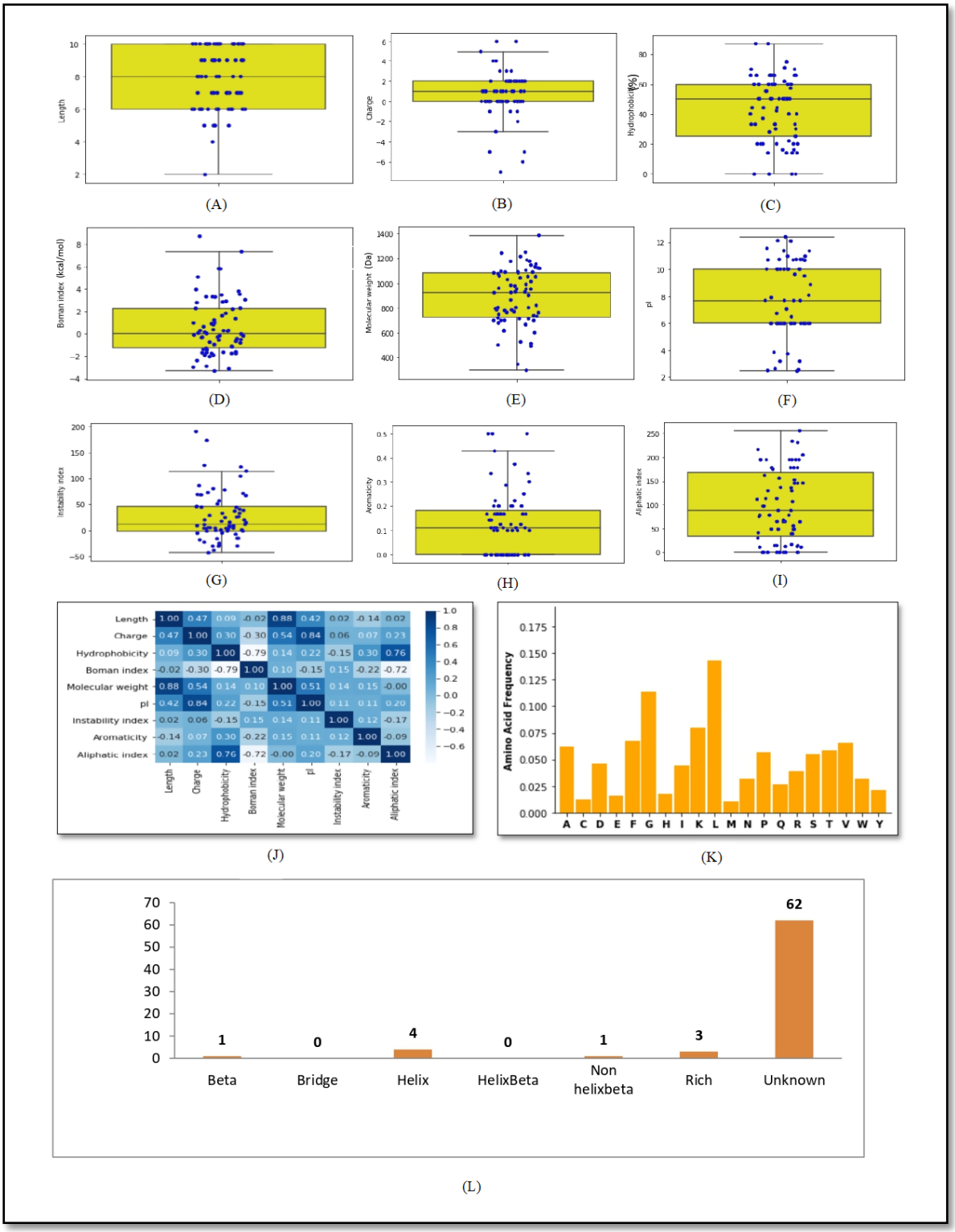


**Figure S1: Graphical profile of natural AMPs subset 1-10. (A)** Distribution of length **(B)** charge **(C)** hydrophobicity **(D)** Boman index **(E)** molecular weight **(F)** pI **(G)** instability index **(H)** aromaticity **(I)** aliphatic index **(J)** correlation heatmap **(K)** amino acid frequency, and **(L)** structure type in natural AMPs subset 1-10.

