Matriz de Correlação Ligante

| | Matriz de Correlação Ligante | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|------------------------------|-------|--------|------|-------|-------|--------|------------|-------|--------|----------------|-------|-------|-------|--------|-------|-------------|--------|------|--------|---------|--------|------|-------|--------|--------|--------|--------|------|-------|--------|--------|-------|---------|-------|--------|--------|------|-------|--------|------|--------|--------|-------|-------|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 0.4 | 0.39 | 0.27 | 0.38 | | | | 0.59 | 0.4 | 6 0. | 45 C | 0.45 | 0.45 | 0.42 | 0.58 | | | | | | | | | | | | | | | | 0.36 | | | | | | | | 0.36 | | | | 0.34 | |
| 0 | .4 | 1 | 1 | 0.98 | 1 | | | 0.99 | 0.63 | | | | | | | | | | | 0.99 | 0.99 | | | | | 0.99 | 0.99 | | 0.8 | 0.99 | 0.99 | 0.99 | 0.99 | | | 0.99 | 0.99 | 0.81 | 0.99 | | | 0.99 | | | |
| 0. | | 1 | 1 | 0.98 | 1 | | 0.014 | 0.00 | 0.62 | | - | | | | 0.99 | | | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.79 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.8 | 0.99 | 0.99 | 0.99 | 0.99 | | 0.99 | 0.99 | 0.99 | 0.81 | 0.99 | 0.99 | 0.81 | 0.99 | | | |
| 0. | 27 | 0.98 | 0.98 | 0.00 | 0.98 | | 0.12 | | 0.55 | | 95 0. 99 0. | | 1.96 | | 0.96 | | | 0.96 | 0.96 | 0.97 | 0.96 | 0.96 | 0.85 | 0.96 | 0.96 | 0.97 | 0.96 | 0.96 | 0.86 | 0.96 | 0.97 | 0.96 | 0.96 | | | 0.96 | 0.96 | 0.87 | 0.96 | 0.96 | 0.88 | 0.96 | | 0.98 | |
| 0. | 30 | 1 | 1 | 0.98 | 1 | - | 0.013 | | 0.62 | | 99 0. 98 0. | | 0.99 | 0.00 | 0.99 | | 0.00 | 0.00 | 0.99 | 0.99 | 0.99 | 0.99 | 0.79 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.0 | 0.99 | 0.99 | 0.99 | 0.99 | | | 0.99 | 0.99 | 0.01 | 0.99 | 0.99 | | 0.99 | | | |
| | | 0.018 | 0 014 | 0.99 | 0.013 | 0.035 | | | -0.08 | | | | | | | | | | | | 1-0.048 | | | | | | -0.049 | | | | | -0.042 | | | | -0.049 | | | | | | -0.053 | | | |
| 0. | | | | | | | | | 0.62 | | 9 0. | | | | 0.99 | | -0.055 1 | 1 | 1 | 1 | 1-0.040 | 1 | 0.76 | 1 | 1 | 1 | 1 | 1 | 0.33 | 1 | 1 | 1 | 1 | 0.71 | 1 | 1 | 1 | 0.54 | 1 | 1 | 0.49 | | -0.028 | | |
