

**Table S4.1. Total differential metabolites of serum and synovial fluid samples from RA-Cold and RA-Hot patients detected by LC/MS**

Sample type	Groups	tR(s)	m/z (Da)	Score	English Name	Molecular Formula	CAS No.	FC	P (T test)	VIP
Serum	cold vs. normal	196.510	129.057	0.980	4-Methyl-2-Oxovalerate	C <sub>6</sub> H <sub>10</sub> O <sub>3</sub>	4502-00-5	1.743	0.262	1.040
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	100.580	146.985	1.000	3-Acetyl-1,2-dithiolane	C <sub>5</sub> H <sub>8</sub> OS <sub>2</sub>	89712-89-0	1.771	0.073	1.709
Serum	cold vs. hot; cold vs. normal; cold vs. hot; RA vs. normal	299.710	213.025	0.280	Clofibrac acid Clofibrac acid (INN) CLOF	C <sub>10</sub> H <sub>11</sub> ClO <sub>3</sub>	882-09-7	1.855	0.168	1.318
Serum	cold vs. hot	346.820	227.131	0.060	Pro-Leu	C <sub>11</sub> H <sub>20</sub> N <sub>2</sub> O <sub>3</sub>	52899-07-7	1.652	0.063	1.635
Serum	RA vs. normal	391.840	239.062	0.440	Dinoterb 2-tert-butyl-4,6-dinitro-phenol P	C <sub>10</sub> H <sub>12</sub> N <sub>2</sub> O <sub>5</sub>	1420-07-1	1.572	0.138	1.047
Serum	cold vs. hot	397.720	267.131	0.570	3-carboxy-4-methyl-5-pentyl-2-furanprop	C <sub>14</sub> H <sub>20</sub> O <sub>5</sub>		2.477	0.076	1.594
Serum	cold vs. hot; RA vs. normal	636.580	371.223	0.650	5-Ethoxysorgoleone 358	C <sub>23</sub> H <sub>32</sub> O <sub>4</sub>	210708-13-	0.489	0.271	1.186
Serum	cold vs. hot	372.000	375.197	1.000	Fluoromethalone	C <sub>22</sub> H <sub>29</sub> FO <sub>4</sub>	426-13-1	1.753	0.322	1.007
Serum	cold vs. hot	569.090	415.226	0.700	Ramipril (USP/INN) Altace (TN) Ramipr	C <sub>23</sub> H <sub>32</sub> N <sub>2</sub> O <sub>5</sub>	87333-19-5	0.716	0.060	1.648
Serum	hot vs. normal; RA vs. normal	582.720	417.317	0.580	β-Citraurinenene	C <sub>30</sub> H <sub>42</sub> O	58947-97-0	1.587	0.100	1.026
Serum	cold vs. normal	614.070	479.342	0.870	24-epi-Brassinolide Brassinolide 2,4-Epit	C <sub>28</sub> H <sub>48</sub> O <sub>6</sub>	78821-43-9 72962-43-7	2.169	0.141	1.299
Serum	cold vs. normal; hot vs. normal; RA vs. normal	441.980	507.277	1.000	LPG 18:2	C <sub>24</sub> H <sub>45</sub> O <sub>9</sub> P		1.644	0.187	1.201
Serum	cold vs. normal	862.080	572.501	1.000	Cer-NS d37:4 Cer-NS d24:3/13:1 Cer NS	C <sub>37</sub> H <sub>67</sub> NO <sub>3</sub>		0.543	0.344	1.150
Serum	cold vs. normal; hot vs. normal; RA vs. normal	815.730	762.516	0.380	Phosphatidylethanolamine 18:2-20:4	C <sub>43</sub> H <sub>74</sub> NO <sub>8</sub> P		1.875	0.131	1.375
Serum	cold vs. hot	747.090	778.595	0.920	Cer-BDS d47:9 Cer_BS d20:2/27:7 Cer I	C <sub>47</sub> H <sub>77</sub> NO <sub>4</sub>		0.739	0.526	1.024
Serum	cold vs. hot; RA vs. normal	851.460	789.618	0.210	Sphingomyelin d18:1-C18:0	C <sub>41</sub> H <sub>83</sub> N <sub>2</sub> O <sub>6</sub> P	54336-69-5	1.305	0.329	1.030
Serum	cold vs. normal	848.710	790.593	0.670	Cer-BDS d48:10 Cer_BS d21:3/27:7 Cer C	C <sub>48</sub> H <sub>77</sub> NO <sub>4</sub>		0.507	0.314	1.002
Serum	hot vs. normal	716.520	819.496	0.460	PI 33:2 PI 16:1-17:1 PI(16:1/17:1)	C <sub>42</sub> H <sub>77</sub> O <sub>13</sub> P		1.230	0.030	1.344
Serum	cold vs. normal	887.920	819.622	0.250	Phosphatidylcholine alkyl 18:0-22:6	C <sub>48</sub> H <sub>86</sub> NO <sub>7</sub> P	139406-71-	0.715	0.367	1.163
Serum	cold vs. normal	752.080	835.527	0.900	Roxithromycin	C <sub>41</sub> H <sub>76</sub> N <sub>2</sub> O <sub>15</sub>	80214-83-1	2.210	0.139	1.293
Serum	cold vs. hot	926.480	858.630	1.000	HexCer-AP t39:2 HexCer-AP t20:1/19:1	C <sub>45</sub> H <sub>85</sub> NO <sub>10</sub>		0.204	0.272	1.082
Serum	cold vs. normal	812.940	862.561	0.920	Phosphatidylcholine 16:0-22:7	C <sub>47</sub> H <sub>80</sub> NO <sub>8</sub> P		2.598	0.017	1.978