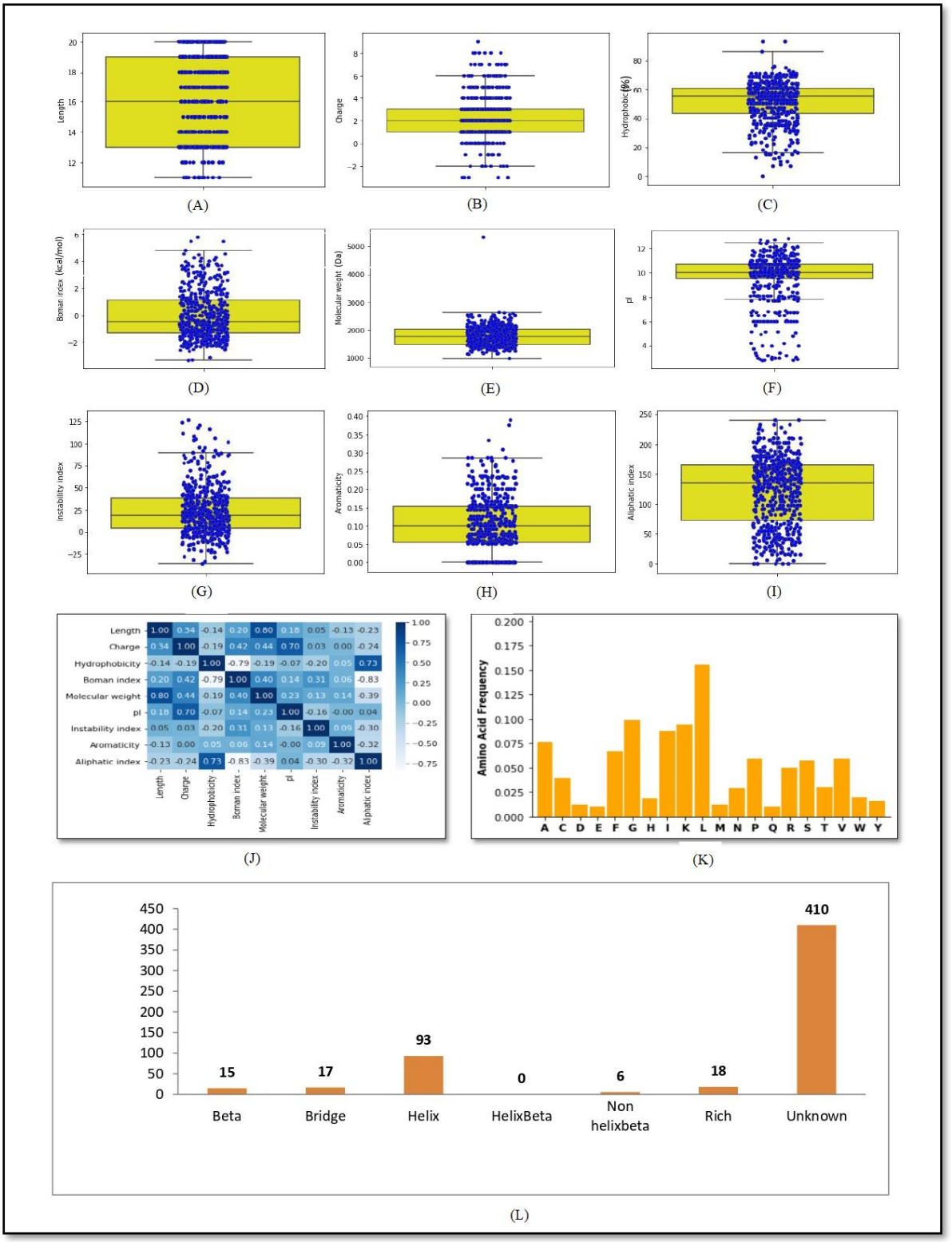


**Figure S2: Graphical profile of natural AMPs subset 11-20. (A)** Distribution of length **(B)** charge **(C)** hydrophobicity **(D)** Boman index **(E)** molecular weight **(F)** pI **(G)** instability index **(H)** aromaticity **(I)** aliphatic index **(J)** correlation heatmap **(K)** amino acid frequency, and **(L)** structure type in natural AMPs subset 11-20.

