**Table Analyzed: Copy of number of punctiform structures**

| | |
|---|---|
| Column B vs. Column A | lgg-1(tm3489) vs, ctrl |
| Mann Whitney test | |
| P value | <0,0001 |
| Exact or approximate P value? | Exact |
| P value summary | **** |
| Significantly different (P < 0.05)? | Yes |
| One- or two-tailed P value? | Two-tailed |
| Sum of ranks in column A,B | 99 , 604 |
| Mann-Whitney U | 8 |

**Table Analyzed: Copy of number of punctiform structures**

| | |
|---|---|
| Column C vs. Column A | lgg-1(G116A) vs, ctrl |
| Mann Whitney test | |
| P value | 0,0060 |
| Exact or approximate P value? | Exact |
| P value summary | ** |
| Significantly different (P < 0.05)? | Yes |
| One- or two-tailed P value? | Two-tailed |
| Sum of ranks in column A,C | 199 , 77 |
| Mann-Whitney U | 22 |

**Table Analyzed: Copy of number of punctiform structures**

| | |
|---|---|
| Column D vs. Column A | lgg-1(G116AG117*) vs, ctrl |
| Mann Whitney test | |
| P value | <0,0001 |
| Exact or approximate P value? | Exact |
| P value summary | **** |
| Significantly different (P < 0.05)? | Yes |
| One- or two-tailed P value? | Two-tailed |
| Sum of ranks in column A,D | 91 , 287 |
| Mann-Whitney U | 0 |

**Table Analyzed: Copy of number of punctiform structures**

| | |
|---|---|
| Column E vs. Column A | RNAi unc-51 vs, ctrl |
| Mann Whitney test | |
| P value | <0,0001 |
| Exact or approximate P value? | Exact |
| P value summary | **** |
| Significantly different (P < 0.05)? | Yes |
| One- or two-tailed P value? | Two-tailed |
| Sum of ranks in column A,E | 420,5 , 440,5 |
| Mann-Whitney U | 34,50 |

**Table Analyzed: Copy of number of punctiform structures**

| | |
|---|---|
| Column F vs. Column B | lgg-1(tm3489) RNAI unc-51 vs, lgg-1(tm3489) |
| Mann Whitney test | |
| P value | <0,0001 |
| Exact or approximate P value? | Exact |
| P value summary | **** |
| Significantly different (P < 0.05)? | Yes |
| One- or two-tailed P value? | Two-tailed |
| Sum of ranks in column B,F | 1112 , 718 |
| Mann-Whitney U | 52 |

**Table Analyzed: Copy of number of punctiform structures**

| | |
|---|---|
| Column H vs. Column D | lgg-1(G116AG117*) RNAi unc-51 vs, lgg-1(G116AG117*) |
| Mann Whitney test | |
| P value | 0,7623 |
| Exact or approximate P value? | Exact |
| P value summary | ns |
| Significantly different (P < 0.05)? | No |
| One- or two-tailed P value? | Two-tailed |
| Sum of ranks in column D,H | 236 , 359 |
| Mann-Whitney U | 131 |

**Table Analyzed: Copy of number of punctiform structures**

| | |
|---|---|
| Column G vs. Column C | lgg-1(G116A) RNAi unc-51 vs, lgg-1(G116A) |
| Unpaired t test | |
| P value | 0,0011 |
| P value summary | ** |
| Significantly different (P < 0.05)? | Yes |
| One- or two-tailed P value? | Two-tailed |
| t, df | t=3,571, df=35 |