Serum	hot vs. normal; RA vs. normal	471.580	870.540	0.870	Phosphatidylglyceride 22:6-22:4	C <sub>50</sub> H <sub>79</sub> O <sub>10</sub> P		1.591	0.057	1.219
Serum	cold vs. normal; RA vs. normal	745.820	881.527	0.310	Phosphatidylinositol 18:1-20:5	C <sub>47</sub> H <sub>79</sub> O <sub>13</sub> P		4.555	0.011	2.018
synovial fluid	cold vs. normal	350.230	329.235	0.950	9,10,13-TriHOME 9,10,13-Trihydroxyc	C <sub>18</sub> H <sub>34</sub> O <sub>5</sub>	29907-57-1	0.185	0.014	1.105
synovial fluid	cold vs. hot	351.910	448.308	1.000	Glycoeoxycholic acid	C <sub>26</sub> H <sub>43</sub> NO <sub>5</sub>	360-65-6	0.446	0.049	1.105
synovial fluid	RA vs. normal	352.050	464.303	0.970	Glycocholic acid	C <sub>26</sub> H <sub>43</sub> NO <sub>6</sub>	475-31-0	2.734	0.085	1.385
synovial fluid	cold vs. normal; hot vs. normal; RA vs. normal	352.390	188.953	1.000	Bromobenzene-3,4-dihydrodiol 4-Bromo-	C <sub>6</sub> H <sub>7</sub> BrO <sub>2</sub>	82683-93-0	0.071	0.033	1.252
synovial fluid	RA vs. normal	352.660	465.251	0.980	Androsterone glucuronide Androsterone	C <sub>25</sub> H <sub>38</sub> O <sub>8</sub>	1852-43-3 32.484		0.060	1.240
synovial fluid	cold vs. hot; cold vs. normal; cold vs. normal; hot vs. normal	353.930	395.190	0.960	3β-Hydroxypregn-5-en-20-one sulfate Pr	C <sub>21</sub> H <sub>32</sub> O <sub>5</sub> S	1247-64-9	0.492	0.112	1.019
synovial fluid	cold vs. hot; cold vs. normal; cold vs. normal; hot vs. normal	378.530	581.242	0.700	Biliverdin	C <sub>33</sub> H <sub>34</sub> N <sub>4</sub> O <sub>6</sub>	114-25-0	0.065	0.007	1.188
synovial fluid	cold vs. normal	419.270	476.280	0.930	LysoPE(18:2(9Z,12Z)/0:0) PE(18:2(9Z,1	C <sub>23</sub> H <sub>44</sub> NO <sub>7</sub> P	85046-18-0	0.462	0.017	1.137

synovial fluid	cold vs. normal	471.450	502.294	0.910	lysoPE 20:3	C <sub>25</sub> H <sub>46</sub> NO <sub>7</sub> P	2.079	0.004	1.323	
synovial fluid	RA vs. normal	472.100	522.285	0.710	PS(18:1(9Z)/0:0)	C <sub>24</sub> H <sub>46</sub> NO <sub>9</sub> P	2.663	0.127	1.027	
synovial fluid	cold vs. normal	497.840	297.244	0.880	cis-9,10-Epoxystearic acid	C <sub>18</sub> H <sub>34</sub> O <sub>3</sub>	2443-39-2	0.312	0.021	1.072
synovial fluid	hot vs. normal; RA vs. normal; cold vs. normal; hot vs. normal	158.640	172.992	0.700	Aryl sulfate Phenol sulfate Phenylsulfate	C <sub>6</sub> H <sub>6</sub> O <sub>4</sub> S	937-34-8	2.500	0.120	1.004
synovial fluid	hot vs. normal; RA vs. normal; cold vs. normal; hot vs. normal	526.490	295.229	1.000	Vernolic acid(9Z)-(12S,13R)-12,13-Epo-	C <sub>18</sub> H <sub>32</sub> O <sub>3</sub>	503-07-1	0.424	0.143	1.052
synovial fluid	cold vs. hot	165.090	212.003	0.960	Indoxyl sulfate	C <sub>8</sub> H <sub>7</sub> NO <sub>4</sub> S	2642-37-7	2.440	0.039	1.152
synovial fluid	cold vs. hot	178.500	263.105	0.900	Phenylacetyl-L-glutamine	C <sub>13</sub> H <sub>16</sub> N <sub>2</sub> O <sub>4</sub>	28047-15-6	3.012	0.032	1.191
synovial fluid	RA vs. normal	563.360	490.332	0.770	CerP 25:1	C <sub>25</sub> H <sub>50</sub> NO <sub>6</sub> P	2.064	0.075	1.074	
synovial fluid	hot vs. normal; RA vs. normal; cold vs. normal; hot vs. normal	565.000	297.244	0.710	3-Oxooctadecanoic acid 3-keto stearic ac	C <sub>18</sub> H <sub>34</sub> O <sub>3</sub>	0.361	0.026	1.123	
synovial fluid	hot vs. normal; RA vs. normal; cold vs. normal; hot vs. normal	577.490	277.218	1.000	(9Z,11E,13E)-Octadecatrienoic acid(9Z,	C <sub>18</sub> H <sub>30</sub> O <sub>2</sub>	544-72-9 500.172	0.002	1.289	
synovial fluid	cold vs. normal	589.040	473.284	1.000	Pubescenol	C <sub>28</sub> H <sub>42</sub> O <sub>6</sub>	90685-93-1	0.389	0.012	1.208