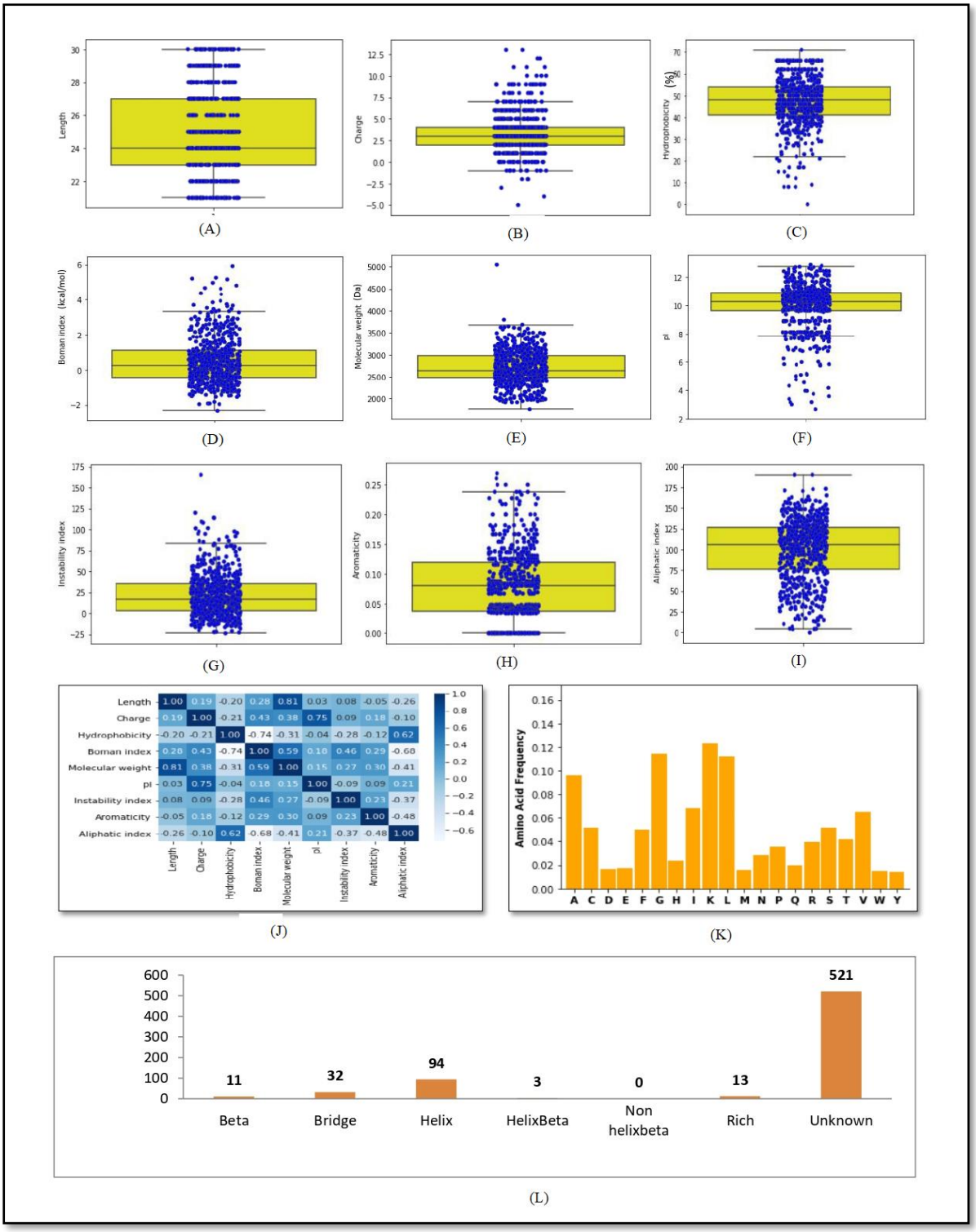


**Figure S3: Graphical profile of natural AMPs subset 21-30. (A)** Distribution of length **(B)** charge **(C)** hydrophobicity **(D)** Boman index **(E)** molecular weight **(F)** pI **(G)** instability index **(H)** aromaticity **(I)** aliphatic index **(J)** correlation heatmap **(K)** amino acid frequency, and **(L)** structure type in natural AMPs subset 21-30.

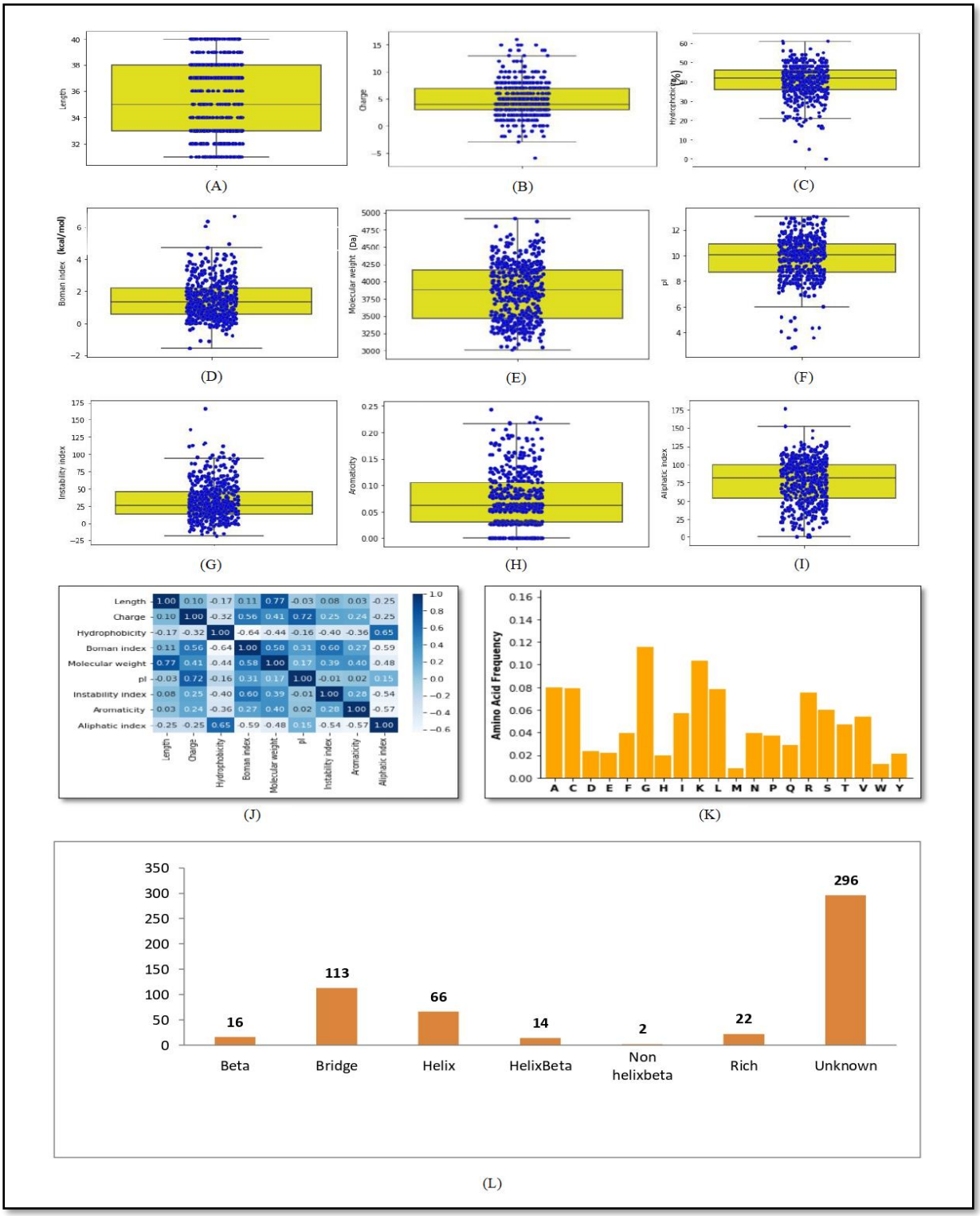


**Figure S4: Graphical profile of natural AMPs subset 31-40. (A)** Distribution of length **(B)** charge **(C)** hydrophobicity **(D)** Boman index **(E)** molecular weight **(F)** pI **(G)** instability index **(H)** aromaticity **(I)** aliphatic index **(J)** correlation heatmap **(K)** amino acid frequency, and **(L)** structure type in natural AMPs subset 31-40.