**Table Analyzed: Copy of number of punctiform structures**

| | |
|---|---|
| Column F vs. Column E | lgg-1(tm3489) RNAi unc-51 vs, RNAi unc-51 |
| Mann Whitney test | |
| P value | 0,1939 |
| Exact or approximate P value? | Exact |
| P value summary | ns |
| Significantly different (P < 0.05)? | No |
| One- or two-tailed P value? | Two-tailed |
| Sum of ranks in column E,F | 1007 , 1074 |
| Mann-Whitney U | 407,5 |

| Table Analyzed | Copy of number of punctiform structures | Table Analyzed | Copy of number of punctiform structures |
|---|---|---|---|
| | *lgg-1(G116A) RNAi unc-51* | | *lgg-1(G116AG117\*)* |
| Column G | *51* | Column H | *RNAi unc-51* |
| vs. | *vs,* | vs. | *vs,* |
| Column E | *RNAi unc-51* | Column E | *RNAi unc-51* |
| | | | |
| Mann Whitney test | | Mann Whitney test | |
| P value | 0,1722 | P value | <0,0001 |
| Exact or approximate P value? | Exact | Exact or approximate P value? | Exact |
| P value summary | ns | P value summary | **** |
| Significantly different (P < 0.05)? | No | Significantly different (P < 0.05)? | Yes |
| One- or two-tailed P value? | Two-tailed | One- or two-tailed P value? | Two-tailed |
| Sum of ranks in column E,G | 865,5 , 674,5 | Sum of ranks in column E,H | 434 , 742 |
| Mann-Whitney U | 296,5 | Mann-Whitney U | 28 |

| | Number of families | 1 | | | | | |
|---|---|---|---|---|---|---|---|
| | Number of comparisons per family | 28 | | | | | |
| | Alpha | 0,05 | | | | | |

| Dunn's multiple comparisons test | Mean rank diff, | Significant? | Summary | Adjusted P Value | | |
|---|---|---|---|---|---|---|
| ctrl vs. *lgg-1(tm3489)* | -32,01 | No | ns | >0,9999 | A-B |
| ctrl vs. *lgg-1(G116A)* | 25,20 | No | ns | >0,9999 | A-C |
| ctrl vs. *lgg-1(G116AG117\*)* | -44,69 | No | ns | 0,5537 | A-D |
| ctrl vs. *RNAi unc-51* | 43,15 | No | ns | 0,2747 | A-E |
| ctrl vs. lgg-1(tm3489) RNAI unc-51 | 51,97 | Yes | * | 0,0351 | A-F |
