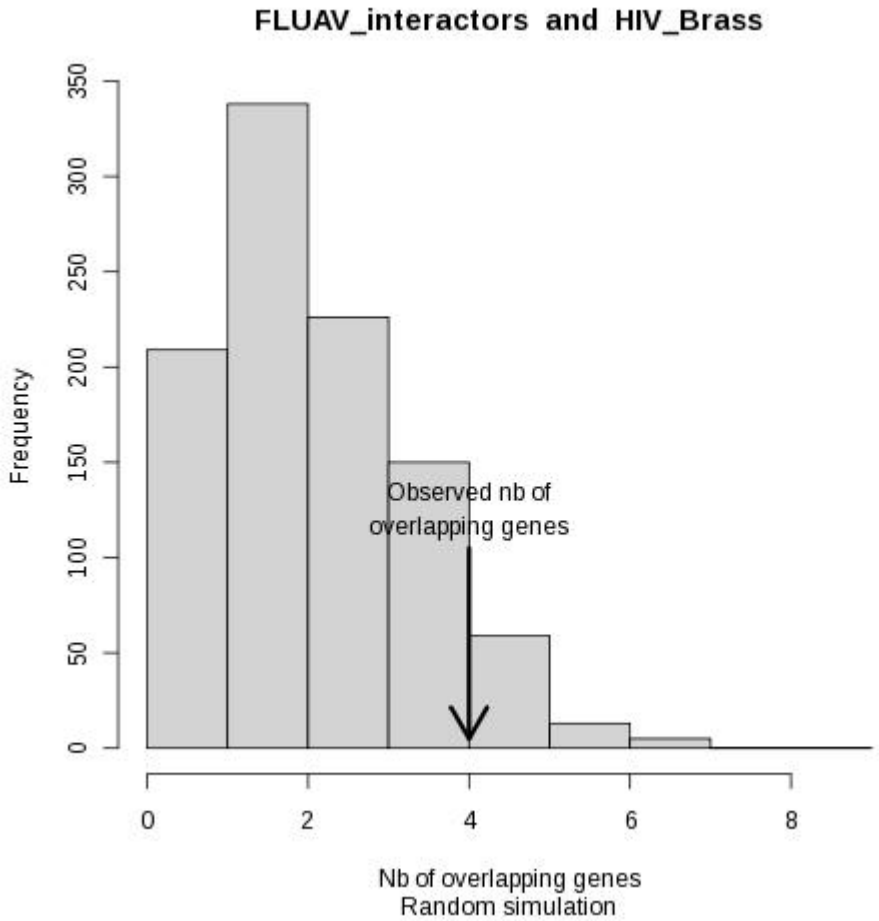
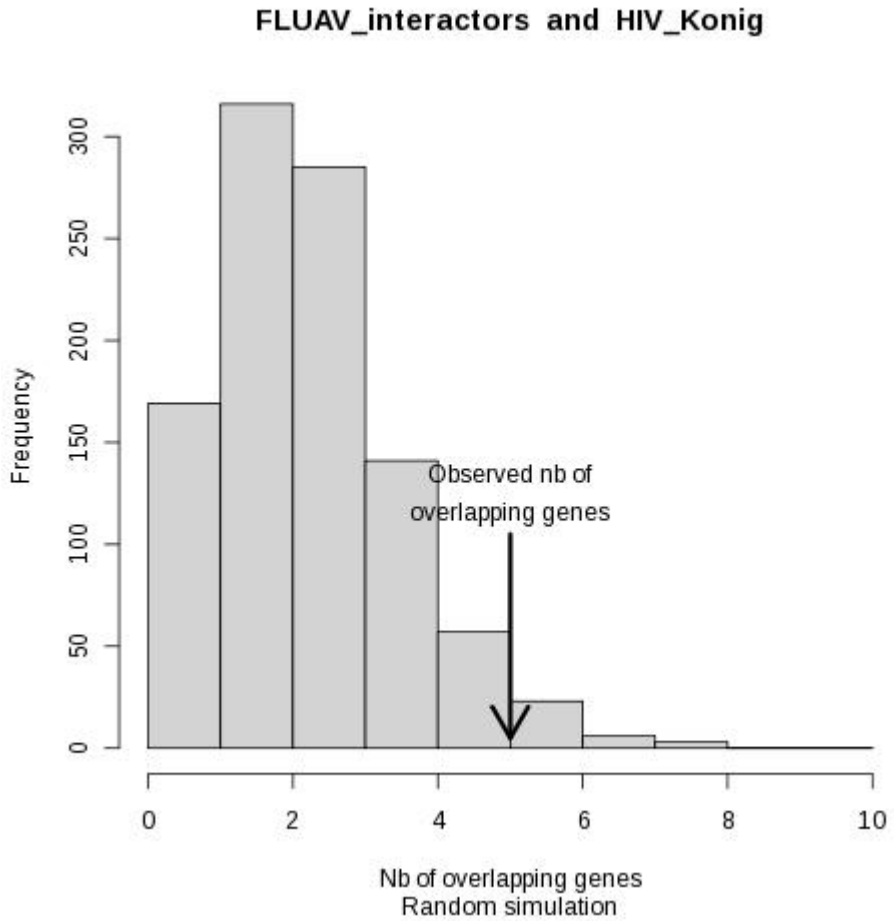
85. FLUAV_interactors vs. HIV_Brass