| 0. | | | | | | | | 0.62 | 1 | 0.6 | 6 0. | 65 | | 0.65 | 0.00 | 0.11 | 0.62 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.75 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.75 | 0.6 | 0.6 | 0.6 | 0.6 | 0.29 | 0.6 | 0.6 | 0.6 | 0.77 | 0.6 | 0.6 | 0.76 | | -0.036 | | |
| 0. | 46 | | | | | 0.98 | | | 0.66 | 1 | 0. | 1 | 1 | 1 | 1 | 0.19 | 1 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.74 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.74 | 0.99 | 0.99 | 0.99 | | | 0.99 | 0.99 | 0.99 | 0.75 | 0.99 | 0.99 | 0.75 | 0.99 | | | |
| 0. | 45 | | | | | 0.98 | | | 0.65 | 1 | | 1 | 1 | 1 | 1 | 0.19 | 1 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.74 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | | 0.99 | 0.99 | 0.99 | 0.99 | 0.52 | | 0.99 | 0.99 | 0.75 | 0.99 | | | 0.99 | | | |
| 0. | | | | | | 0.98 | | | 0.6 | 1 | | 1 | 1 | 1 | 1 | 0.23 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.76 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.76 | 0.99 | 0.99 | 0.99 | 0.99 | 0.54 | 0.99 | 0.99 | 0.99 | 0.77 | 0.99 | 0.99 | 0.77 | | -0.055 | | |
| 0. | 45 | 0.99 | 0.99 | 0.95 | 0.99 | 0.98 | -0.05 | 0.99 | 0.65 | 1 | | 1 | 1 | 1 | 1 | 0.19 | 1 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.74 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 0.74 | 0.99 | 0.99 | 0.99 | 0.99 | 0.52 | 0.99 | 0.99 | 0.99 | 0.75 | 0.99 | 0.99 | 0.75 | 0.99 | -0.067 | 0.95 | 0.99 |
| 0. | 42 | 0.99 | 0.99 | 0.96 | 0.99 | 0.99 | -0.038 | 0.99 | 0.61 | 1 | | 1 | 1 | 1 | 1 | 0.18 | 1 | 1 | 1 | 1 | 1 | 1 | 0.74 | 1 | 1 | 1 | 1 | 1 | 0.75 | 1 | 1 | 1 | 1 | 0.53 | 1 | 1 | 1 | 0.76 | 1 | 1 | 0.76 | 1 | -0.056 | 0.95 | 0.99 |
| 0. | 58 | 0.18 | 0.17 | 0.17 | 0.17 | 0.16 | 0.046 | 0.14 | 0.11 | 0.1 | 9 0. | 19 0 | .23 | 0.19 | 0.18 | 1 | 0.15 | 0.13 | 0.13 | 0.13 | 0.13 | 0.12 | 0.27 | 0.12 | 0.13 | 0.13 | 0.13 | 0.12 | 0.27 | 0.12 | 0.13 | 0.13 | 0.13 | 0.16 | 0.12 | 0.12 | 0.12 | 0.26 | 0.12 | 0.12 | 0.21 | 0.12 | -0.24 | 0.15 | 0.12 |
| 0 | .4 | 0.99 | 0.99 | 0.96 | 0.99 | 0.98 | -0.053 | 3 1 | 0.62 | 1 | | 1 C | .99 | 1 | 1 | 0.15 | 1 | 1 | 1 | 1 | 1 | 1 | 0.73 | 1 | 1 | 1 | 1 | 1 | 0.74 | 1 | 1 | 1 | 1 | 0.52 | 1 | 1 | 1 | 0.75 | 1 | 1 | 0.75 | 1 | -0.065 | 0.95 | 1 |
