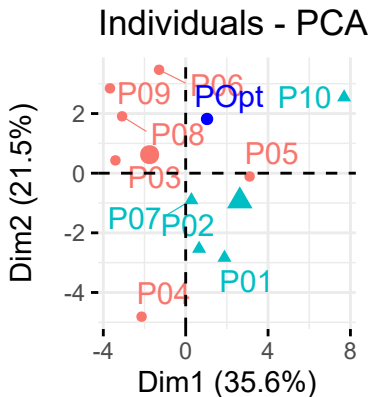


Individuals - PCA

Dim2 (21.5%)

Dim1 (35.6%)

Scatter plot showing the first two principal components (Dim1 and Dim2) for individuals. The x-axis is Dim1 (35.6%) and the y-axis is Dim2 (21.5%). Points are colored by group: red (P01, P02, P03, P04, P05, P06, P08, P09), blue (POpt), and cyan (P07, P10). Dashed lines represent the axes.



**Individuals - PCA**

**Protein**

- Protein\_High (Red circle)
- Protein\_Low (Teal triangle)

**Fiber**

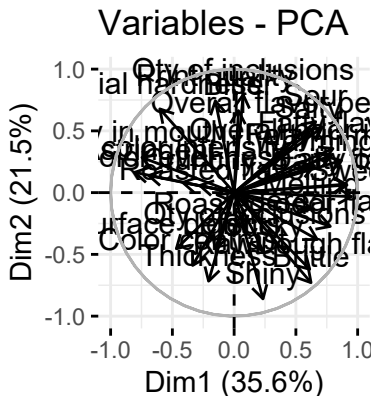
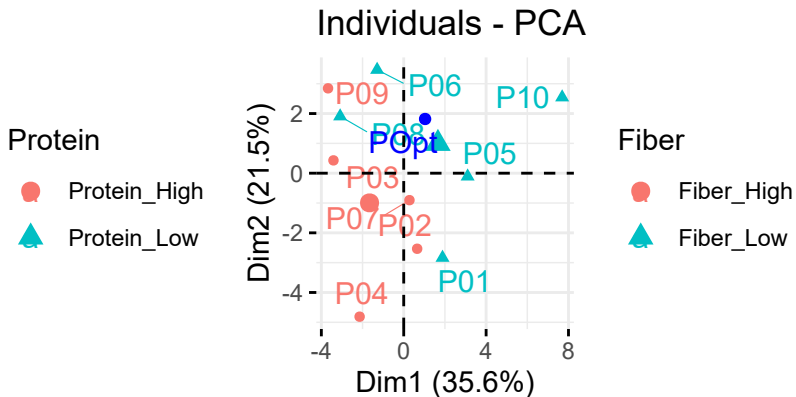
- Fiber\_High (Red circle)
- Fiber\_Low (Teal triangle)

Dim1 (35.6%)

Dim2 (21.5%)

Individuals: P01, P02, P03, P04, P05, P06, P07, P08, P09, P10

The plot shows a clear separation of individuals based on their Protein and Fiber levels. Protein\_High individuals (red circles) are clustered on the left (negative Dim1), while Protein\_Low individuals (teal triangles) are clustered on the right (positive Dim1). Fiber\_High individuals (red circles) are clustered in the center, while Fiber\_Low individuals (teal triangles) are clustered on the right. The dashed lines represent the mean values for each variable.



PCA - Biplot

Dim2 (21.5%)

Dim1 (35.6%)

Sensory attributes (vectors):

- Overall flavor
- Sour persistence
- Optimal flavor
- Overly rich mouth
- Overly thick
- Overly heavy
- Overly salty
- Overly sweet
- Overly bitter
- Overly acidic
- Overly fatty
- Overly greasy
- Overly sticky
- Overly chewy
- Overly crunchy
- Overly soft
- Overly hard
- Overly moist
- Overly dry
- Overly bland
- Overly strong
- Overly weak
- Overly sharp
- Overly smooth
- Overly rough
- Overly tender
- Overly tough
- Overly delicate
- Overly robust
- Overly refined
- Overly rustic
- Overly elegant
- Overly rustic
- Overly modern
- Overly traditional
- Overly innovative
- Overly classic
- Overly contemporary
- Overly experimental
- Overly adventurous
- Overly conservative
- Overly bold
- Overly subtle
- Overly complex
- Overly simple
- Overly balanced
- Overly unbalanced
- Overly harmonious
- Overly disharmonious
- Overly cohesive
- Overly disjointed
- Overly unified
- Overly fragmented
- Overly integrated
- Overly separated
- Overly blended
- Overly distinct
- Overly indistinct
- Overly clear
- Overly murky
- Overly bright
- Overly dull
- Overly vibrant
- Overly muted
- Overly lively
- Overly lifeless
- Overly energetic
- Overly sluggish
- Overly dynamic
- Overly static
- Overly active
- Overly passive
- Overly assertive
- Overly reserved
- Overly outgoing
- Overly introverted
- Overly extroverted
- Overly confident
- Overly insecure
- Overly assertive
- Overly reserved
- Overly outgoing
- Overly introverted
- Overly extroverted
- Overly confident
- Overly insecure

Principal components (points):

- P09
- P08
- P10
- P04