FLUAV_interactors: 25157 genes tested, 145 genes identified
HIV_Brass: 21121 genes tested, 280 genes identified
Number of overlapping genes: 4
List of overlapping genes: HNRNPF, STX5, HTATSF1, LNX2
Number of simulations showing 4 or more overlapping genes: 77/1000
P-value: 0,077
Random distribution:



86. FLUAV_interactors vs. HIV_Konig

FLUAV_interactors: 25157 genes tested, 145 genes identified
HIV_Konig: 19628 genes tested, 295 genes identified
Number of overlapping genes: 5
List of overlapping genes: CRYAB, DNM2, POLR2A, NXF1, CALCOCO1
Number of simulations showing 5 or more overlapping genes: 32/1000
P-value: 0,032
Random distribution:



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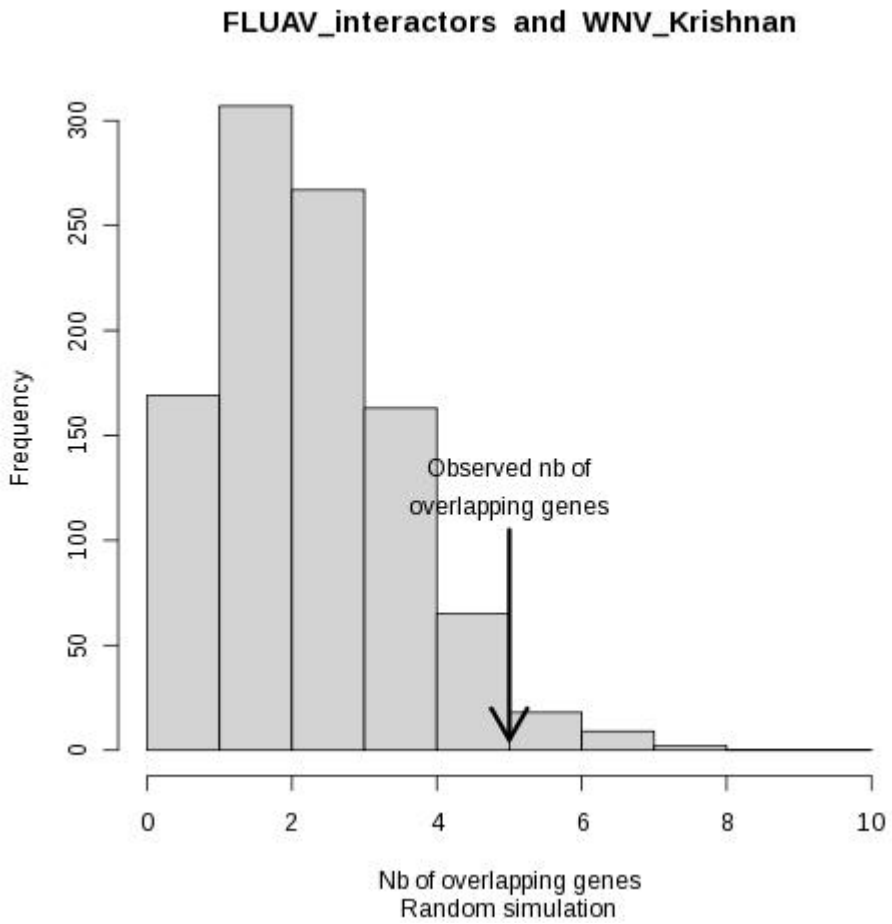
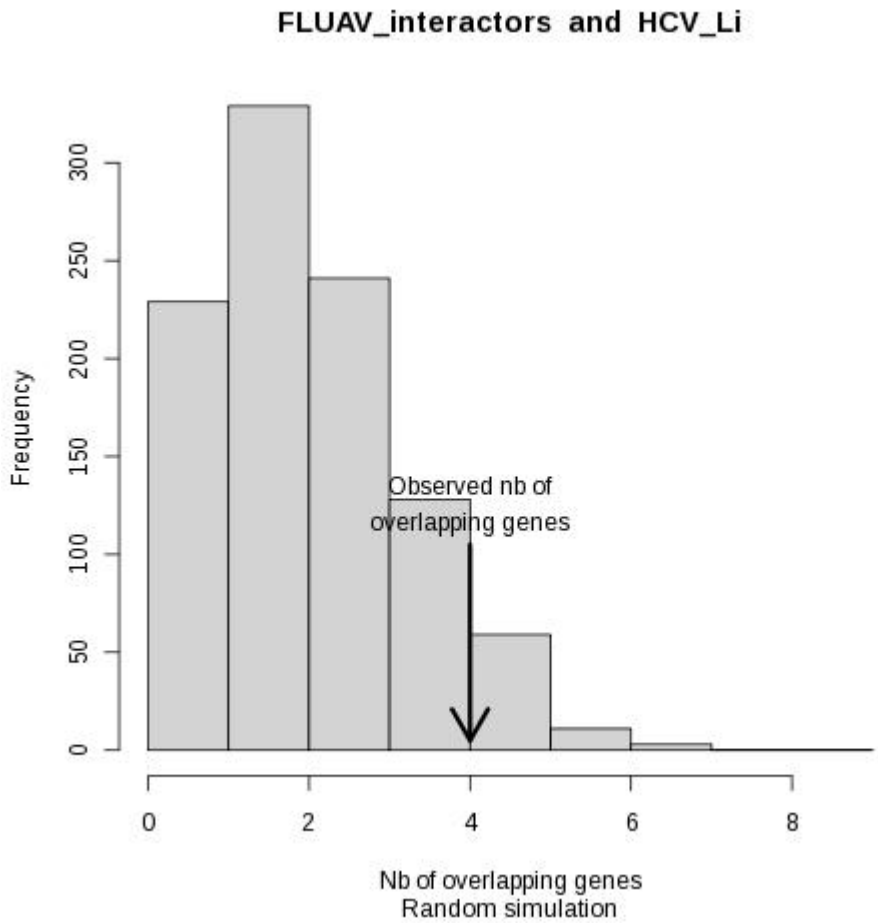
87. FLUAV_interactors vs. WNV_Krishnan