| ctrl vs. *lgg-1(G116A) RNAi unc-51* | 55,14 | Yes | * | 0,0290 | A-G |
| ctrl vs. *lgg-1(G116AG117\*) RNAi unc-51* | -39,33 | No | ns | 0,7447 | A-H |
| *lgg-1(tm3489)* vs. *lgg-1(G116A)* | 57,20 | No | ns | 0,0635 | B-C |
| *lgg-1(tm3489)* vs. *lgg-1(G116AG117\*)* | -12,68 | No | ns | >0,9999 | B-D |
| *lgg-1(tm3489)* vs. *RNAi unc-51* | 75,16 | Yes | **** | <0,0001 | B-E |
| *lgg-1(tm3489)* vs. lgg-1(tm3489) RNAI unc-51 | 83,98 | Yes | **** | <0,0001 | B-F |
| *lgg-1(tm3489)* vs. *lgg-1(G116A) RNAi unc-51* | 87,15 | Yes | **** | <0,0001 | B-G |
| *lgg-1(tm3489)* vs. *lgg-1(G116AG117\*) RNAi unc-51* | -7,321 | No | ns | >0,9999 | B-H |
| *lgg-1(G116A)* vs. *lgg-1(G116AG117\*)* | -69,89 | Yes | * | 0,0195 | C-D |
| *lgg-1(G116A)* vs. *RNAi unc-51* | 17,95 | No | ns | >0,9999 | C-E |
| *lgg-1(G116A)* vs. lgg-1(tm3489) RNAI unc-51 | 26,78 | No | ns | >0,9999 | C-F |
| *lgg-1(G116A)* vs. *lgg-1(G116A) RNAi unc-51* | 29,95 | No | ns | >0,9999 | C-G |
| *lgg-1(G116A)* vs. *lgg-1(G116AG117\*) RNAi unc-51* | -64,53 | Yes | * | 0,0229 | C-H |
| *lgg-1(G116AG117\*)* vs. *RNAi unc-51* | 87,84 | Yes | **** | <0,0001 | D-E |
| *lgg-1(G116AG117\*)* vs. lgg-1(tm3489) RNAI unc-51 | 96,66 | Yes | **** | <0,0001 | D-F |
| *lgg-1(G116AG117\*)* vs. *lgg-1(G116A) RNAi unc-51* | 99,83 | Yes | **** | <0,0001 | D-G |
| *lgg-1(G116AG117\*)* vs. *lgg-1(G116AG117\*) RNAi unc-51* | 5,361 | No | ns | >0,9999 | D-H |
| *RNAi unc-51* vs. lgg-1(tm3489) RNAi unc-51 | 8,821 | No | ns | >0,9999 | E-F |
| *RNAi unc-51* vs. *lgg-1(G116A) RNAi unc-51* | 11,99 | No | ns | >0,9999 | E-G |
| *RNAi unc-51* vs. *lgg-1(G116AG117\*) RNAi unc-51* | -82,48 | Yes | **** | <0,0001 | E-H |
| lgg-1(tm3489) RNAi unc-51 vs. *lgg-1(G116A) RNAi unc-51* | 3,171 | No | ns | >0,9999 | F-G |
| lgg-1(tm3489) RNAi unc-51 vs. *lgg-1(G116AG117\*) RNAi unc-51* | -91,30 | Yes | **** | <0,0001 | F-H |
| *lgg-1(G116A) RNAi unc-51* vs. *lgg-1(G116AG117\*) RNAi unc-51* | -94,47 | Yes | **** | <0,0001 | G-H |