synovial fluid	cold vs. normal; hot vs. normal; cold vs. normal; hot vs. normal	594.040	253.218	1.000	Hypogeic acid cis-7-Hexadecenoic Acid	C <sub>16</sub> H <sub>30</sub> O <sub>2</sub>	2416-19-5	0.149	0.004	1.229
synovial fluid	cold vs. normal; hot vs. normal; cold vs. normal; hot vs. normal	594.980	354.296	0.630	Pristanoylglycine	C <sub>21</sub> H <sub>41</sub> NO <sub>3</sub>	0.298	0.003	1.331	
synovial fluid	hot vs. normal	599.220	407.154	0.660	Beclomethasone	C <sub>22</sub> H <sub>29</sub> ClO <sub>5</sub>	4419-39-0	0.290	0.004	1.099
synovial fluid	RA vs. normal	605.000	494.361	0.970	lysoPE 20:0 PE(O-20:0/0:0)	C <sub>25</sub> H <sub>54</sub> NO <sub>6</sub> P	2.097	0.075	1.139	
synovial fluid	cold vs. hot	216.980	187.008	0.710	p-Tolyl Sulfate	C <sub>7</sub> H <sub>8</sub> O <sub>4</sub> S	91978-69-7	4.715	0.033	1.188
synovial fluid	cold vs. normal; hot vs. normal; RA vs. normal	613.290	380.161	0.710	Azelastine Azelastrine (INN) Optivar (TN	C <sub>22</sub> H <sub>24</sub> ClN <sub>3</sub> O	58581-89-8	0.403	0.008	1.148
synovial fluid	cold vs. normal; hot vs. normal; RA vs. normal	613.310	279.234	1.000	β-Linoleic acid	C <sub>18</sub> H <sub>32</sub> O <sub>2</sub>	60-33-3	0.203	0.024	1.105
synovial fluid	cold vs. normal; hot vs. normal; RA vs. normal	619.710	518.363	0.900	CerP 27:1	C <sub>27</sub> H <sub>54</sub> NO <sub>6</sub> P	2.601	0.006	1.076	
synovial fluid	cold vs. normal; hot vs. normal; RA vs. normal	637.280	255.234	0.610	Palmitic acid	C <sub>16</sub> H <sub>32</sub> O <sub>2</sub>	#####	0.244	0.015	1.154
synovial fluid	cold vs. normal; hot vs. normal; RA vs. normal	637.730	355.159	0.640	Rutamarin Chalepin acetate	C <sub>21</sub> H <sub>24</sub> O <sub>5</sub>	14882-94-1	0.466	0.001	1.382
synovial fluid	cold vs. normal; hot vs. normal; RA vs. normal	638.530	329.249	0.990	All-cis-4,7,10,13,16-docosapentaenoic ac	C <sub>22</sub> H <sub>34</sub> O <sub>2</sub>	25182-74-5	0.415	0.082	1.025
synovial fluid	cold vs. normal; hot vs. normal; RA vs. normal	653.880	442.091	0.810	N-debutylhalofantrine	C <sub>22</sub> H <sub>22</sub> Cl <sub>2</sub> F <sub>3</sub> NO	0.307	0.006	1.215	
synovial fluid	cold vs. normal; hot vs. normal; RA vs. normal	654.580	281.250	1.000	trans-9-Octadecenoic acid	C <sub>18</sub> H <sub>34</sub> O <sub>2</sub>	112-79-8	0.117	0.049	1.051
synovial fluid	cold vs. normal; hot vs. normal; RA vs. normal	654.610	381.175	0.640	Corticosterone 11beta,21-Dihydroxy-4-pi	C <sub>21</sub> H <sub>30</sub> O <sub>4</sub>	50-22-6	0.328	0.001	1.375
synovial fluid	cold vs. normal; hot vs. normal; RA vs. normal	656.950	331.265	1.000	FA 22:4	C <sub>22</sub> H <sub>36</sub> O <sub>2</sub>	0.362	0.051	1.101	
synovial fluid	cold vs. normal; hot vs. normal; RA vs. normal	678.160	546.395	0.940	CerP 29:1	C <sub>29</sub> H <sub>58</sub> NO <sub>6</sub> P	2.288	0.009	1.042	
synovial fluid	RA vs. normal	761.150	833.522	1.000	PI 34:2	C <sub>43</sub> H <sub>79</sub> O <sub>13</sub> P	0.451	0.047	1.056	
synovial fluid	RA vs. normal	827.560	739.514	0.760	Phosphatidylethanolamine 16:0-20:4 Pho	C <sub>41</sub> H <sub>74</sub> NO <sub>8</sub> P	0.443	0.007	1.212	
synovial fluid	cold vs. normal; RA vs. normal	829.770	580.496	0.780	Cer-NS d34:2; Cer-NS d19:1/15:1	C <sub>34</sub> H <sub>65</sub> NO <sub>3</sub>	0.363	0.045	1.069	
synovial fluid	cold vs. normal	844.100	774.542	0.710	PE 40:7e PE 18:5e/22:2 EtherPE 40:7e P	C <sub>45</sub> H <sub>78</sub> NO <sub>7</sub> P	0.403	0.017	1.109	
synovial fluid	cold vs. hot	294.040	383.154	0.950	19-hydroxy-17-oxoandrost-5-en-3-β-yl st	C <sub>19</sub> H <sub>28</sub> O <sub>6</sub> S	0.346	0.130	1.037	