| 0. | 37 | 0.99 | 0.99 | 0.96 | 0.99 | 0.99 | -0.048 | 3 1 | 0.6 | 0.9 | 9 0. | 99 C | .99 | 0.99 | 1 | 0.13 | 1 | 1 | 1 | 1 | 1 | 1 | 0.73 | 1 | 1 | 1 | 1 | 1 | 0.74 | 1 | 1 | 1 | 1 | 0.52 | 1 | 1 | 1 | 0.75 | 1 | 1 | 0.75 | 1 | -0.056 | 0.95 | 1 |
| 0. | 37 | 0.99 | 0.99 | 0.96 | 0.99 | 0.99 | -0.048 | 3 1 | 0.6 | 0.9 | 9 0. | 99 C | .99 | 0.99 | 1 | 0.13 | 1 | 1 | 1 | 1 | 1 | 1 | 0.73 | 1 | 1 | 1 | 1 | 1 | 0.74 | 1 | 1 | 1 | 1 | 0.52 | 1 | 1 | 1 | 0.75 | 1 | 1 | 0.75 | 1 | -0.056 | 0.95 | 1 |
| 0. | 36 | 0.99 | 0.99 | 0.97 | 0.99 | 0.99 | -0.041 | 1 1 | 0.6 | 0.9 | 9 0. | 99 0 | .99 | 0.99 | 1 | 0.13 | 1 | 1 | 1 | 1 | 1 | 1 | 0.74 | 1 | 1 | 1 | 1 | 1 | 0.75 | 1 | 1 | 1 | 1 | 0.53 | 1 | 1 | 1 | 0.75 | 1 | 1 | 0.76 | 1 | -0.049 | 0.95 | 1 |
| 0. | 37 | 0.99 | 0.99 | 0.96 | 0.99 | 0.99 | -0.048 | 3 1 | 0.6 | 0.9 | 9 0. | 99 0 | .99 | 0.99 | 1 | 0.13 | 1 | 1 | 1 | 1 | 1 | 1 | 0.73 | 1 | 1 | 1 | 1 | 1 | 0.74 | 1 | 1 | 1 | 1 | 0.52 | 1 | 1 | 1 | 0.75 | 1 | 1 | 0.75 | 1 | -0.056 | 0.95 | 1 |
| 0. | 37 | 0.99 | 0.99 | 0.96 | 0.99 | 0.99 | -0.048 | 3 1 | 0.6 | 0.9 | 9 0. | 99 0 |).99 | 0.99 | 1 | 0.12 | 1 | 1 | 1 | 1 | 1 | 1 | 0.73 | 1 | 1 | 1 | 1 | 1 | 0.74 | 1 | 1 | 1 | 1 | 0.52 | 1 | 1 | 1 | 0.75 | 1 | 1 | 0.75 | 1 | -0.055 | 0.95 | 1 |
| 0. | | | 0.79 | | | 0.8 | | 0.76 | 0.45 | 0.7 | ' 4 0. | 74 C |).76 | 0.74 | 0.74 | 0.27 | 0.73 | 0.73 | 0.73 | 0.74 | 0.73 | 0.73 | 1 | 0.73 | 0.73 | 0.74 | 0.73 | 0.73 | 1 | 0.73 | 0.75 | 0.74 | 0.74 | 0.95 | 0.73 | 0.73 | 0.73 | 1 | 0.73 | 0.73 | 0.98 | | | 0.89 | |
| 0. | | | | | | 0.99 | | | 0.6 | 0.9 | 9 0. | 99 0 |).99 | 0.99 | 1 | 0.12 | 1 | 1 | 1 | 1 | 1 | 1 | 0.73 | 1 | 1 | 1 | 1 | 1 | 0.73 | 1 | 1 | 1 | 1 | 0.52 | 1 | 1 | 1 | 0.74 | 1 | 1 | 0.75 | | -0.06 | | |
| 0. | | | | | | 0.99 | | | 0.6 | | 9 0. | | 0.99 | 0.99 | 1 | 0.13 | 1 | 1 | 1 | 1 | 1 | 1 | 0.73 | 1 | 1 | 1 | 1 | 1 | 0.74 | 1 | 1 | 1 | 1 | 0.52 | 1 | 1 | 1 | 0.75 | 1 | 1 | 0.75 | | -0.056 | | |
| 0. | | 0.00 | | | | 0.99 | | | 0.6 | 0.0 | | 99 0 |).99 | 0.99 | 1 | 0.13 | 1 | 1 | 1 | 1 | 1 | 1 | 0.74 | 1 | 1 | 1 | 1 | 1 | 0.74 | 1 | 1 | 1 | 1 | 0.53 | 1 | 1 | 1 | 0.75 | 1 | 1 | 0.76 | 1 | 0.01.0 | 0.95 | |
