

Supplementary Table SII The Modified Johnsen's score (JS) for each individual.

| ID | Number of seminiferous tubules with corresponding JS | | | | | | | | | | Mean JS |
|----|--|-----|-----|-----|-----|-----|-----|-----|-----|------|---------|
| | JS1 | JS2 | JS3 | JS4 | JS5 | JS6 | JS7 | JS8 | JS9 | JS10 | |
| 1 | 0 | 13 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 2.94 |
| 2 | 0 | 5 | 31 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 3.2 |
| 3 | 6 | 42 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.96 |
| 4 | 0 | 36 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.28 |
| 5 | 0 | 41 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.18 |
| 6 | 0 | 39 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.24 |
| 8 | 5 | 32 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.16 |
| 9 | 4 | 24 | 21 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2.38 |
| 10 | 19 | 29 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.72 |
| 11 | 0 | 25 | 21 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 2.58 |
| 14 | 1 | 24 | 24 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 2.54 |
| 15 | 32 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.36 |
| 16 | 4 | 40 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.04 |
| 17 | 7 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.86 |
| 18 | 23 | 18 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.77 |
| 19 | 0 | 24 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.56 |
| 20 | 21 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.58 |
| 21 | 0 | 16 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.69 |
| 22 | 4 | 29 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.29 |
| 23 | 0 | 38 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.26 |
| 24 | 9 | 38 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.86 |
| 25 | 0 | 0 | 38 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 3.24 |
| 26 | 0 | 1 | 10 | 33 | 6 | 2 | 0 | 0 | 0 | 0 | 3.96 |
| 27 | 4 | 20 | 23 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2.5 |
| 28 | 8 | 29 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.12 |
| 29 | 0 | 17 | 31 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2.73 |
| 30 | 0 | 1 | 6 | 16 | 17 | 5 | 4 | 1 | 0 | 0 | 4.7 |
| 31 | 0 | 1 | 16 | 28 | 6 | 0 | 0 | 0 | 0 | 0 | 3.76 |
| 32 | 0 | 31 | 5 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 2.66 |
| 33 | 1 | 16 | 28 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2.76 |
| 34 | 8 | 26 | 15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2.18 |
| 35 | 5 | 36 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.12 |
| 37 | 0 | 5 | 18 | 22 | 4 | 0 | 0 | 1 | 0 | 0 | 3.6 |
| 38 | 0 | 9 | 43 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2.87 |
| 39 | 2 | 20 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.54 |
| 40 | 6 | 37 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2.04 |
| 41 | 0 | 40 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2.24 |
| 42 | 0 | 37 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.28 |
| 45 | 2 | 41 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.13 |
| 46 | 0 | 42 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 2.24 |
| 47 | 4 | 25 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.37 |
| 48 | 0 | 12 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.77 |
| 49 | 2 | 9 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.75 |

(continued)

Supplementary Table SII Continued

| ID | Number of seminiferous tubules with corresponding JS | | | | | | | | | | Mean JS |
|----|--|-----|-----|-----|-----|-----|-----|-----|-----|------|---------|
| | JS1 | JS2 | JS3 | JS4 | JS5 | JS6 | JS7 | JS8 | JS9 | JS10 | |
| 51 | 2 | 2 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.89 |
| 52 | 2 | 8 | 41 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.76 |
| 53 | 1 | 3 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.9 |
| 55 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 56 | 16 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.68 |
| 57 | 2 | 7 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.79 |
| 58 | 1 | 44 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.13 |
| 59 | 6 | 17 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.43 |
| 60 | 12 | 35 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.84 |
| 62 | 2 | 32 | 12 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 2.39 |
| 63 | 12 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.76 |
| 65 | 4 | 26 | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2.34 |
| 66 | 5 | 12 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.58 |
| 67 | 8 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.84 |
| 68 | 5 | 35 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.12 |
| 69 | 2 | 37 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.18 |
| 70 | 2 | 50 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.98 |
| 71 | 2 | 26 | 16 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 2.49 |
| 72 | 1 | 15 | 31 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2.72 |
| 73 | 0 | 10 | 34 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2.92 |
| 74 | 0 | 9 | 15 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 3.34 |
| 75 | 9 | 41 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.95 |
| 76 | 1 | 46 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.04 |
| 77 | 0 | 30 | 13 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 2.57 |
| 78 | 1 | 27 | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2.38 |
| 79 | 18 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.64 |
| 80 | 2 | 31 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.33 |
| 81 | 1 | 5 | 40 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 2.94 |
| 82 | 7 | 8 | 33 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2.63 |
| 83 | 9 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.83 |
| 84 | 1 | 33 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.31 |
| 85 | 0 | 7 | 22 | 11 | 3 | 8 | 4 | 3 | 0 | 0 | 4.12 |
| 86 | 0 | 35 | 14 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2.35 |
| 87 | 16 | 20 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.96 |
| 88 | 0 | 6 | 43 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2.94 |
| 89 | 0 | 21 | 5 | 25 | 2 | 0 | 0 | 0 | 0 | 0 | 3.15 |
| 91 | 0 | 4 | 14 | 19 | 8 | 9 | 0 | 1 | 0 | 0 | 4.15 |
| 92 | 2 | 12 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.69 |
| 93 | 10 | 45 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.84 |
| 94 | 1 | 6 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.84 |
| 95 | 2 | 3 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.86 |
| 96 | 4 | 5 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.75 |
| 97 | 9 | 41 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.87 |