FLUAV_interactors: 25157 genes tested, 145 genes identified
WNV_Krishnan: 21121 genes tested, 305 genes identified
Number of overlapping genes: 5
List of overlapping genes: ABLIM1, SP100, UBE2I, RBPMS, GMCL1
Number of simulations showing 5 or more overlapping genes: 29/1000
P-value: 0,029
Random distribution:



88. FLUAV_interactors vs. HCV_Li

FLUAV_interactors: 25157 genes tested, 145 genes identified
HCV_Li: 19470 genes tested, 262 genes identified
Number of overlapping genes: 4
List of overlapping genes: MCM2, PPIA, GNB2L1, ZNF346
Number of simulations showing 4 or more overlapping genes: 73/1000
P-value: 0,073
Random distribution:



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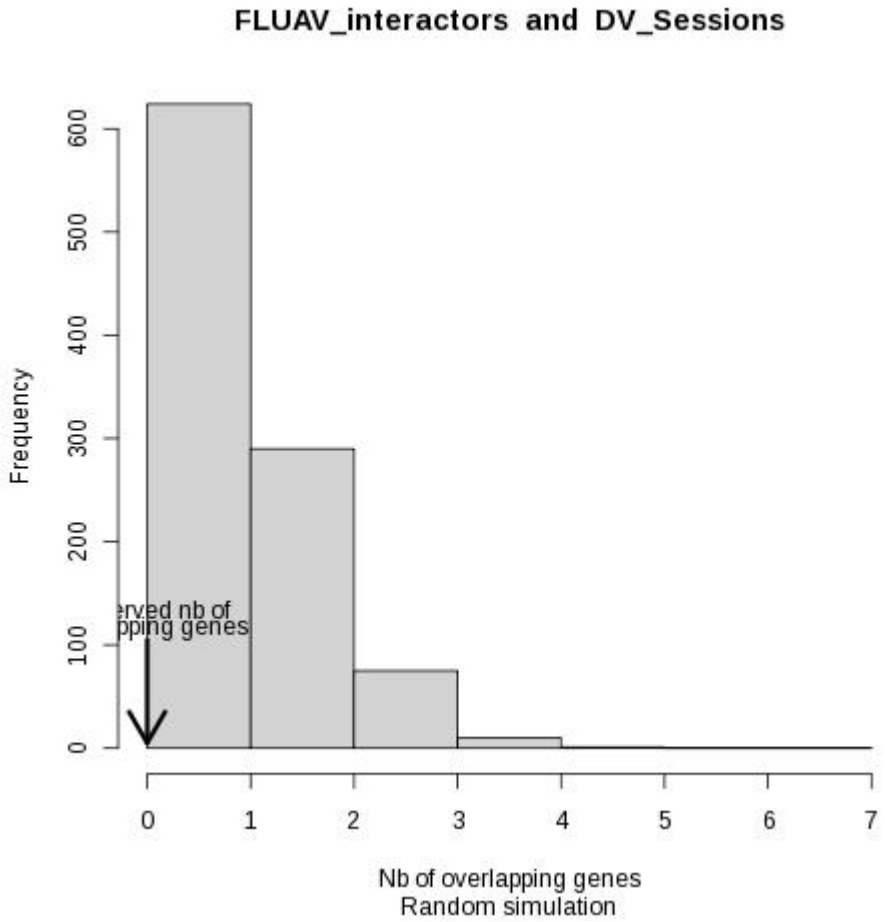