synovial fluid	cold vs. normal	865.780	814.597	1.000	HexCer-ADS d37:2 HexCer-ADS d19:0/	C <sub>43</sub> H <sub>81</sub> NO <sub>9</sub>	0.495	0.021	1.071	
synovial fluid	cold vs. normal; RA vs. normal	868.740	736.531	0.940	HexCer-AS d36:4; HexCer-AS d23:3/13:	C <sub>42</sub> H <sub>75</sub> NO <sub>9</sub>	0.441	0.060	1.052	

synovial fluid	cold vs. normal	884.030	764.584	0.940	Cer-BDS d46:9 Cer_BS d22:3/24:6 Cer[IC <sub>46</sub> H <sub>75</sub> NO <sub>4</sub>	3.051	0.020	1.082	
synovial fluid	cold vs. hot	887.290	700.531	0.910	HexCer-AS d33:1 HexCer-AS d21:1/12:(C <sub>39</sub> H <sub>75</sub> NO <sub>9</sub>	2.666	0.059	1.061	
synovial fluid	cold vs. normal; hot vs. normal	890.380	776.562	0.980	HexCer-AS d39:5 HexCer-AS d23:3/16:2C <sub>45</sub> H <sub>79</sub> NO <sub>9</sub>	0.364	0.017	1.115	
synovial fluid	cold vs. normal	898.670	790.600	0.990	HexCer-ADS d35:0; HexCer-ADS d19:0.C <sub>41</sub> H <sub>81</sub> NO <sub>9</sub>	0.420	0.026	1.044	
synovial fluid	cold vs. normal	899.950	838.600	0.900	HexCer-AS d39:4 HexCer-AS d23:2/16:2C <sub>45</sub> H <sub>81</sub> NO <sub>9</sub>	0.342	0.028	1.094	
synovial fluid	cold vs. normal	302.110	367.108	1.000	Gibberellic acid C <sub>19</sub> H <sub>22</sub> O <sub>6</sub>	1977/6/5	0.133	0.012	1.106
synovial fluid	cold vs. normal	900.930	610.543	0.850	Cer 36:1 C <sub>36</sub> H <sub>71</sub> NO <sub>3</sub>	0.248	0.027	1.034	
synovial fluid	cold vs. normal	905.760	814.600	1.000	HexCer-AS d37:2; HexCer-AS d21:2/16:C <sub>43</sub> H <sub>81</sub> NO <sub>9</sub>	0.289	0.010	1.201	
synovial fluid	cold vs. hot; cold vs. normal	912.750	816.615	0.990	HexCer-AS d37:1 HexCer-AS d21:1/16:(C <sub>43</sub> H <sub>83</sub> NO <sub>9</sub>	2.439	0.030	1.200	
synovial fluid	cold vs. normal	912.760	817.645	0.810	SM d39:1 SM d21:0/18:1 SM(d21:0/18:1)C <sub>44</sub> H <sub>89</sub> N <sub>2</sub> O <sub>6</sub> P	2.303	0.005	1.238	
synovial fluid	cold vs. normal	944.780	664.591	0.820	Cer 40:2 C <sub>40</sub> H <sub>77</sub> NO <sub>3</sub>	0.171	0.005	1.239	
synovial fluid	hot vs. normal	946.510	690.607	0.780	Cer 42:3 C <sub>42</sub> H <sub>79</sub> NO <sub>3</sub>	0.365	0.007	1.034	
synovial fluid	cold vs. normal	953.470	856.692	0.820	HexCer-NDS d42:1 HexCer-NDS d18:0/C <sub>48</sub> H <sub>93</sub> NO <sub>8</sub>	0.440	0.005	1.198	
synovial fluid	cold vs. hot; cold vs. normal; RA vs. normal; cold vs. hot	954.440	857.679	0.780	SM d42:2 SM d20:0/22:2 SM(d20:0/22:2)C <sub>47</sub> H <sub>93</sub> N <sub>2</sub> O <sub>6</sub> P	2.207	0.150	1.126	
synovial fluid	cold vs. hot; cold vs. normal; RA vs. normal; cold vs. hot	962.670	831.663	0.770	SM d40:1 SM d24:1/16:0 SM(d24:1/16:0)C <sub>45</sub> H <sub>91</sub> N <sub>2</sub> O <sub>6</sub> P	2.906	0.072	1.206	
synovial fluid	cold vs. hot; cold vs. normal; RA vs. normal; cold vs. hot	306.850	332.135	0.660	Pefloxacin (USAN/INN) PFLX Pefloxaci C <sub>17</sub> H <sub>20</sub> FN <sub>3</sub> O <sub>3</sub>	70458-92-3	0.117	0.014	1.089
synovial fluid	RA vs. normal	309.310	528.265	0.900	Glycochenodeoxycholate 7-sulfate N-[(3ε C <sub>26</sub> H <sub>43</sub> NO <sub>8</sub> S	67030-55-1	0.398	0.116	1.502
synovial fluid	cold vs. hot; cold vs. normal; cold vs. hot; cold vs. normal	310.270	413.201	0.950	Eplerenone Eplerenone (JP17/USAN/INN)C <sub>24</sub> H <sub>30</sub> O <sub>6</sub>	107724-20-	0.443	0.055	1.178
synovial fluid	cold vs. hot; cold vs. normal; cold vs. hot; cold vs. normal	335.710	397.207	0.960	Methyl prednisolone acetate C <sub>24</sub> H <sub>32</sub> O <sub>6</sub>	53-36-1	0.460	0.104	1.071
synovial fluid	cold vs. hot	283.690	359.184	0.660	Prednisone C <sub>21</sub> H <sub>26</sub> O <sub>5</sub>	1953/3/2	2.867	0.060	1.140
