**Supplementary Figure 1** Concentrations of serum uromodulin and adipokines stratified by type 2 diabetes.

****

**Supplementary Table 1** Association estimates between eGFR and adipokines: β coefficients ± standard errors from linear regression models are given per standard deviation of eGFR and adipokines.

|  |  |  |
| --- | --- | --- |
|  | Adjustment for age, sex, BMI and type 2 diabetes | Adjustment for age, sex, BMI, type 2 diabetes and serum uromodulin |
| Chemerin | -0.28 ± 0.03 \*\*\* | **-0.24 ± 0.03 \*\*\*** |
| Retinol-binding protein-4 | -0.44 ± 0.03 \*\*\* | **-0.38 ± 0.03 \*\*\*** |
| Leptin | -0.13 ± 0.02 \*\*\* | **-0.12 ± 0.02 \*\*\*** |
| Adiponectin | 0.03 ± 0.03 | 0.01 ± 0.03 |
| Progranulin | -0.10 ± 0.04 \* | -0.10 ± 0.04 \* |
| Omentin-1 | -0.07 ± 0.03 \* | -0.07 ± 0.03 \* |
| Secreted frizzled-related protein 5 | -0.19 ± 0.03 \*\*\* | **-0.18 ± 0.03 \*\*\*** |
| Vaspin | 0.01 ± 0.04 | 0.01 ± 0.04 |

\* p < 0.05; \*\* p < 0.01; \*\*\* p < 0.001;

bold print indicates significance in the fully adjusted model after correcting for multiple testing using the Bonferroni method (p < 0.00625 (0.05 ÷ 8)).

**Supplementary Table 2** Association estimates between eGFR and chemerin and retinol-binding protein-4, respectively, stratified by diabetes: β coefficients ± standard errors from linear regression models are given per standard deviation of eGFR and chemerin and retinol-binding protein-4, respectively.

|  |  |  |  |
| --- | --- | --- | --- |
| Stratification | Adjustments | Chemerin | Retinol-binding protein-4 |
| Without diabetes | Adjustment for age, sex and BMI | **-0.24 ± 0.04 \*\*\*** | **-0.44 ± 0.03 \*\*\*** |
| Type 2 diabetes | **-0.40 ± 0.06 \*\*\*** | **-0.44 ± 0.07 \*\*\*** |
| p interaction type 2 diabetes | 0.109 | 0.596 |

\*\*\* p < 0.001;

bold print indicates significance in the fully adjusted model after correcting for multiple testing using the Bonferroni method (p < 0.0125 for the β estimates (0.05 ÷ 4)).

**Supplementary Table 3** Adjusted ORs (95% CI) for type 2 diabetes as dependent variable (with normal glucose tolerance/prediabetes as reference) in dependence of serum uromodulin (sUmod), the ratio of serum uromodulin and chemerin (sUmod/chemerin) and the ratio of serum uromodulin and retinol-binding protein-4 (sUmod/RBP4), respectively (per standard deviation).

|  |  |  |  |
| --- | --- | --- | --- |
| Independent variable | Adjustments | OR (95% CI) for type 2 diabetes | p value |
| sUmod | Age, sex, BMI and eGFR (n = 806) | 0.77 (0.62-0.96) | 0.019 |
| Age, sex, BMI, eGFR and chemerin (n = 806) | 0.77 (0.62-0.95) | 0.017 |
| Age, sex, BMI and eGFR (n = 1080) | 0.72 (0.60-0.86) | < 0.001 |
| Age, sex, BMI, eGFR and retinol-binding protein-4 (n = 1080) | 0.74 (0.62-0.90) | 0.002 |
| sUmod/chemerin | Age, sex, BMI and eGFR (n = 806) | 0.79 (0.64-0.99) | 0.039 |
| sUmod/RBP4 | Age, sex, BMI and eGFR (n = 1080) | 0.71 (0.59-0.86) | < 0.001 |