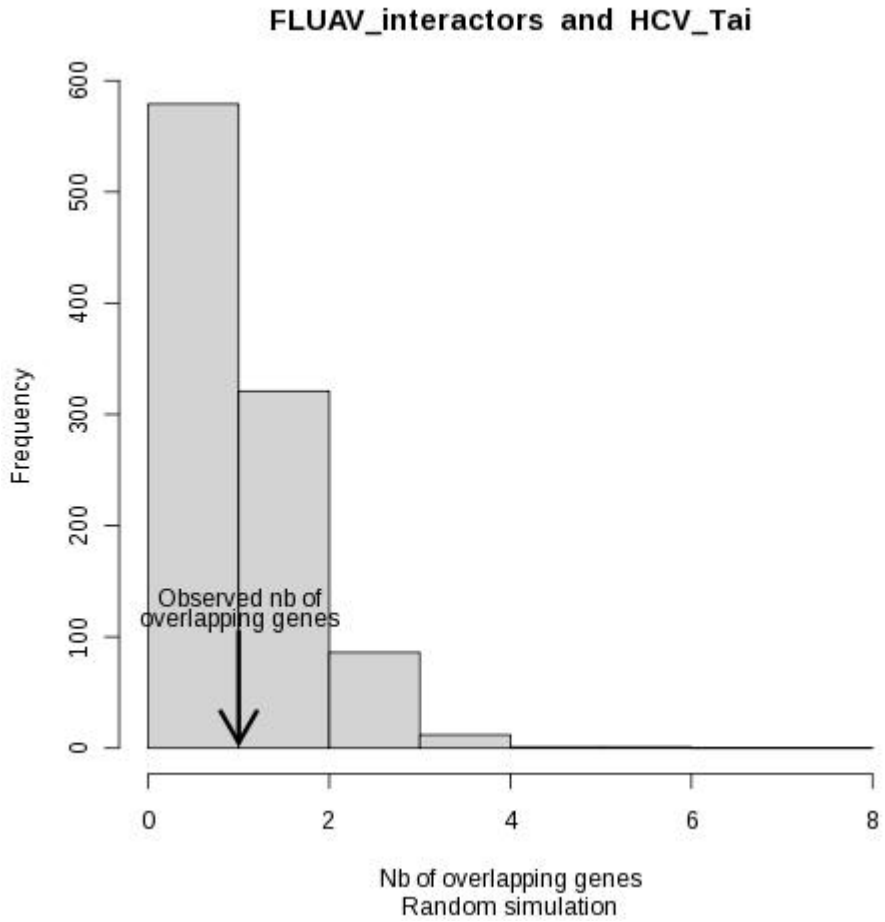
89. FLUAV_interactors vs. DV_Sessions

FLUAV_interactors: 25157 genes tested, 145 genes identified
DV_Sessions: 10278 genes tested, 81 genes identified
Number of overlapping genes: 0
List of overlapping genes: none
Number of simulations showing 0 or more overlapping genes: 1000/1000
P-value: 1
Random distribution:



90. FLUAV_interactors vs. HCV_Tai

FLUAV_interactors: 25157 genes tested, 145 genes identified
HCV_Tai: 21094 genes tested, 95 genes identified
Number of overlapping genes: 1
List of overlapping genes: CDC42
Number of simulations showing 1 or more overlapping genes: 421/1000
P-value: 0,421
Random distribution:



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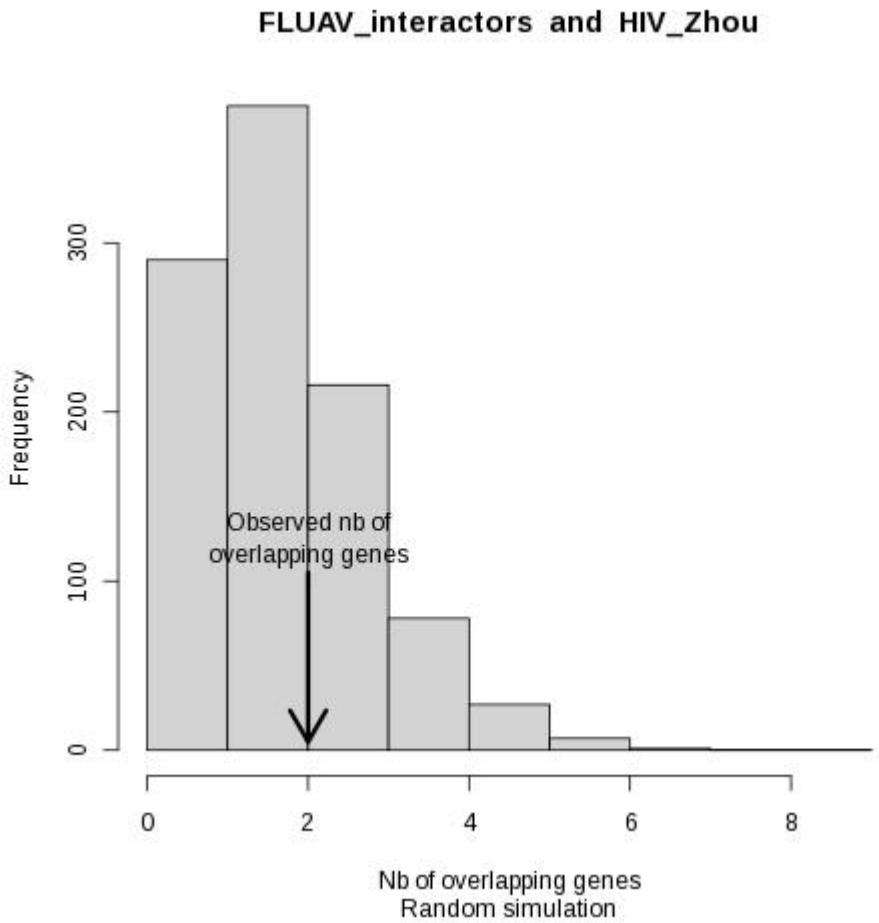
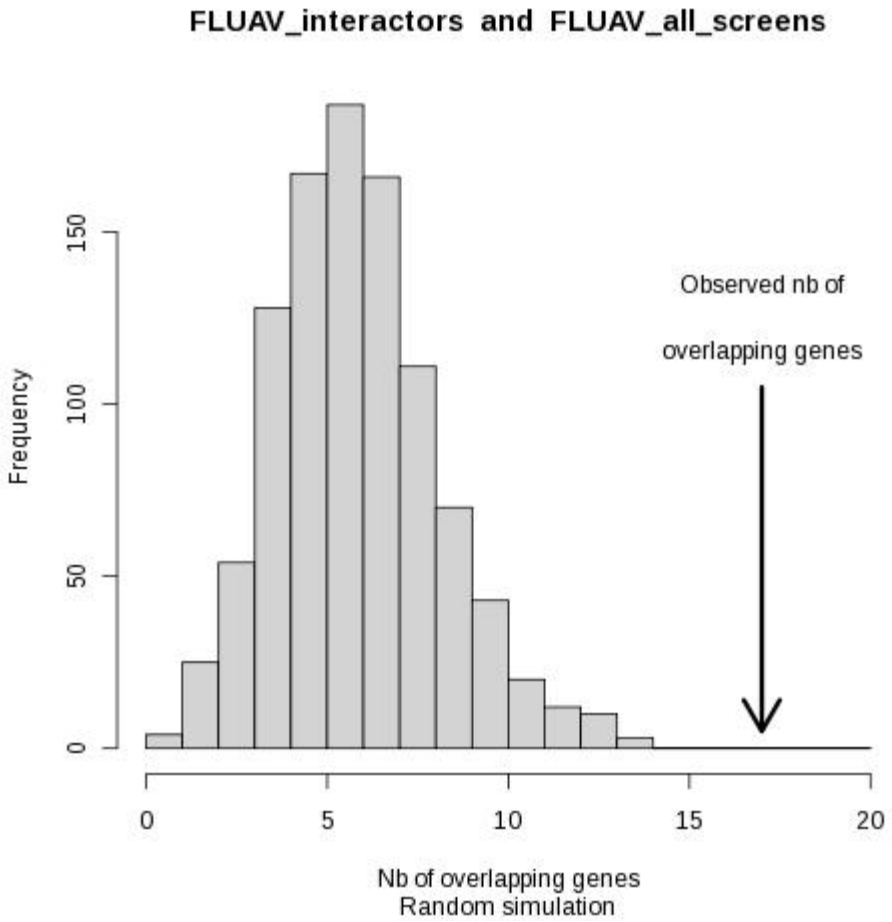
91. FLUAV_interactors vs. HIV_Zhou