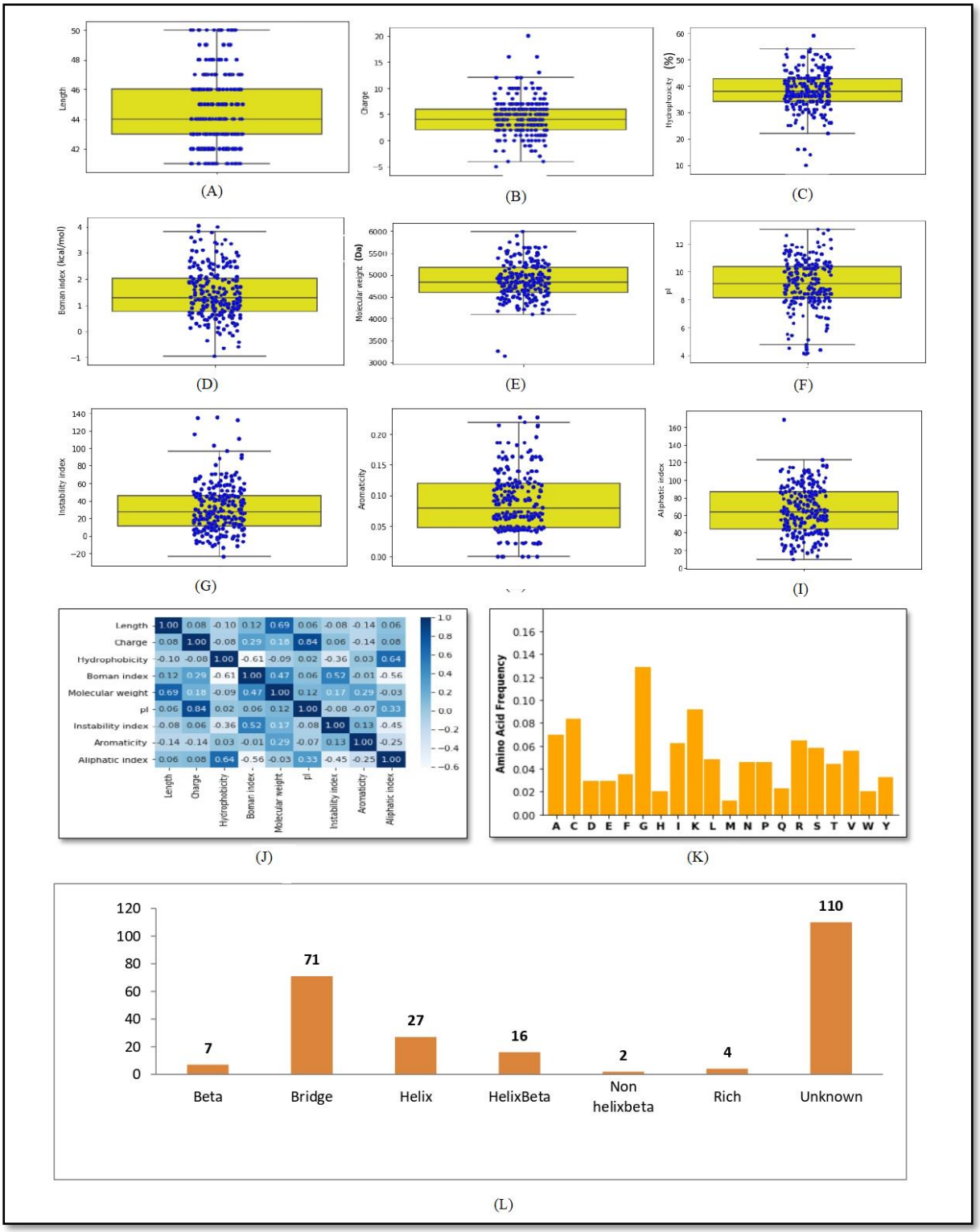


**Figure S5: Graphical profile of natural AMPs subset 41-50. (A)** Distribution of length **(B)** charge **(C)** hydrophobicity **(D)** Boman index **(E)** molecular weight **(F)** pI **(G)** instability index **(H)** aromaticity **(I)** aliphatic index **(J)** correlation heatmap **(K)** amino acid frequency, and **(L)** structure type in natural AMPs subset 41-50.