| 0. | | 0.00 | 0.99 | 0.96 | | 0.99 | | | 0.6 | | 9 0. | |).99 | 0.99 | 1 | 0.13 | 1 | 1 | 1 | 1 | 1 | 1 | 0.73 | 1 | 1 | 1 | 1 | 1 | 0.74 | 1 | 1 | 1 | 1 | 0.52 | 1 | 1 | 1 | 0.75 | 1 | 1 | 0.75 | 1 | | 0.95 | |
| 0. | 37 | 0.99 | 0.99 | 0.96 | 0.99 | 0.99 | -0.048 | 3 1 | 0.6 | 0.9 | 9 0. | 99 (| 0.99 | 0.99 | 1 | 0.12 | 1 | 1 | 1 | 1 | 1 | 1 | 0.73 | 1 | 1 | 1 | 1 | 1 | 0.74 | 1 | 1 | 1 | 1 | 0.52 | 1 | 1 | 1 | 0.75 | 1 | 1 | 0.75 | 1 | -0.055 | 0.95 | 1 |
| 0. | 25 | 0.8 | 0.8 | 0.86 | 0.8 | 0.81 | 0.55 | 0.76 | 0.45 | 0.7 | 4 0. | 74 (|).76 | 0.74 | 0.75 | 0.27 | 0.74 | 0.74 | 0.74 | 0.75 | 0.74 | 0.74 | 0.70 | 0.73 | 0.74 | 0.74 | 0.74 | 0.74 | 1 | 0.73 | 0.75 | 0.74 | 0.74 | 0.95 | | 0.74 | | 7 | 0.73 | 0.74 | 0.99 | 0.73 | 0.5 | 0.89 | 0.73 |
| | | | | | | | | 1 1 | | | | | | | | | | | 1 | 1 | 1 | 1 | 0.75 | | 1 | 1 | 1 | | 0.75 | | 1 | 1 | 1 | 0.52 | 1 | 1 | | 0.74 | | | 0.75 | | -0.038 | | |
| | | | | | | | | ' ' 2 1 | | | | | | | | | | | 1 | 1 | 1 | 1 | 0.73 | | 1 | 1 | 1 | 1 | 0.73 | | 1 | 1 | 1 | 0.54 | 1 | 1 | - | 0.75 | 1 | | 0.76 | | -0.038 | | |
| | | | | | | | | 2 1 | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 0.74 | 1 | 1 | 1 | 1 | 1 | 0.74 | 1 | 1 | 1 | | 0.53 | 1 | 1 | 1 | 0.75 | 1 | | 0.76 | | -0.049 | | |
| | | | | | | | | | | | | | | | | | 0.52 | 0.52 | 0.52 | 0.53 | 0.52 | 0.52 | 0.95 | 0.52 | 0.52 | 0.53 | 0.52 | 0.52 | 0.95 | 0.52 | 0.54 | 0.53 | | | 0.52 | 0.52 | 0.52 | 0.95 | 0.52 | | | 0.52 | | | |
| | | | | | | | | 1 | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 0.73 | | 1 | 1 | 1 | | 0.74 | | | 1 | | 0.52 | 1 | 1 | | 0.75 | | | 0.75 | | -0.057 | | |
| | | | | | | | | 1 | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 0.73 | 1 | 1 | 1 | 1 | 1 | 0.74 | 1 | 1 | 1 | | | 1 | 1 | 1 | 0.75 | 1 | 1 | 0.75 | | -0.056 | | |
| | | | | | | | | 3 1 | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | 0.73 | 1 | 1 | 1 | 1 | 1 | 0.74 | 1 | 1 | 1 | 1 | 0.52 | 1 | 1 | 1 | 0.75 | 1 | 1 | 0.75 | 1 | -0.055 | 0.95 | 1 |