FLUAV_interactors: 25157 genes tested, 145 genes identified
HIV_Zhou: 20000 genes tested, 206 genes identified
Number of overlapping genes: 2
List of overlapping genes: GABPB1, XPO1
Number of simulations showing 2 or more overlapping genes: 329/1000
P-value: 0,329
Random distribution:



92. FLUAV_interactors vs. FLUAV_all_screens

FLUAV_interactors: 25157 genes tested, 145 genes identified
FLUAV_all_screens: 25157 genes tested, 925 genes identified
Number of overlapping genes: 17
List of overlapping genes: HLA-B, HSPA8, HSP90AA1, PIK3R2, EIF2AK2, TRIM27, STX5, SUMO1, XPO1, ISG15, NXF1, DDX58, TTC12, ZMAT4, USHBP1, LZTS2, PTPMT1
Number of simulations showing 17 or more overlapping genes: 0/1000
P-value: < 0,001
Random distribution:



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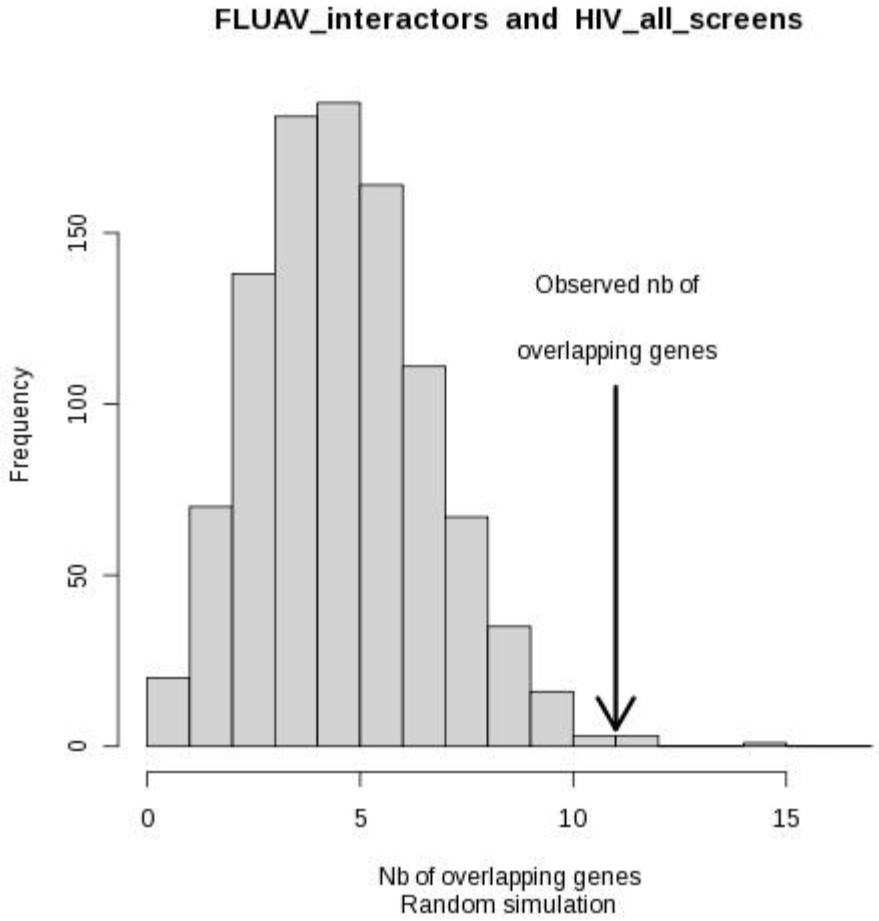
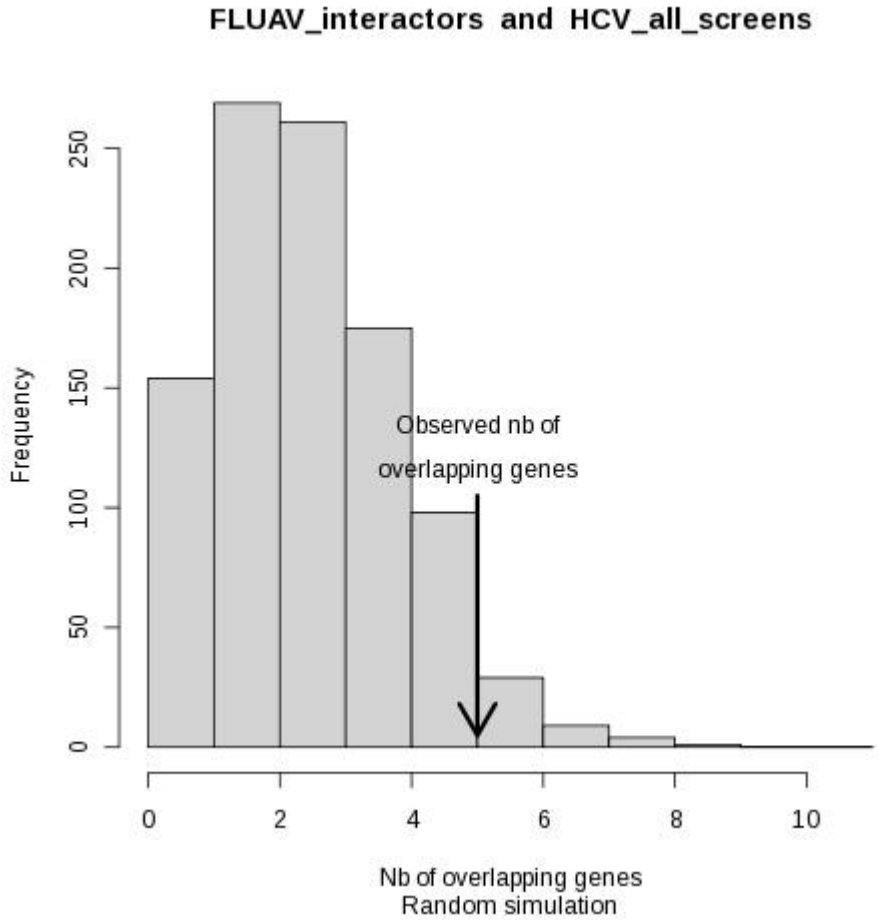
93. FLUAV_interactors vs. HIV_all_screens

