Supplementary Table 1. 74 differentially expressed metabolites in the serum of EA and non-EA patients.

| Metabolites | $ESI^{+/-}$ | Super Class | VIP | FC | P-value |
|---|---|---|---|---|---|
| Threonic acid | negative | Organic oxygen compounds | 2.88 | 1.61 | 0.00 |
| Tiglylglycine | negative | Organic acids and derivatives | 2.67 | 2.31 | 0.02 |
| 4-Dodecylbenzenesulfonic Acid | negative | Benzenoids | 2.65 | 0.59 | 0.00 |
| Vanillic acid | negative | Benzenoids | 2.58 | 3.57 | 0.00 |
| N-Acetyl-L-phenylalanine | negative | Organic acids and derivatives | 2.57 | 1.56 | 0.00 |
| Phenylbutazone | negative | Benzenoids | 2.50 | 0.27 | 0.00 |
| Creatinine | negative | Organic acids and derivatives | 2.46 | 1.39 | 0.00 |
| myo-Inositol | negative | Organic oxygen compounds | 2.36 | 1.44 | 0.00 |
| Palmitoleic acid | negative | Lipids and lipid-like molecules | 2.34 | 1.84 | 0.02 |
| Pseudouridine | negative | Nucleosides, nucleotides, and analo | 2.21 | 1.25 | 0.00 |
| 5-Methoxysalicylic acid | negative | Benzenoids | 2.17 | 5.31 | 0.03 |
| Sunitinib | negative | Organoheterocyclic compounds | 2.17 | 1.92 | 0.01 |
| 24-Epibrassinolide | negative | Lipids and lipid-like molecules | 2.14 | 2.00 | 0.00 |
| 2-Hydroxy-3-methylbutyric acid | negative | Lipids and lipid-like molecules | 2.10 | 1.32 | 0.01 |
| Pyruvic acid | negative | Organic acids and derivatives | 2.02 | 1.24 | 0.01 |
| L-Phenylalanine | negative | Organic acids and derivatives | 1.90 | 1.24 | 0.01 |
| Ethyl stearate | negative | Lipids and lipid-like molecules | 1.88 | 0.75 | 0.03 |
| 5Z-Dodecenoic acid | negative | Lipids and lipid-like molecules | 1.81 | 1.55 | 0.05 |
| 3-Hydroxyisovaleric acid | negative | Lipids and lipid-like molecules | 1.80 | 1.30 | 0.04 |
| Deoxycholic acid | negative | Lipids and lipid-like molecules | 1.80 | 1.50 | 0.03 |
| Perfluorooctanesulfonic acid | negative | Organohalogen compounds | 1.78 | 2.21 | 0.01 |

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| Ribothymidine | negative | Nucleosides, nucleotides, and analo | 1.78 | 1.18 | 0.01 |
| Nitrofurazone | negative | Organoheterocyclic compounds | 1.78 | 1.20 | 0.04 |
| Ethyl dodecanoate | negative | Lipids and lipid-like molecules | 1.77 | 1.38 | 0.03 |
| Gamma-Linolenic acid | negative | Lipids and lipid-like molecules | 1.74 | 0.48 | 0.03 |
| N-Acetyl-L-methionine | negative | Organic acids and derivatives | 1.72 | 1.54 | 0.00 |
| Esculentic acid (Diplazium) | negative | Lipids and lipid-like molecules | 1.69 | 1.58 | 0.02 |
| Glyceraldehyde | negative | Organic oxygen compounds | 1.66 | 1.26 | 0.05 |
| Terephthalic acid | negative | Benzenoids | 1.63 | 1.07 | 0.05 |
| L-3-Phenyllactic acid | negative | Phenylpropanoids and polyketides | 1.63 | 1.96 | 0.02 |
| 9-Decenoic acid | negative | Lipids and lipid-like molecules | 1.60 | 1.29 | 0.02 |
| Myristic acid | negative | Lipids and lipid-like molecules | 1.58 | 1.20 | 0.01 |
| Deoxyuridine | negative | Nucleosides, nucleotides, and analo | 1.58 | 1.31 | 0.02 |
| Ethyl oleate | negative | Lipids and lipid-like molecules | 1.55 | 1.45 | 0.01 |
| Dibutyl phthalate | negative | Benzenoids | 1.50 | 8.10 | 0.00 |
| L-Norleucine | negative | Organic acids and derivatives | 1.50 | 1.18 | 0.04 |
| Cerulenin | negative | Organoheterocyclic compounds | 1.35 | 1.89 | 0.03 |
| 2-Ketohexanoic acid | negative | Organic acids and derivatives | 1.35 | 1.28 | 0.04 |
| LysoPE(18:1(9Z)/0:0) | negative | Lipids and lipid-like molecules | 1.32 | 0.73 | 0.03 |
| 3-Methoxy-4-hydroxyphenylethylen | negative | Organic acids and derivatives | 1.26 | 1.74 | 0.05 |
| N-Acetyl-L-alanine | negative | Organic acids and derivatives | 1.16 | 1.30 | 0.00 |
| Succinic anhydride | negative | Organoheterocyclic compounds | 1.14 | 1.78 | 0.04 |
| Creatinine | positive | Organic acids and derivatives | 2.05 | 1.16 | 0.02 |
| L-Gulose | positive | Organic oxygen compounds | 1.98 | 1.27 | 0.01 |