synovial fluid	cold vs. normal; hot vs. normal	346.540	359.159	0.530	Matairesinol (-)-Matairesinol (3R,4R)-3,4C <sub>20</sub> H <sub>22</sub> O <sub>6</sub>	580-72-3	0.135	0.015	1.083
synovial fluid	hot vs. normal	348.120	236.162	1.000	Stovaine Amylocaine Amylocaine (BAN)C <sub>14</sub> H <sub>21</sub> NO <sub>2</sub>	644-26-8	0.414	0.003	1.132
synovial fluid	cold vs. normal; hot vs. normal; cold vs. hot	351.460	633.252	0.780	CandesartanCilextil		0.100	0.020	1.078
synovial fluid	cold vs. normal; hot vs. normal; cold vs. hot	355.310	585.268	0.790	4Z,15E-Bilirubin IXa C <sub>33</sub> H <sub>36</sub> N <sub>4</sub> O <sub>6</sub>		2.127	0.025	1.238
synovial fluid	cold vs. normal; hot vs. normal; cold vs. hot	355.400	586.271	0.740	PS 20:2 PS 3:0-17:2 PS(3:0/17:2) C <sub>26</sub> H <sub>46</sub> NO <sub>10</sub> P		2.112	0.026	1.232
synovial fluid	cold vs. normal; hot vs. normal; cold vs. hot	373.530	633.253	0.780	CandesartanCilextil		0.099	0.011	1.124
synovial fluid	cold vs. normal; hot vs. normal; cold vs. hot	378.850	583.253	0.780	Biliverdin C <sub>33</sub> H <sub>34</sub> N <sub>4</sub> O <sub>6</sub>	114-25-0	0.027	0.011	1.124
synovial fluid	hot vs. normal	380.800	649.247	0.600	Chalcomoracin CHALCOMORACIN C <sub>39</sub> H <sub>36</sub> O <sub>9</sub>	76472-89-4	0.126	0.006	1.032
synovial fluid	cold vs. hot	417.080	274.273	0.670	Hexadecaphinganine C16 Sphinganine C <sub>16</sub> H <sub>35</sub> NO <sub>2</sub>		0.453	0.049	1.103
synovial fluid	cold vs. hot	417.880	275.277	0.800	7,11,15-Trimethyl-3-methylenehexadeca-C <sub>20</sub> H <sub>34</sub>		0.484	0.047	1.124
synovial fluid	RA vs. normal	486.360	440.311	0.790	lysoPE 16:0 PE(O-16:0/0:0) C <sub>21</sub> H <sub>46</sub> NO <sub>6</sub> P		2.066	0.028	1.214
synovial fluid	RA vs. normal	118.950	205.028	0.820	Oxaloglutarate C <sub>7</sub> H <sub>8</sub> O <sub>7</sub>		2.475	0.007	1.295
synovial fluid	cold vs. hot	524.020	214.179	0.800	N-(9-Oxodecyl)acetamide C <sub>12</sub> H <sub>23</sub> NO <sub>2</sub>		2.480	0.019	1.289
synovial fluid	cold vs. hot	524.290	230.174	0.900	2-(6-hydroxy-6-methylheptyl)-2H-furan-C <sub>12</sub> H <sub>20</sub> O <sub>3</sub>		2.430	0.022	1.264
synovial fluid	RA vs. normal	524.650	490.327	0.540	Oxysporidinone	184871-55-	2.001	0.051	1.189

synovial fluid	cold vs. normal; hot vs. normal; RA vs. normal	532.980	278.247	0.750	Obscuraminol A	C <sub>18</sub> H <sub>31</sub> NO	0.310	0.083	1.177	
synovial fluid	cold vs. hot	534.410	172.132	0.550	Gabapentin (Neurontin)		60142-96-3	2.294	0.067	1.030
synovial fluid	hot vs. normal	540.580	293.246	1.000	5 $\alpha$ -Androstane-11 $\beta$ ,17 $\beta$ -diol	C <sub>19</sub> H <sub>32</sub> O <sub>2</sub>	0.079	0.007	1.034	
synovial fluid	RA vs. normal	543.370	468.342	0.690	lysoPE 18:0 PE(O-18:0/0:0)	C <sub>23</sub> H <sub>50</sub> NO <sub>6</sub> P	2.073	0.043	1.149	
synovial fluid	hot vs. normal	547.960	636.420	0.590	SM d28:3 SM d14:3/14:0 SM(d14:3/14:0	C <sub>33</sub> H <sub>63</sub> N <sub>2</sub> O <sub>6</sub> P	0.393	0.004	1.056	
synovial fluid	hot vs. normal	566.280	651.439	0.710	Progesterone		0.388	0.005	1.067	
synovial fluid	hot vs. normal	566.310	650.436	0.990	PC(16:0/9:0(CHO))	C <sub>33</sub> H <sub>64</sub> NO <sub>5</sub> P	0.388	0.003	1.105	
synovial fluid	hot vs. normal; RA vs. normal	569.700	424.340	0.870	$\alpha$ -Tocotrienoxyl radical	C <sub>29</sub> H <sub>43</sub> O <sub>2</sub>	0.252	0.028	1.094	
synovial fluid	hot vs. normal	570.990	242.283	1.000	1-Hexadecylamine	C <sub>16</sub> H <sub>35</sub> N	143-27-1	2.409	0.000	1.253
synovial fluid	cold vs. normal	580.100	279.230	0.710	Pinolenic Acid Pinolenic acid	C <sub>18</sub> H <sub>30</sub> O <sub>2</sub>	16833-54-8	0.431	0.032	1.001
synovial fluid	cold vs. hot	585.170	200.163	0.960	11-nitro-1-undecene	C <sub>11</sub> H <sub>21</sub> NO <sub>2</sub>	2.086	0.065	1.054	
synovial fluid	RA vs. normal	589.030	552.400	0.950	PC(O-18:0/2:0)	C <sub>28</sub> H <sub>58</sub> NO <sub>7</sub> P	0.146	0.106	1.270	
synovial fluid	RA vs. normal	595.670	400.340	0.680	L-Palmitoylcarnitine Palmitoylcarnitine P	C <sub>23</sub> H <sub>45</sub> NO <sub>4</sub>	1935-18-8 20.312	0.051	1.404	
synovial fluid	RA vs. normal	598.350	401.344	0.740	7-Ketocholesterol	C <sub>27</sub> H <sub>44</sub> O <sub>2</sub>	566-28-9	0.270	0.052	1.470
synovial fluid	RA vs. normal	603.020	583.252	0.660	Biliverdin	C <sub>33</sub> H <sub>34</sub> N <sub>4</sub> O <sub>6</sub>	0.415	0.017	1.014	
synovial fluid	cold vs. normal; hot vs. normal	612.400	263.236	1.000	Farnesyl acetone	C <sub>18</sub> H <sub>30</sub> O	0.337	0.003	1.254	
synovial fluid	cold vs. normal; hot vs. normal	612.400	281.246	0.700	$\beta$ -Linoleic acid	C <sub>18</sub> H <sub>32</sub> O <sub>2</sub>	60-33-3	0.328	0.004	1.253
synovial fluid	hot vs. normal	619.360	520.374	0.560	PC(P-19:1(12Z)/0:0)	C <sub>27</sub> H <sub>54</sub> NO <sub>6</sub> P	2.916	0.007	1.067	
synovial fluid	hot vs. normal	621.650	678.467	0.770	PS(P-16:0/13:0)	C <sub>35</sub> H <sub>68</sub> NO <sub>5</sub> P	0.439	0.004	1.062	
synovial fluid	hot vs. normal; RA vs. normal; cold vs. normal	626.960	426.356	0.790	MAG 22:3	C <sub>25</sub> H <sub>44</sub> O <sub>4</sub>	0.101	0.037	1.062	
synovial fluid	hot vs. normal; RA vs. normal; cold vs. normal	635.940	585.268	0.730	Bilirubin 4E,15Z-Bilirubin IXa	C <sub>33</sub> H <sub>36</sub> N <sub>4</sub> O <sub>6</sub>	635-65-4 69.054	0.026	1.053	
synovial fluid	cold vs. normal	636.030	583.252	0.970	Okaramine D		162413-54-	0.095	0.014	1.107
synovial fluid	RA vs. normal	134.390	208.132	0.580	3,4-Methylenedioxy-N-ethylamphetamin	C <sub>12</sub> H <sub>17</sub> NO <sub>2</sub>	14089-52-2	9.421	0.030	1.515
synovial fluid	RA vs. normal	658.770	449.360	0.720	Typhasterol 2-Deoxycastasterone	C <sub>28</sub> H <sub>48</sub> O <sub>4</sub>	87734-68-7	2.391	0.105	1.126
synovial fluid	hot vs. normal	677.300	548.405	0.610	CerP 29:1	C <sub>29</sub> H <sub>58</sub> NO <sub>6</sub> P	2.835	0.002	1.155	
synovial fluid	hot vs. normal	699.040	512.502	0.790	Cer-NDS d32:0 Cer-NDS d15:0/17:0 Cer	C <sub>32</sub> H <sub>65</sub> NO <sub>3</sub>	0.047	0.011	1.136	
synovial fluid	cold vs. hot; hot vs. normal	707.990	862.622	0.680	Galabiosylceramide (d18:1/16:0)	C <sub>46</sub> H <sub>87</sub> NO <sub>13</sub>	2.031	0.000	1.795	
synovial fluid	RA vs. normal	708.430	617.472	0.940	SM d28:2 SM d15:2/13:0 SM(d15:2/13:0	C <sub>33</sub> H <sub>65</sub> N <sub>2</sub> O <sub>6</sub> P	2.241	0.235	1.155	
synovial fluid	cold vs. normal; hot vs. normal; RA vs. normal	732.590	325.309	0.830	4,8,12,16-Tetramethylheptadecan-4-olide	C <sub>21</sub> H <sub>40</sub> O <sub>2</sub>	0.327	0.038	1.050	
synovial fluid	cold vs. hot	746.450	835.530	0.900	PI(12:0/22:2(13Z,16Z))	C <sub>43</sub> H <sub>79</sub> O <sub>13</sub> P	2.043	0.020	1.287	
synovial fluid	hot vs. normal	755.960	773.614	0.680	PA(21:0/20:1(11Z))	C <sub>44</sub> H <sub>85</sub> O <sub>8</sub> P	0.444	0.006	1.043	
synovial fluid	cold vs. normal	834.190	720.551	0.980	PC(12:0/19:0)	C <sub>39</sub> H <sub>78</sub> NO <sub>8</sub> P	2.013	0.019	1.073	
synovial fluid	cold vs. hot	856.110	796.582	0.970	PC(17:1(9Z)/20:3(8Z,11Z,14Z))	C <sub>45</sub> H <sub>82</sub> NO <sub>8</sub> P	2.439	0.076	1.094	
synovial fluid	cold vs. normal	861.820	431.383	0.940	$\alpha$ -Tocopherol Vitamin E Tocopherol (JP1	C <sub>29</sub> H <sub>50</sub> O <sub>2</sub>	59-02-9 1012.888	0.002	1.454	
