## Additional file 9: Figure S3.

A



- High Responder


## C

## E

|  | AX | MCC |  |
| :---: | :---: | :---: | :---: |
| Satiety After a Meal (AUC) | 0.95 | - | - Diff. Abundant Active ASVs |
|  | 0.84 | - |  |
| HOMA-IR (\% $\%$ ) | 0.70 |  | - $\triangle$ Prevalent Bile Acids |
| Fecal Calprotectin (\% $\%$ ) |  | 0.72 | - $\triangle$ Responsive Bile Acids |
| TNF- $\alpha$ (\% $)^{\text {) }}$ |  | 0.73 | -BL Macronutrients |

F $\begin{gathered}\text { AX - Outcome: Satiety After a Meal (AUC) } \\ \text { Predictors: Diff. Abundant Metabolically Active ASVs }\end{gathered}$


|  | Confusion Matrix Actual |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | High | Low | Error Rate |
| . | High | 7 | 1 | 12.5\% |
| - | Low | 2 | 5 | 28.6\% |

H
AX - Outcome: HOMA-IR (\% $\boldsymbol{\Delta}$ )
Predictors: $\Delta$ Prevalent Bile Acids


|  | Confusion Matrix Actual |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | High | Low | Error Rate |
| - | High | 5 | 3 | 37.5\% |
| - | Low | 2 | 5 | 28.6\% |

J MCC - Endpoint: TNF- $\boldsymbol{\alpha}$ (\% $\boldsymbol{\Delta}$ )
Predictors: BL Kcal-Adj. Macronutrient Intake


Confusion Matrix

|  | Confusion Matrix Actual |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | High | Low | Error Rate |
| - | High | 5 | 3 | 37.5\% |
| - | Low | 2 | 6 | 25.0\% |

B


Low Responder


D
Microcrystalline Cellulose
Fecal Calprotectin $(\% \Delta)$ TNF- $\alpha$ (\% $\%$ ) 0.50
AX - Outcome: Satiety After a Meal (AUC) Predictors: All Metabolically Active ASVs

Confusion Matrix
Actual

MCC - Outcome: Fecal Calprotectin (\% $\Delta$ ) Predictors: $\Delta$ Responsive Bile Acids


|  | Confusion Matrix Actual |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| O |  | High | Low | Error Rate |
| - | High | 5 | 3 | 37.5\% |
| ¢ | Low | 2 | 6 | 25.0\% |