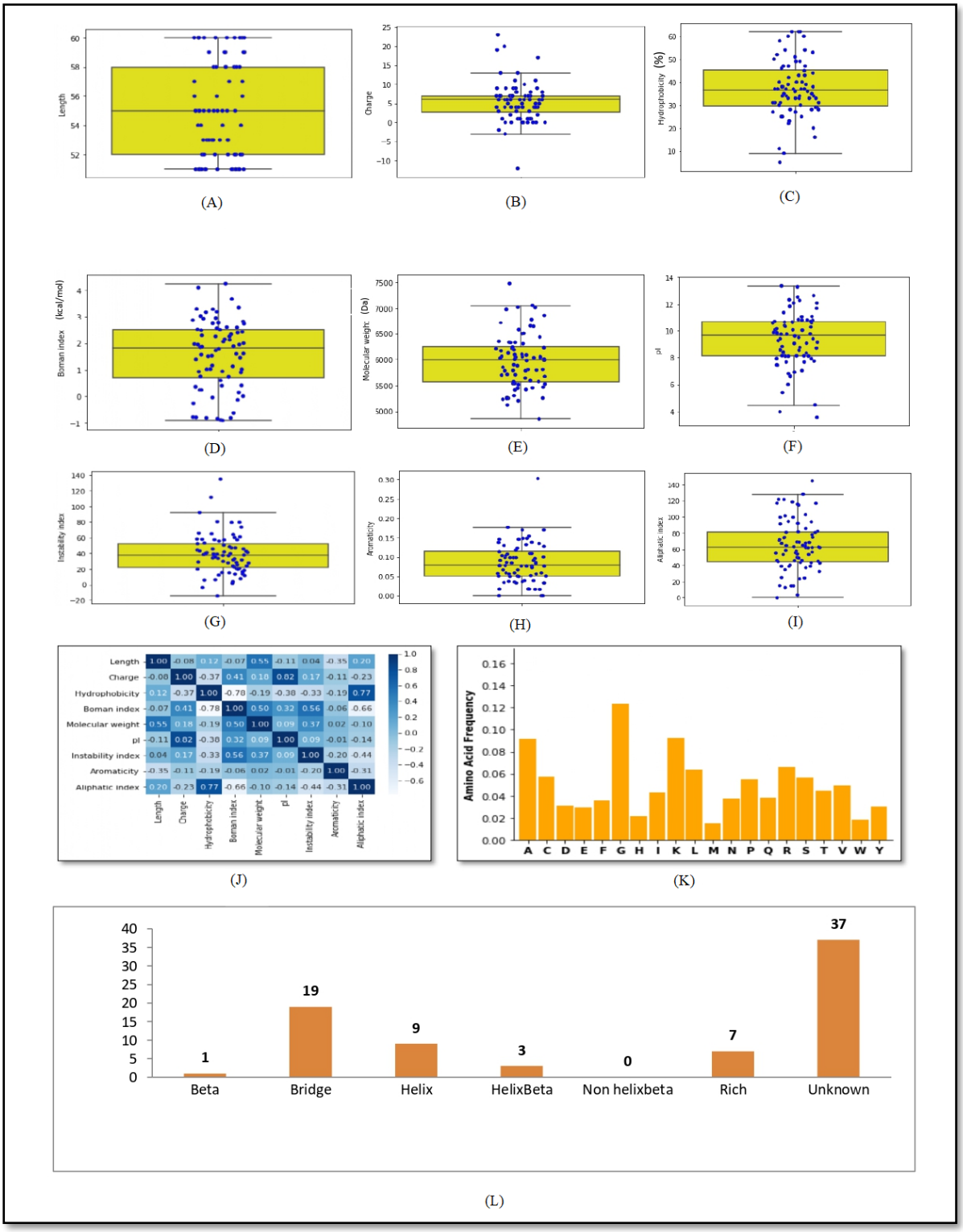


**Figure S6: Graphical profile of natural AMPs subset 51-60. (A)** Distribution of length **(B)** charge **(C)** hydrophobicity **(D)** Boman index **(E)** molecular weight **(F)** pI **(G)** instability index **(H)** aromaticity **(I)** aliphatic index **(J)** correlation heatmap **(K)** amino acid frequency, and **(L)** structure type in natural AMPs subset 51-60.

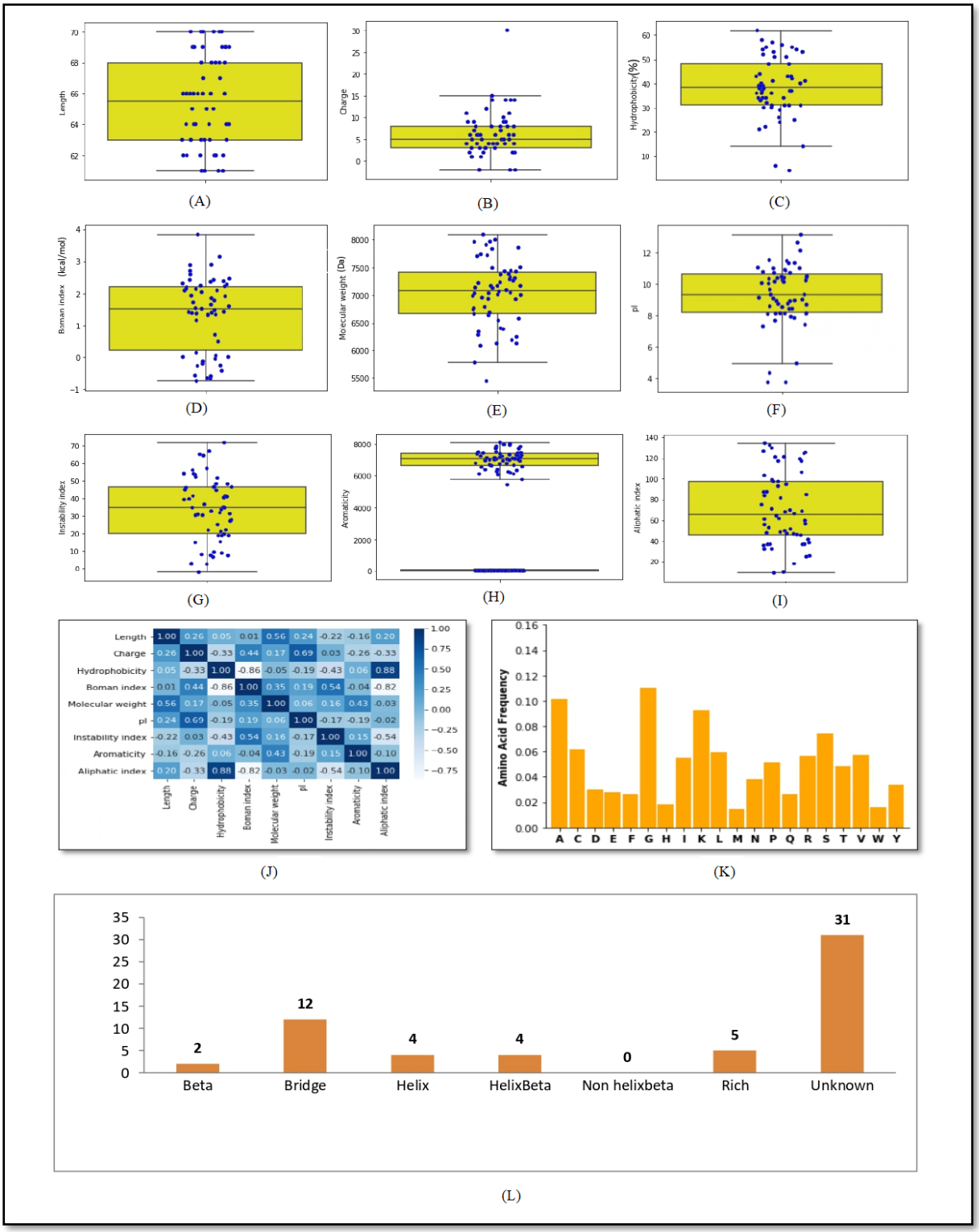


**Figure S7: Graphical profile of natural AMPs subset 61-70. (A)** Distribution of length **(B)** charge **(C)** hydrophobicity **(D)** Boman index **(E)** molecular weight **(F)** pI **(G)** instability index **(H)** aromaticity **(I)** aliphatic index **(J)** correlation heatmap **(K)** amino acid frequency, and **(L)** structure type in natural AMPs subset 61-70.

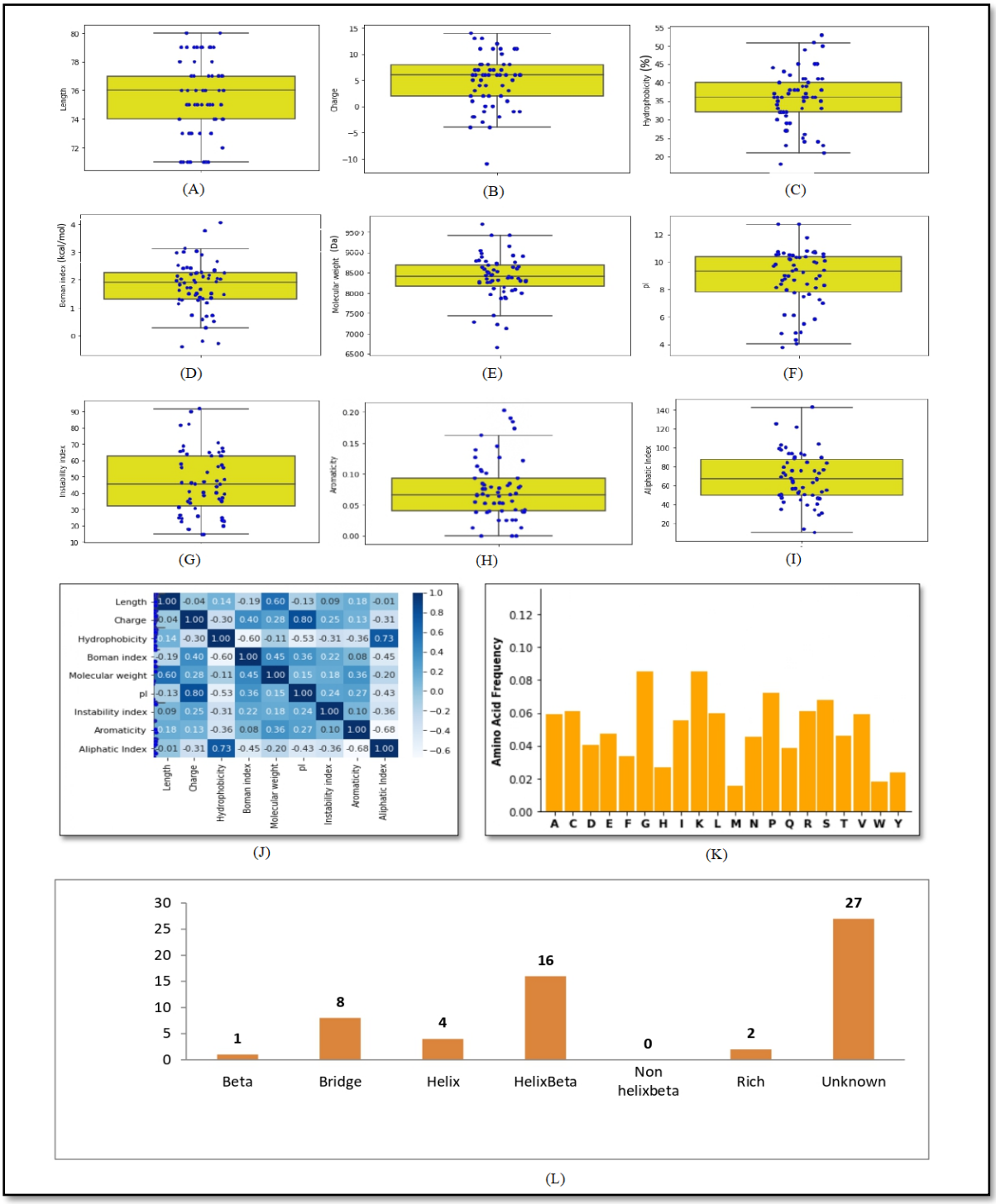


**Figure S8: Graphical profile of natural AMPs subset 71-80. (A)** Distribution of length **(B)** charge **(C)** hydrophobicity **(D)** Boman index **(E)** molecular weight **(F)** pI **(G)** instability index **(H)** aromaticity **(I)** aliphatic index **(J)** correlation heatmap **(K)** amino acid frequency, and **(L)** structure type in natural AMPs subset 71-80.

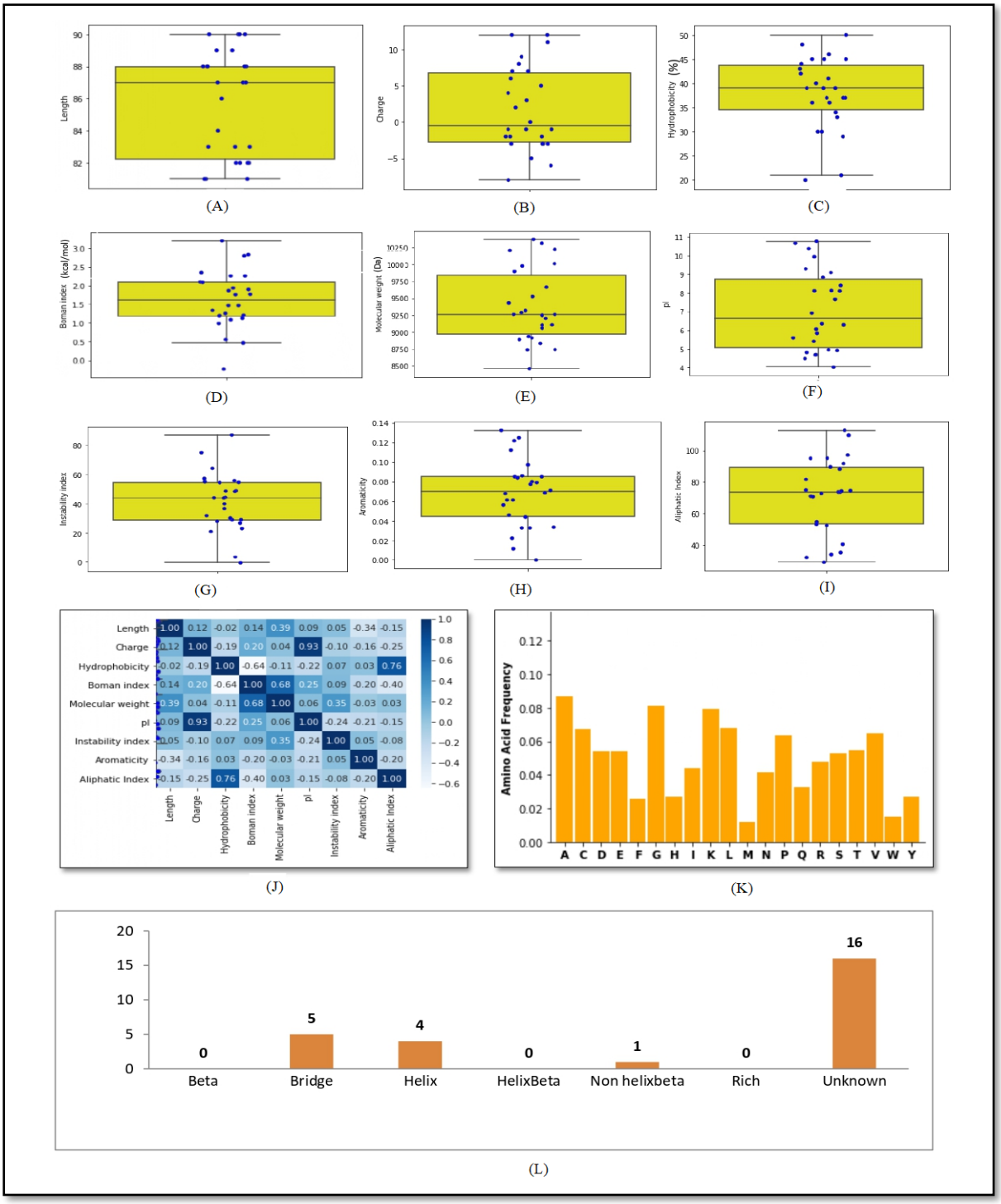


**Figure S9: Graphical profile of natural AMPs subset 81-90. (A)** Distribution of length **(B)** charge **(C)** hydrophobicity **(D)** Boman index **(E)** molecular weight **(F)** pI **(G)** instability index **(H)** aromaticity **(I)** aliphatic index **(J)** correlation heatmap **(K)** amino acid frequency, and **(L)** structure type in natural AMPs subset 81-90.