FLUAV_interactors: 25157 genes tested, 145 genes identified
HIV_all_screens: 25157 genes tested, 719 genes identified
Number of overlapping genes: 11
List of overlapping genes: CRYAB, DNM2, GABPB1, HNRNPF, POLR2A, STX5, XPO1, NXF1, HTATSF1, CALCOCO1, LNX2
Number of simulations showing 11 or more overlapping genes: 4/1000
P-value: 0,004
Random distribution:



94. FLUAV_interactors vs. HCV_all_screens

FLUAV_interactors: 25157 genes tested, 145 genes identified
HCV_all_screens: 25157 genes tested, 344 genes identified
Number of overlapping genes: 5
List of overlapping genes: CDC42, MCM2, PPIA, GNB2L1, ZNF346
Number of simulations showing 5 or more overlapping genes: 43/1000
P-value: 0,043
Random distribution:



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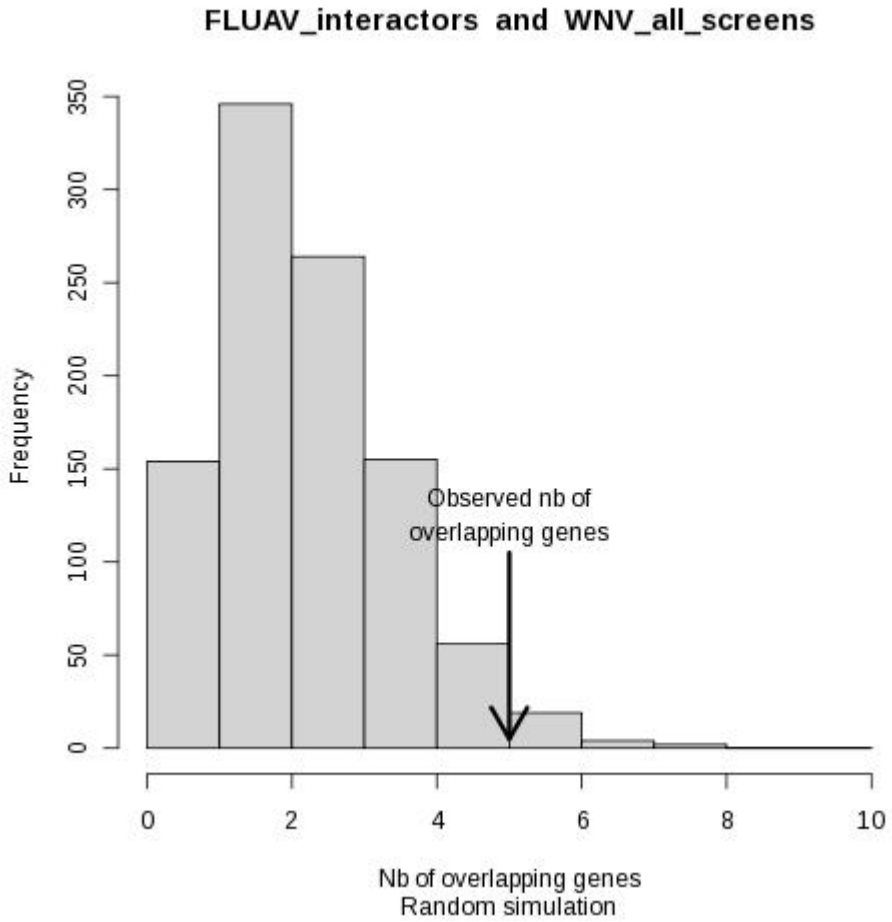