synovial fluid	RA vs. normal	862.030	538.517	0.980	Ceramide (18:1/16:0)		0.460	0.211	1.259	

synovial fluid	cold vs. hot	904.750	730.568	0.580	plasmenyl-PE 36:1	C <sub>41</sub> H <sub>80</sub> NO <sub>7</sub> P	2.272	0.078	1.018	
synovial fluid	cold vs. normal	911.490	748.609	0.710	DGTS 35:3 DGTS 14:1-21:2 DGTS(14:1	C <sub>45</sub> H <sub>81</sub> NO <sub>7</sub>	2.178	0.007	1.182	
synovial fluid	cold vs. hot	920.410	575.500	0.930	Montecristin	C <sub>37</sub> H <sub>66</sub> O <sub>4</sub>	185336-15-4	1.163	0.022	1.315
synovial fluid	cold vs. hot; cold vs. normal; hot vs. normal	967.810	835.663	0.880	SM 42:2	C <sub>47</sub> H <sub>93</sub> N <sub>2</sub> O <sub>6</sub> P	2.315	0.024	1.470	
synovial fluid	cold vs. hot; cold vs. normal; hot vs. normal	1075.150	533.524	1.000	Stearyl linoleate	C <sub>36</sub> H <sub>68</sub> O <sub>2</sub>	0.126	0.001	1.384	
synovial fluid	RA vs. normal	1090.440	815.696	1.000	SM(d18:1/24:0)	C <sub>47</sub> H <sub>95</sub> N <sub>2</sub> O <sub>6</sub> P	0.413	0.221	1.198	
synovial fluid	cold vs. normal; hot vs. normal	250.780	172.133	1.000	Gabapentin (JAN/USAN/INN) Neurontin	C <sub>9</sub> H <sub>17</sub> NO <sub>2</sub>	60142-96-3	0.427	0.012	1.131
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	100.580	146.985	1.000	3-Acetyl-1,2-dithiolane	C <sub>5</sub> H <sub>8</sub> OS <sub>2</sub>	89712-89-0	1.771	0.073	1.709
Serum	cold vs. hot	747.090	778.595	0.920	Cer-BDS d47:9 Cer_BS d20:2/27:7 Cer[	I C <sub>47</sub> H <sub>77</sub> NO <sub>4</sub>	0.739	0.526	1.024	
Serum	cold vs. normal	812.940	862.561	0.920	Phosphatidylcholine 16:0-22:7	C <sub>47</sub> H <sub>80</sub> NO <sub>8</sub> P	2.598	0.017	1.978	
Serum	cold vs. normal	752.080	835.527	0.900	Roxithromycin	C <sub>41</sub> H <sub>76</sub> N <sub>2</sub> O <sub>15</sub>	80214-83-1	2.210	0.139	1.293
Serum	hot vs. normal; RA vs. normal	471.580	870.540	0.870	Phosphatidylglyceride 22:6-22:4	C <sub>50</sub> H <sub>79</sub> O <sub>10</sub> P	1.591	0.057	1.219	
Serum	cold vs. normal	614.070	479.342	0.870	24-epi-Brassinolide Brassinolide 2,4-Epit	C <sub>28</sub> H <sub>48</sub> O <sub>6</sub>	78821-43-9	2.169	0.141	1.299
Serum	cold vs. hot	372.000	375.197	1.000	Fluoromethalone	C <sub>22</sub> H <sub>29</sub> FO <sub>4</sub>	426-13-1	1.753	0.322	1.007
Serum	cold vs. hot	569.090	415.226	0.700	Ramipril (USP/INN) Altace (TN) Ramipr	C <sub>23</sub> H <sub>32</sub> N <sub>2</sub> O <sub>5</sub>	87333-19-5	0.716	0.060	1.648
Serum	cold vs. normal	848.710	790.593	0.670	Cer-BDS d48:10 Cer_BS d21:3/27:7 Cer[	C <sub>48</sub> H <sub>77</sub> NO <sub>4</sub>	0.507	0.314	1.002	
Serum	cold vs. hot; RA vs. normal; hot vs. normal	636.580	371.223	0.650	5-Ethoxysorgoleone 358	C <sub>23</sub> H <sub>32</sub> O <sub>4</sub>	210708-13-	0.489	0.271	1.186
Serum	cold vs. hot; RA vs. normal; hot vs. normal	582.720	417.317	0.580	β-Citraurinine	C <sub>30</sub> H <sub>42</sub> O	58947-97-0	1.587	0.100	1.026
Serum	cold vs. hot	397.720	267.131	0.570	3-carboxy-4-methyl-5-pentyl-2-furanpro	C <sub>14</sub> H <sub>20</sub> O <sub>5</sub>	2.477	0.076	1.594	
Serum	cold vs. normal; hot vs. normal; RA vs. normal	441.980	507.277	1.000	LPG 18:2	C <sub>24</sub> H <sub>45</sub> O <sub>9</sub> P	1.644	0.187	1.201	
Serum	cold vs. normal	862.080	572.501	1.000	Cer-NS d37:4 Cer-NS d24:3/13:1 Cer[NS	C <sub>37</sub> H <sub>67</sub> NO <sub>3</sub>	0.543	0.344	1.150	
Serum	cold vs. hot	926.480	858.630	1.000	HexCer-AP t39:2 HexCer-AP t20:1/19:1	C <sub>45</sub> H <sub>85</sub> NO <sub>10</sub>	0.204	0.272	1.082	
Serum	cold vs. normal	196.510	129.057	0.980	4-Methyl-2-Oxovalerate	C <sub>6</sub> H <sub>10</sub> O <sub>3</sub>	4502-00-5	1.743	0.262	1.040