| Test details | Mean rank 1 | Mean rank 2 | Mean rank diff, | n1 | n2 | Z |
|---|---|---|---|---|---|---|
| ctrl vs. *lgg-1(tm3489)* | 101,8 | 133,9 | -32,01 | 13 | 24 | 1,867 |
| ctrl vs. *lgg-1(G116A)* | 101,8 | 76,65 | 25,20 | 13 | 10 | 1,203 |
| ctrl vs. *lgg-1(G116AG117\*)* | 101,8 | 146,5 | -44,69 | 13 | 14 | 2,331 |
| ctrl vs. *RNAi unc-51* | 101,8 | 58,70 | 43,15 | 13 | 28 | 2,582 |
| ctrl vs. lgg-1(tm3489) RNAI unc-51 | 101,8 | 49,88 | 51,97 | 13 | 36 | 3,226 |
| ctrl vs. *lgg-1(G116A) RNAi unc-51* | 101,8 | 46,70 | 55,14 | 13 | 27 | 3,281 |
| ctrl vs. *lgg-1(G116AG117\*) RNAi unc-51* | 101,8 | 141,2 | -39,33 | 13 | 20 | 2,217 |
| *lgg-1(tm3489)* vs. *lgg-1(G116A)* | 133,9 | 76,65 | 57,20 | 24 | 10 | 3,053 |
| *lgg-1(tm3489)* vs. *lgg-1(G116AG117\*)* | 133,9 | 146,5 | -12,68 | 24 | 14 | 0,7574 |
| *lgg-1(tm3489)* vs. *RNAi unc-51* | 133,9 | 58,70 | 75,16 | 24 | 28 | 5,427 |
| *lgg-1(tm3489)* vs. lgg-1(tm3489) RNAI unc-51 | 133,9 | 49,88 | 83,98 | 24 | 36 | 6,401 |
| *lgg-1(tm3489)* vs. *lgg-1(G116A) RNAi unc-51* | 133,9 | 46,70 | 87,15 | 24 | 27 | 6,240 |
| *lgg-1(tm3489)* vs. *lgg-1(G116AG117\*) RNAi unc-51* | 133,9 | 141,2 | -7,321 | 24 | 20 | 0,4857 |
| *lgg-1(G116A)* vs. *lgg-1(G116AG117\*)* | 76,65 | 146,5 | -69,89 | 10 | 14 | 3,390 |
| *lgg-1(G116A)* vs. *RNAi unc-51* | 76,65 | 58,70 | 17,95 | 10 | 28 | 0,9789 |
| *lgg-1(G116A)* vs. lgg-1(tm3489) RNAI unc-51 | 76,65 | 49,88 | 26,78 | 10 | 36 | 1,505 |
| *lgg-1(G116A)* vs. *lgg-1(G116A) RNAi unc-51* | 76,65 | 46,70 | 29,95 | 10 | 27 | 1,625 |
| *lgg-1(G116A)* vs. *lgg-1(G116AG117\*) RNAi unc-51* | 76,65 | 141,2 | -64,53 | 10 | 20 | 3,346 |
| *lgg-1(G116AG117\*)* vs. *RNAi unc-51* | 146,5 | 58,70 | 87,84 | 14 | 28 | 5,390 |
| *lgg-1(G116AG117\*)* vs. lgg-1(tm3489) RNAI unc-51 | 146,5 | 49,88 | 96,66 | 14 | 36 | 6,164 |
| *lgg-1(G116AG117\*)* vs. *lgg-1(G116A) RNAi unc-51* | 146,5 | 46,70 | 99,83 | 14 | 27 | 6,089 |
| *lgg-1(G116AG117\*)* vs. *lgg-1(G116AG117\*) RNAi unc-51* | 146,5 | 141,2 | 5,361 | 14 | 20 | 0,3090 |
| *RNAi unc-51* vs. lgg-1(tm3489) RNAi unc-51 | 58,70 | 49,88 | 8,821 | 28 | 36 | 0,7032 |
| *RNAi unc-51* vs. *lgg-1(G116A) RNAi unc-51* | 58,70 | 46,70 | 11,99 | 28 | 27 | 0,8931 |
| *RNAi unc-51* vs. *lgg-1(G116AG117\*) RNAi unc-51* | 58,70 | 141,2 | -82,48 | 28 | 20 | 5,659 |
| lgg-1(tm3489) RNAi unc-51 vs. *lgg-1(G116A) RNAi unc-51* | 49,88 | 46,70 | 3,171 | 36 | 27 | 0,2502 |
| lgg-1(tm3489) RNAi unc-51 vs. *lgg-1(G116AG117\*) RNAi unc-51* | 49,88 | 141,2 | -91,30 | 36 | 20 | 6,576 |
| *lgg-1(G116A) RNAi unc-51* vs. *lgg-1(G116AG117\*) RNAi unc-51* | 46,70 | 141,2 | -94,47 | 27 | 20 | 6,432 |