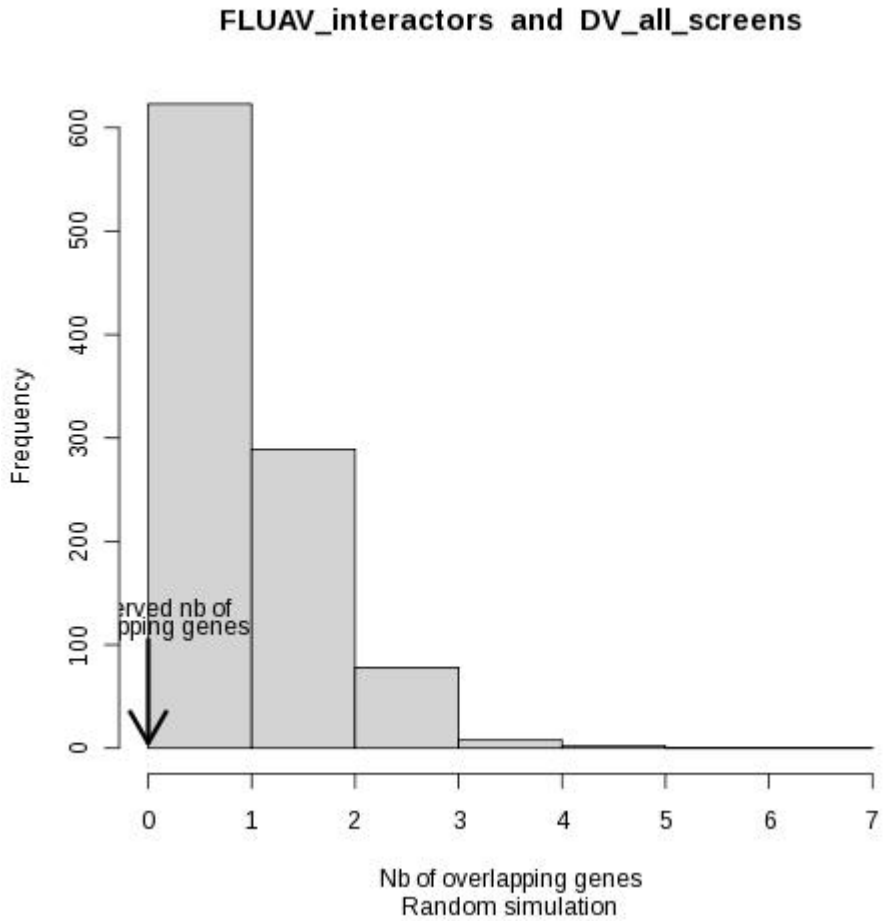
95. FLUAV_interactors vs. WNV_all_screens

FLUAV_interactors: 25157 genes tested, 145 genes identified
WNV_all_screens: 21121 genes tested, 291 genes identified
Number of overlapping genes: 5
List of overlapping genes: ABLIM1, SP100, UBE2I, RBPMS, GMCL1
Number of simulations showing 5 or more overlapping genes: 25/1000
P-value: 0,025
Random distribution:



96. FLUAV_interactors vs. DV_all_screens

FLUAV_interactors: 25157 genes tested, 145 genes identified
DV_all_screens: 10278 genes tested, 80 genes identified
Number of overlapping genes: 0
List of overlapping genes: none
Number of simulations showing 0 or more overlapping genes: 1000/1000
P-value: 1
Random distribution: