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| **Supplementary Table 3. ﻿**Partial Spearman Correlation between serum protein levels of all biomarkers and participants athletic/concussion history in male and female sample. \*P <.05. |
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|  |  |
| --- | --- |
|   | Male |
| HNE4 | BLBP | CLDN5 | Fibrinogen | GFAP | HMGB1 | NFL | PEA15 | pTau | Tau | UCHL1 | VEGFa | vWF |
| Years of exposure | .036 | .147 | -.059 | .093 | -.232 | .103 | -.197 | -.037 | .003 | .169 | -.276 | -.054 | .045 |
| Age commence collision sport | .014 | -.019 | -.025 | -.067 | .08 | -.174 | -.041 | .014 | .014 | -.301 | -.012 | -.075 | -.182 |
|   | Female  |
| HNE4 | BLBP | CLDN5 | Fibrinogen | GFAP | HMGB1 | NFL | PEA15 | pTau | Tau | UCHL1 | VEGFa | vWF |
| Years of exposure  | -.293 | .104 | -.037 | .087 | -.145 | -.090 | -.209 | -.145 | -.172 | .136 | .048 | -.156 | .136 |
| Age commence collision sport | .158 | -.33 | .300 | .521\* | .225 | .136 | .207 | -.317 | .327 | .325 | -.126 | -.414 | -.044 |

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