(continued)

Supplementary Table SII Continued

| ID | Number of seminiferous tubules with corresponding JS | | | | | | | | | | Mean JS |
|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|------|---------|
| | JS1 | JS2 | JS3 | JS4 | JS5 | JS6 | JS7 | JS8 | JS9 | JS10 | |
| 100 | 7 | 10 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.54 |
| 101 | 16 | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.68 |
| 102 | 1 | 6 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.69 |
| 103 | 1 | 4 | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.88 |
| 104 | 4 | 44 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.09 |
| 105 | 35 | 6 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.75 |
| 106 | 3 | 6 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.77 |
| 110 | 0 | 3 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.94 |
| 112 | 3 | 3 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.82 |
| 113 | 12 | 39 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.83 |
| 114 | 3 | 4 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.8 |
| 115 | 1 | 5 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.86 |
| 117 | 4 | 23 | 25 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2.46 |
| 118 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 119 | 0 | 2 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.96 |
| 121 | 0 | 0 | 4 | 6 | 4 | 12 | 8 | 18 | 0 | 0 | 6.31 |
| 122 | 2 | 37 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2.2 |
| 124 | 1 | 22 | 27 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2.55 |
| 125 | 4 | 6 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.75 |
| 126 | 4 | 47 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.98 |
| 127 | 8 | 21 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.31 |
| 128 | 2 | 4 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.85 |
| 129 | 2 | 11 | 39 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2.74 |
| 130 | 2 | 2 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.88 |
| 131 | 4 | 46 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.04 |
| 132 | 36 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.3 |
| 133 | 5 | 43 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.96 |
| 134 | 2 | 9 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.75 |
| 135 | 0 | 2 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.96 |
| 136 | 0 | 0 | 7 | 10 | 1 | 9 | 7 | 17 | 0 | 0 | 5.98 |
| 138 | 2 | 27 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.49 |
| 139 | 0 | 2 | 10 | 30 | 9 | 0 | 0 | 0 | 0 | 0 | 3.9 |
| 140 | 1 | 4 | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.88 |
| 141 | 1 | 22 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.17 |
| 142 | 8 | 42 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.86 |
| 143 | 3 | 31 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.26 |
| 144 | 0 | 0 | 9 | 28 | 1 | 12 | 1 | 3 | 0 | 0 | 4.57 |
| 146 | 9 | 29 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.1 |
| 147 | 4 | 34 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.16 |
| 148 | 2 | 44 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.04 |
| 149 | 0 | 13 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.75 |
| 150 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 151 | 4 | 7 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.7 |

(continued)

Supplementary Table SII Continued

| ID | Number of seminiferous tubules with corresponding JS | | | | | | | | | | Mean JS |
|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|------|---------|
| | JS1 | JS2 | JS3 | JS4 | JS5 | JS6 | JS7 | JS8 | JS9 | JS10 | |
| 152 | 1 | 3 | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.9 |
| 153 | 0 | 2 | 6 | 5 | 4 | 6 | 7 | 15 | 5 | 0 | 6.2 |
| 154 | 2 | 45 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.02 |
| 155 | 3 | 5 | 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.78 |
| 156 | 4 | 19 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.49 |
| 157 | 46 | 6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.22 |
| 158 | 0 | 3 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.94 |
| 159 | 0 | 4 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.92 |
| 160 | 6 | 44 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.96 |
| 161 | 0 | 27 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.47 |
| 162 | 0 | 2 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.96 |
| 163 | 3 | 18 | 28 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2.57 |
| 164 | 3 | 24 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.62 |
| 165 | 2 | 7 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.78 |
| 166 | 0 | 17 | 27 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2.78 |
| 168 | 0 | 0 | 0 | 9 | 7 | 10 | 3 | 17 | 4 | 0 | 6.48 |
| 169 | 5 | 9 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.63 |
| 170 | 10 | 14 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.37 |
| 171 | 4 | 29 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.31 |
| 172 | 2 | 33 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.29 |
| 173 | 2 | 41 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.17 |
| 175 | 2 | 31 | 16 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 2.42 |
| 176 | 4 | 6 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.73 |
| 177 | 4 | 31 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.26 |
| 178 | 2 | 2 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.88 |
| 179 | 1 | 5 | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.86 |
| 182 | 2 | 8 | 37 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 2.84 |
| 183 | 3 | 28 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.36 |
| 184 | 6 | 42 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.98 |
| 186 | 2 | 27 | 21 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2.55 |
| 187 | 2 | 11 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.71 |
| 188 | 2 | 39 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.25 |
| 190 | 43 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.14 |
| 192 | 0 | 10 | 27 | 15 | 3 | 0 | 0 | 0 | 0 | 0 | 3.02 |
| 194 | 4 | 10 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.65 |
| 195 | 37 | 11 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.3 |
| 197 | 17 | 18 | 11 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 2.12 |
| 198 | 5 | 9 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.65 |
| 199 | 3 | 44 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.02 |
| 201 | 2 | 7 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.78 |
| 203 | 0 | 9 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.82 |
| 204 | 9 | 38 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.9 |
| 205 | 16 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.74 |

(continued)

