**Table S12**

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| --- | --- | --- | --- | --- |
|  |  | **Centenarians Males** | **Elderly****Males** | **Young****Males** |
| **Peak Integral (a.u.)** | **Chemical shift** | **Mean ± SD** | **Mean ± SD** | **Mean ± SD** |
| **PAG** | 7.43 (m), 7.36 (m)4.18 (m), 2.27 (t),2.11 (m) | 9.56 ± 3.42\*\*\* | 6.15 ± 2.38 | 6.47 ± 2.25 |
| **PCS** | 2.34 (s), 7.21 (d),7.28 (d)) | 3.89 ± 1.49\*\*\* | 2.43 ± 1.01 | 2.55 ± 0.85 |
| **2-HB** | 7.87 (d), 7.49 (m), 7.02, 6.95 (m) | 14.7 ± 2.84\*\*\* | 2.43 ± 1.06 | 0.32 ± 0.81 |