| | | | |
|---|---|---|---|
| Number of families | | 1 | |
| Number of comparisons per family | | 28 | |
| Alpha | | 0,05 | |

| Dunn's multiple comparisons test | Mean rank diff, | Significant? | Summary | Adjusted P Value | |
|---|---|---|---|---|---|
| ctrl vs. lgg-1(tm3489) | -76,69 | Yes | ** | 0,0028 | A-B |
| ctrl vs. *lgg-1(G116A)* | 21,55 | No | ns | >0,9999 | A-C |
| ctrl vs. *lgg-1(G116AG117*)* | -37,98 | No | ns | 0,4517 | A-D |
| ctrl vs. *RNAi unc-51* | 33,43 | No | ns | 0,8686 | A-E |
| ctrl vs. lgg-1(tm3489) RNAI unc-51 | 60,80 | No | ns | 0,1943 | A-F |
| ctrl vs. *lgg-1(G116A) RNAi unc-51* | 39,70 | No | ns | 0,1966 | A-G |
| ctrl vs. *lgg-1(G116AG117*) RNAi unc-51* | -9,650 | No | ns | >0,9999 | A-H |
| lgg-1(tm3489) vs. *lgg-1(G116A)* | 98,25 | Yes | **** | <0,0001 | B-C |
| lgg-1(tm3489) vs. *lgg-1(G116AG117*)* | 38,72 | No | ns | >0,9999 | B-D |
| lgg-1(tm3489) vs. *RNAi unc-51* | 110,1 | Yes | **** | <0,0001 | B-E |
| lgg-1(tm3489) vs. lgg-1(tm3489) RNAI unc-51 | 137,5 | Yes | **** | <0,0001 | B-F |
| lgg-1(tm3489) vs. *lgg-1(G116A) RNAi unc-51* | 116,4 | Yes | **** | <0,0001 | B-G |
| lgg-1(tm3489) vs. *lgg-1(G116AG117*) RNAi unc-51* | 67,05 | Yes | * | 0,0200 | B-H |
| *lgg-1(G116A)* vs. *lgg-1(G116AG117*)* | -59,53 | Yes | ** | 0,0028 | C-D |
| *lgg-1(G116A)* vs. *RNAi unc-51* | 11,88 | No | ns | >0,9999 | C-E |
| *lgg-1(G116A)* vs. lgg-1(tm3489) RNAI unc-51 | 39,25 | No | ns | >0,9999 | C-F |
| *lgg-1(G116A)* vs. *lgg-1(G116A) RNAi unc-51* | 18,15 | No | ns | >0,9999 | C-G |
| *lgg-1(G116A)* vs. *lgg-1(G116AG117*) RNAi unc-51* | -31,20 | No | ns | >0,9999 | C-H |
| *lgg-1(G116AG117*)* vs. *RNAi unc-51* | 71,41 | Yes | *** | 0,0002 | D-E |
| *lgg-1(G116AG117*)* vs. lgg-1(tm3489) RNAI unc-51 | 98,78 | Yes | *** | 0,0004 | D-F |
| *lgg-1(G116AG117*)* vs. *lgg-1(G116A) RNAi unc-51* | 77,68 | Yes | **** | <0,0001 | D-G |
| *lgg-1(G116AG117*)* vs. *lgg-1(G116AG117*) RNAi unc-51* | 28,33 | No | ns | >0,9999 | D-H |
| *RNAi unc-51* vs. lgg-1(tm3489) RNAI unc-51 | 27,37 | No | ns | >0,9999 | E-F |
| *RNAi unc-51* vs. *lgg-1(G116A) RNAi unc-51* | 6,273 | No | ns | >0,9999 | E-G |
| *RNAi unc-51* vs. *lgg-1(G116AG117*) RNAi unc-51* | -43,08 | No | ns | 0,1644 | E-H |
| lgg-1(tm3489) RNAI unc-51 vs. *lgg-1(G116A) RNAi unc-51* | -21,10 | No | ns | >0,9999 | F-G |
| lgg-1(tm3489) RNAI unc-51 vs. *lgg-1(G116AG117*) RNAi unc-51* | -70,45 | No | ns | 0,0515 | F-H |
| *lgg-1(G116A) RNAi unc-51* vs. *lgg-1(G116AG117*) RNAi unc-51* | -49,35 | Yes | * | 0,0253 | G-H( |