| 0. | 25 | 0.81 | 0.81 | 0.87 | 0.81 | 0.82 | 0.54 | 0.77 | 0.45 | 0.7 | '5 0. | 75 C |).77 | 0.75 | 0.76 | 0.26 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 0.75 | 1 | 0.74 | 0.75 | 0.75 | 0.75 | 0.75 | 1 | 0.74 | 0.76 | 0.75 | 0.75 | 0.95 | 0.75 | 0.75 | 0.75 | 1 | 0.74 | 0.75 | 0.99 | 0.74 | 0.49 | 0.9 | 0.74 |
| 0. | 37 | 0.99 | 0.99 | 0.96 | 0.99 | 0.99 | -0.053 | 3 1 | 0.6 | 0.9 | 9 0. | 99 C | .99 | 0.99 | 1 | 0.12 | 1 | 1 | 1 | 1 | 1 | 1 | 0.73 | 1 | 1 | 1 | 1 | 1 | 0.73 | 1 | 1 | 1 | 1 | 0.52 | 1 | 1 | 1 | 0.74 | 1 | 1 | 0.75 | 1 | -0.06 | 0.95 | 1 |
| 0. | 36 | 0.99 | 0.99 | 0.96 | 0.99 | 0.99 | -0.048 | 3 1 | 0.6 | 0.9 | 9 0. | 99 0 | .99 | 0.99 | 1 | 0.12 | 1 | 1 | 1 | 1 | 1 | 1 | 0.73 | 1 | 1 | 1 | 1 | 1 | 0.74 | 1 | 1 | 1 | 1 | 0.52 | 1 | 1 | 1 | 0.75 | 1 | 1 | 0.75 | 1 - | -0.055 | 0.95 | 1 |
| 0. | 22 | 0.81 | 0.81 | 0.88 | 0.81 | 0.83 | 0.49 | 0.78 | 0.45 | 0.7 | 7 5 0. | 75 C |).77 | 0.75 | 0.76 | 0.21 | 0.75 | 0.75 | 0.75 | 0.76 | 0.75 | 0.75 | 0.98 | 0.75 | 0.75 | 0.76 | 0.75 | 0.75 | 0.99 | 0.75 | 0.77 | 0.76 | 0.76 | 0.95 | 0.75 | 0.75 | 0.75 | 0.99 | 0.75 | 0.75 | 1 | 0.75 | 0.47 | 0.9 | 0.75 |
| 0. | 37 | 0.99 | 0.99 | 0.96 | 0.99 | 0.99 | -0.053 | 3 1 | 0.6 | 0.9 | 9 0. | 99 0 | .99 | 0.99 | 1 | 0.12 | 1 | 1 | 1 | 1 | 1 | 1 | 0.73 | 1 | 1 | 1 | 1 | 1 | 0.73 | 1 | 1 | 1 | 1 | 0.52 | 1 | 1 | 1 | 0.74 | 1 | 1 | 0.75 | 1 | -0.059 | 0.95 | 1 |
| -0. | 27 0. | .0027 | 0.0012 | 0.1 | 0.001 | 0.023 | 0.91 | -0.028 | -0.03 | 6 -0.C | 0.0 | 068-0 | .055- | 0.067 | -0.056 | -0.24 | -0.065 | -0.056 | 0.05 | 6-0.04 | 9-0.056 | 6-0.05 | 0.51 | -0.06 | -0.056 | -0.049 | -0.056 | -0.055 | 0.5 | -0.06 | -0.038 | -0.049 | 0.049 | 0.69 -0 | 0.057 | -0.056 | -0.055 | 0.49 | -0.06 | -0.055 | 0.47 | -0.059 | 1 | 0.2 - | 0.061 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 0.95 | | | |
| 0. | 37 | 0.99 | 0.99 | 0.96 | 0.99 | 0.99 | -0.055 | 5 1 | 0.6 | 0.9 | 9 0. | 99 0 | .99 | 0.99 | 0.99 | 0.12 | 1 | 1 | 1 | 1 | 1 | 1 | 0.72 | 1 | 1 | 1 | 1 | 1 | 0.73 | 1 | 1 | 1 | 1 | 0.51 | 1 | 1 | 1 | 0.74 | 1 | 1 | 0.75 | 1 | -0.061 | 0.95 | 1 |
| 0 ′ | ١ | 2 | 3 | Д | 5 | 6 | 7 | 8 | 9 | 10 |) 1 | 1 | 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 |

- 0.75 **-** 0.50 **-** 0.25