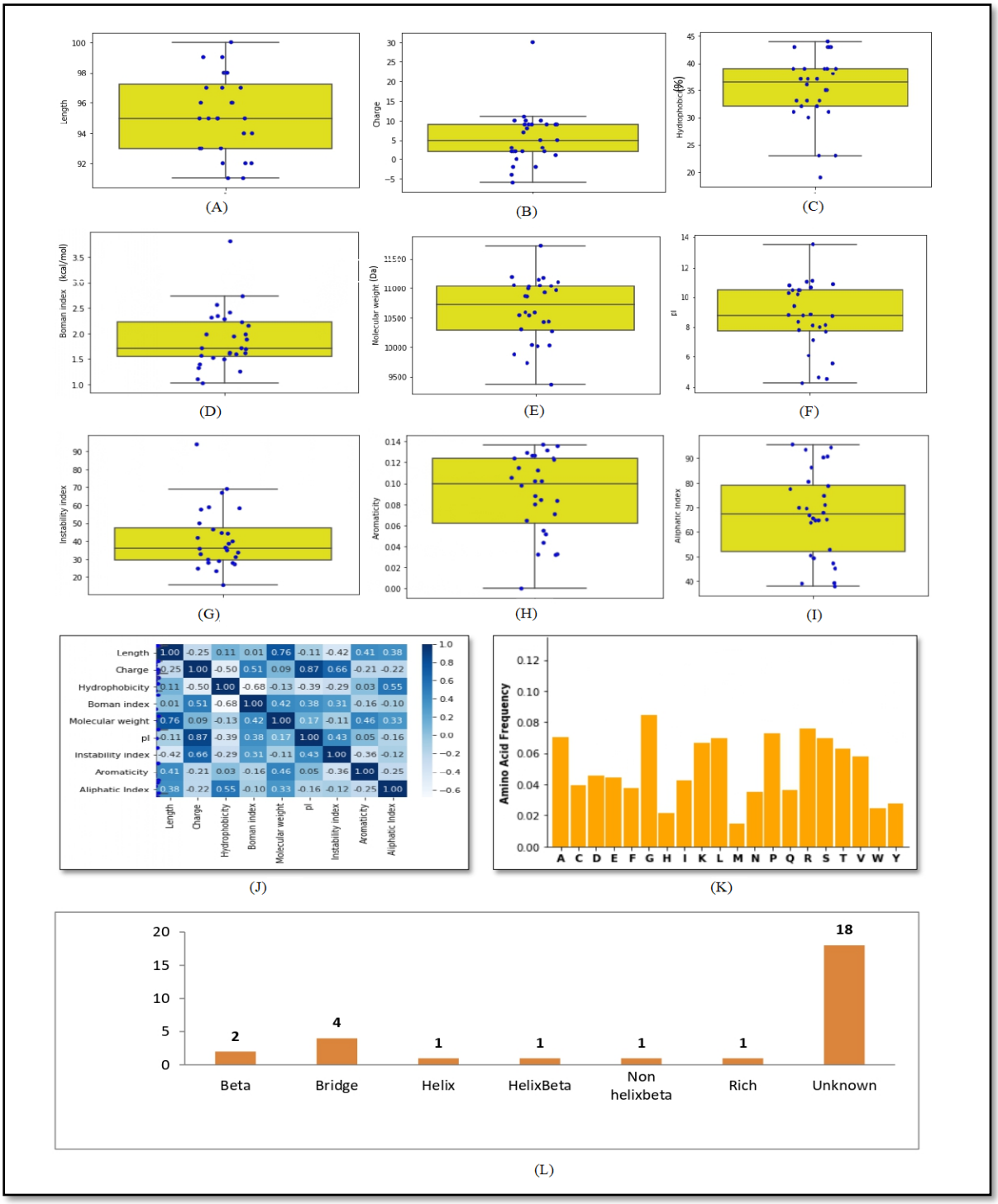


**Figure S10: Graphical profile of natural AMPs subset 91-100. (A)** Distribution of length **(B)** charge **(C)** hydrophobicity **(D)** Boman index **(E)** molecular weight **(F)** pI **(G)** instability index **(H)** aromaticity **(I)** aliphatic index **(J)** correlation heatmap **(K)** amino acid frequency, and **(L)** structure type in natural AMPs subset 91-100.

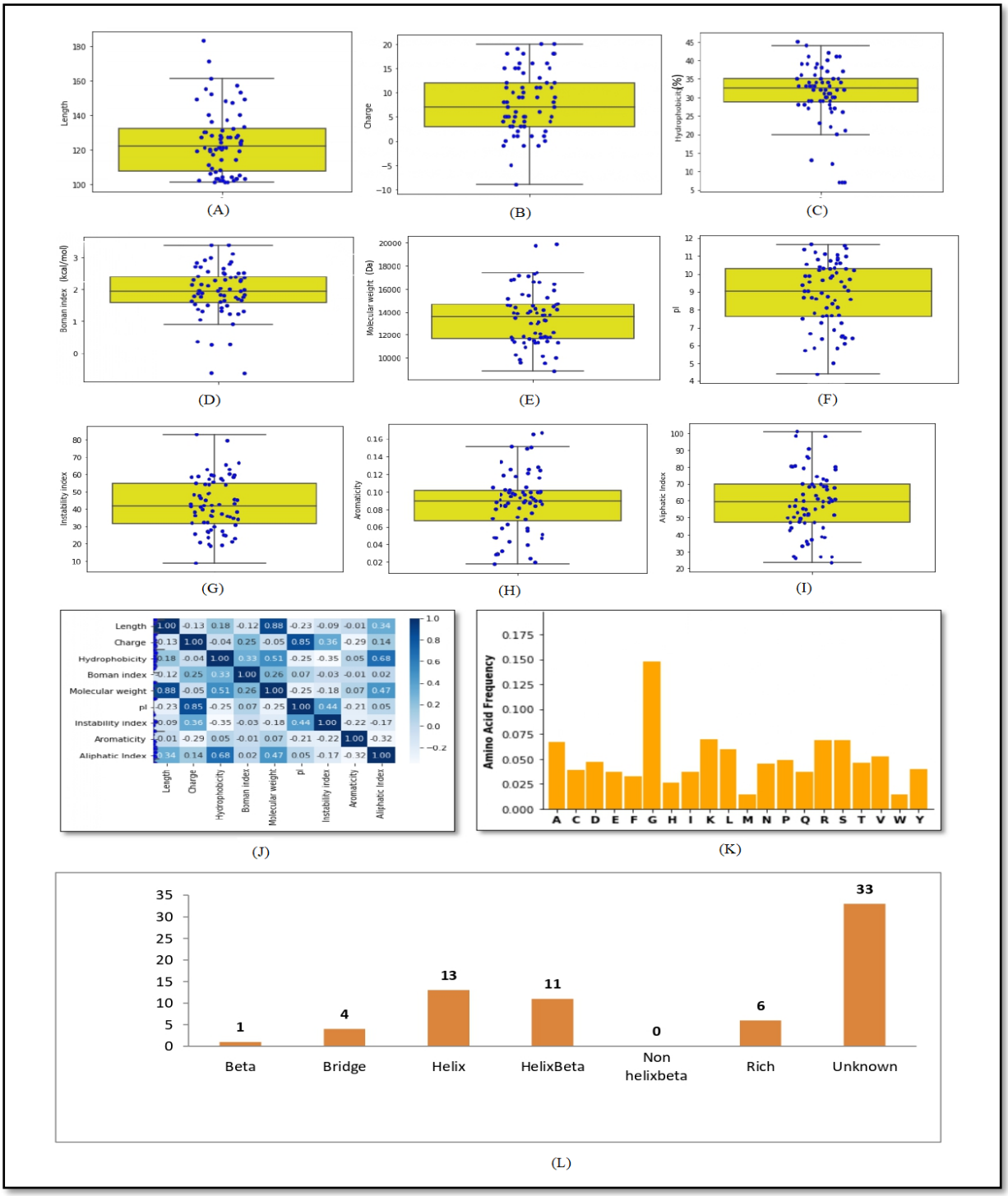


**Figure S11: Graphical profile of natural AMPs subset >100. (A)** Distribution of length **(B)** charge **(C)** hydrophobicity **(D)** Boman index **(E)** molecular weight **(F)** pI **(G)** instability index **(H)** aromaticity **(I)** aliphatic index **(J)** correlation heatmap **(K)** amino acid frequency, and **(L)** structure type in natural AMPs subset >100.