| Test details | Mean rank 1 | Mean rank 2 | Mean rank diff, | n1 | n2 | Z |
|---|---|---|---|---|---|---|
| ctrl vs. lgg-1(tm3489) | 109,2 | 185,9 | -76,69 | 29 | 13 | 3,893 |
| ctrl vs. *lgg-1(G116A)* | 109,2 | 87,64 | 21,55 | 29 | 33 | 1,435 |
| ctrl vs. *lgg-1(G116AG117*)* | 109,2 | 147,2 | -37,98 | 29 | 27 | 2,406 |
| ctrl vs. *RNAi unc-51* | 109,2 | 75,76 | 33,43 | 29 | 29 | 2,157 |
| ctrl vs. lgg-1(tm3489) RNAI unc-51 | 109,2 | 48,39 | 60,80 | 29 | 9 | 2,700 |
| ctrl vs. *lgg-1(G116A) RNAi unc-51* | 109,2 | 69,49 | 39,70 | 29 | 36 | 2,696 |
| ctrl vs. *lgg-1(G116AG117*) RNAi unc-51* | 109,2 | 118,8 | -9,650 | 29 | 28 | 0,6171 |
| lgg-1(tm3489) vs. *lgg-1(G116A)* | 185,9 | 87,64 | 98,25 | 13 | 33 | 5,083 |
| lgg-1(tm3489) vs. *lgg-1(G116AG117*)* | 185,9 | 147,2 | 38,72 | 13 | 27 | 1,943 |
| lgg-1(tm3489) vs. *RNAi unc-51* | 185,9 | 75,76 | 110,1 | 13 | 29 | 5,590 |
| lgg-1(tm3489) vs. lgg-1(tm3489) RNAI unc-51 | 185,9 | 48,39 | 137,5 | 13 | 9 | 5,372 |
| lgg-1(tm3489) vs. *lgg-1(G116A) RNAi unc-51* | 185,9 | 69,49 | 116,4 | 13 | 36 | 6,095 |
| lgg-1(tm3489) vs. *lgg-1(G116AG117*) RNAi unc-51* | 185,9 | 118,8 | 67,05 | 13 | 28 | 3,385 |
| *lgg-1(G116A)* vs. *lgg-1(G116AG117*)* | 87,64 | 147,2 | -59,53 | 33 | 27 | 3,887 |
| *lgg-1(G116A)* vs. *RNAi unc-51* | 87,64 | 75,76 | 11,88 | 33 | 29 | 0,7906 |
| *lgg-1(G116A)* vs. lgg-1(tm3489) RNAI unc-51 | 87,64 | 48,39 | 39,25 | 33 | 9 | 1,768 |
| *lgg-1(G116A)* vs. *lgg-1(G116A) RNAi unc-51* | 87,64 | 69,49 | 18,15 | 33 | 36 | 1,276 |
| *lgg-1(G116A)* vs. *lgg-1(G116AG117*) RNAi unc-51* | 87,64 | 118,8 | -31,20 | 33 | 28 | 2,058 |
| *lgg-1(G116AG117*)* vs. *RNAi unc-51* | 147,2 | 75,76 | 71,41 | 27 | 29 | 4,524 |
| *lgg-1(G116AG117*)* vs. lgg-1(tm3489) RNAI unc-51 | 147,2 | 48,39 | 98,78 | 27 | 9 | 4,348 |
| *lgg-1(G116AG117*)* vs. *lgg-1(G116A) RNAi unc-51* | 147,2 | 69,49 | 77,68 | 27 | 36 | 5,170 |
| *lgg-1(G116AG117*)* vs. *lgg-1(G116AG117*) RNAi unc-51* | 147,2 | 118,8 | 28,33 | 27 | 28 | 1,779 |
| *RNAi unc-51* vs. lgg-1(tm3489) RNAI unc-51 | 75,76 | 48,39 | 27,37 | 29 | 9 | 1,215 |
| *RNAi unc-51* vs. *lgg-1(G116A) RNAi unc-51* | 75,76 | 69,49 | 6,273 | 29 | 36 | 0,4259 |
| *RNAi unc-51* vs. *lgg-1(G116AG117*) RNAi unc-51* | 75,76 | 118,8 | -43,08 | 29 | 28 | 2,755 |
| lgg-1(tm3489) RNAI unc-51 vs. *lgg-1(G116A) RNAi unc-51* | 48,39 | 69,49 | -21,10 | 9 | 36 | 0,9591 |
| lgg-1(tm3489) RNAI unc-51 vs. *lgg-1(G116AG117*) RNAi unc-51* | 48,39 | 118,8 | -70,45 | 9 | 28 | 3,115 |
| *lgg-1(G116A) RNAi unc-51* vs. *lgg-1(G116AG117*) RNAi unc-51* | 69,49 | 118,8 | -49,35 | 36 | 28 | 3,318 |