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| D-Alanine | positive | Organic acids and derivatives | 1.90 | 1.20 | 0.01 |
| Isoleucyl-Alanine | positive | Organic acids and derivatives | 1.38 | 0.51 | 0.00 |
| Kynurenic acid | positive | Organoheterocyclic compounds | 2.55 | 1.64 | 0.00 |
| N6-Methyladenosine | positive | Nucleosides, nucleotides, and analo | 2.78 | 1.21 | 0.00 |
| 1-Methylhypoxanthine | positive | Organoheterocyclic compounds | 2.13 | 1.32 | 0.02 |
| 3-Methylguanine | positive | Organoheterocyclic compounds | 2.23 | 1.20 | 0.02 |
| N-Acetylhistidine | positive | Organic acids and derivatives | 2.00 | 1.54 | 0.01 |
| 5-Ethyl-2,4-dimethyloxazole | positive | Organoheterocyclic compounds | 1.67 | 1.39 | 0.01 |
| Pirbuterol | positive | Organoheterocyclic compounds | 2.20 | 1.54 | 0.05 |
| LysoPE(18:1(9Z)/0:0) | positive | Lipids and lipid-like molecules | 1.69 | 0.69 | 0.04 |
| Octadecylamine | positive | Organonitrogen compounds | 1.85 | 0.70 | 0.01 |
| Palmitoylethanolamide | positive | Organic acids and derivatives | 1.28 | 1.40 | 0.04 |
| 5-Hydroxy-L-tryptophan | positive | Organoheterocyclic compounds | 1.32 | 1.20 | 0.04 |
| L-alpha-Aspartyl-L-hydroxyproline | positive | Organic acids and derivatives | 2.16 | 2.16 | 0.02 |
| 2-Methylbutyroylcarnitine | positive | Lipids and lipid-like molecules | 2.03 | 1.42 | 0.04 |
| 3-Dehydroxycarnitine | positive | Lipids and lipid-like molecules | 2.32 | 1.44 | 0.01 |
| Taurochenodeoxycholate-7-sulfate | positive | Lipids and lipid-like molecules | 2.06 | 0.50 | 0.03 |
| Formiminoglutamic acid | positive | Organic acids and derivatives | 2.55 | 1.81 | 0.00 |
| Epidermin | positive | Organic oxygen compounds | 2.74 | 1.41 | 0.00 |
| Candoxatril | positive | Benzenoids | 2.78 | 0.13 | 0.00 |
| Methylguanidine | positive | Organic nitrogen compounds | 1.94 | 1.34 | 0.03 |
| 8-Deoxy-11-hydroxy-13-chlorogros | positive | Lipids and lipid-like molecules | 1.02 | 1.89 | 0.03 |
| Linamarin | positive | Organic oxygen compounds | 2.39 | 1.38 | 0.03 |

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| PC(18:3(6Z,9Z,12Z)/20:4(5Z,8Z,11 | positive | Lipids and lipid-like molecules | 2.07 | 0.88 | 0.02 |
| PE(P-18:1(11Z)/16:0) | positive | Lipids and lipid-like molecules | 1.03 | 0.70 | 0.05 |
| PC(20:2(11Z,14Z)/P-18:0) | positive | Lipids and lipid-like molecules | 1.14 | 0.81 | 0.04 |
| Decanoylcarnitine | positive | Lipids and lipid-like molecules | 2.57 | 2.14 | 0.02 |
| N2,N2-Dimethylguanosine | positive | Nucleosides, nucleotides, and analo | 1.88 | 1.42 | 0.01 |
| Sertraline | positive | Benzenoids | 1.61 | 1.88 | 0.05 |
| PC(22:6(4Z,7Z,10Z,13Z,16Z,19Z)/1 | positive | Lipids and lipid-like molecules | 1.64 | 1.13 | 0.01 |

ESI, electrospray ionization; VIP, variable importance in the projection; FC, fold change.