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	945.690	772.618	1.000	PC(P-16:0/20:1(11Z))	C <sub>44</sub> H <sub>86</sub> NO <sub>7</sub> P	0.570	0.276	1.085	
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	523.340	666.432	1.000	PC(16:0/9:0(COOH))	C <sub>33</sub> H <sub>64</sub> NO <sub>10</sub> P	1.658	0.115	1.435	
Serum	RA vs. normal	409.450	398.240	1.000	S-4-benzyl-3-((S)-3-hydroxy-2,2-dimethyloctanoyl)-5,5-dimethyloxazolidin-	1.227	0.166	1.054		
Serum	cold vs. hot	658.670	360.317	1.000	5-Decanoyl-2-nonylpyridine	C <sub>24</sub> H <sub>41</sub> NO	149682-94-	0.261	0.313	1.123
Serum	cold vs. normal	859.310	788.555	1.000	plasmenyl-PC 36:4	C <sub>44</sub> H <sub>80</sub> NO <sub>7</sub> P	0.528	0.227	1.213	
Serum	cold vs. hot	130.310	185.128	1.000	N-(3-acetamidopropyl)pyrrolidin-2-one N	C <sub>9</sub> H <sub>16</sub> N <sub>2</sub> O <sub>2</sub>	106692-36-	1.515	0.284	1.031
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	86.740	175.118	0.990	L-Arginine	C <sub>6</sub> H <sub>14</sub> N <sub>4</sub> O <sub>2</sub>	74-79-3	0.708	0.261	1.121
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	566.510	650.437	0.990	PC(16:0/9:0(CHO))	C <sub>33</sub> H <sub>64</sub> NO <sub>9</sub> P	1.428	0.122	1.426	
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	516.620	496.374	0.990	PC(O-16:0/O-1:0)	C <sub>25</sub> H <sub>54</sub> NO <sub>6</sub> P	1.393	0.457	1.024	
Serum	RA vs. normal	924.590	794.604	0.990	PC(O-18:1(9Z)/20:4(5Z,8Z,11Z,14Z))	C <sub>46</sub> H <sub>84</sub> NO <sub>7</sub> P	0.699	0.032	1.431	
Serum	cold vs. normal	896.470	718.573	0.990	PC(P-16:0/16:0)	C <sub>40</sub> H <sub>80</sub> NO <sub>7</sub> P	0.292	0.081	1.543	

Serum	hot vs. normal; RA vs. normal	684.690	324.325	0.990	N-(14-Methylhexadecanoyl)pyrrolidine	C <sub>21</sub> H <sub>41</sub> NO	260058-83-1	1.342	0.117	1.071
Serum	cold vs. hot	599.310	228.231	1.000	N-Tetradecanamide	C <sub>14</sub> H <sub>29</sub> NO	638-58-4	1.519	0.555	1.042
Serum	cold vs. normal	577.720	279.231	0.990	$\alpha$ -Linolenic acid	C <sub>18</sub> H <sub>30</sub> O <sub>2</sub>	463-40-1	2.219	0.043	1.711
Serum	cold vs. normal	903.790	720.588	0.990	PC(O-18:0/14:0)	C <sub>40</sub> H <sub>82</sub> NO <sub>7</sub> P		0.591	0.248	1.114
Serum	cold vs. hot; hot vs. normal; RA vs. normal	606.810	538.421	0.990	PC(O-16:0/O-4:0)[U]	C <sub>28</sub> H <sub>60</sub> NO <sub>6</sub> P		1.411	0.348	1.111
Serum	cold vs. normal	122.590	132.102	0.990	D-Norleucine	C <sub>6</sub> H <sub>13</sub> NO <sub>2</sub>	327-56-0	1.242	0.228	1.112
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	841.510	692.557	0.990	PC(o-14:0/16:0) PC(O-14:0/16:0)	C <sub>38</sub> H <sub>78</sub> NO <sub>7</sub> P		0.392	0.128	1.378
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	428.520	230.247	1.000	3-epi-xestoaminol C			0.607	0.184	1.266
Serum	RA vs. normal	952.800	848.650	0.990	PC(O-20:0/22:6(4Z,7Z,10Z,13Z,16Z,19Z)C <sub>50</sub> H <sub>90</sub> NO <sub>7</sub> P			1.681	0.020	1.480
Serum	cold vs. hot	1227.490	879.738	0.990	SM 45:1	C <sub>50</sub> H <sub>101</sub> N <sub>2</sub> O <sub>6</sub> P		0.208	0.240	1.173
Serum	cold vs. normal	505.180	572.370	0.990	LysoPC(22:4(7Z,10Z,13Z,16Z)) PC(22:4C <sub>30</sub> H <sub>54</sub> NO <sub>7</sub> P			1.506	0.001	2.380
Serum	cold vs. hot	884.770	836.613	0.990	PC(22:1(11Z)/18:4(6Z,9Z,12Z,15Z))	C <sub>48</sub> H <sub>86</sub> NO <sub>8</sub> P		1.406	0.250	1.431
Serum	cold vs. hot	348.160	236.162	1.000	Stovaine Amylocaine Amylocaine (BAN)	C <sub>14</sub> H <sub>21</sub> NO <sub>2</sub>	644-26-8	0.441	0.198	1.214
Serum	cold vs. normal; hot vs. normal; RA vs. normal	860.920	431.385	0.990	$\alpha$ -Tocopherol Vitamin E Tocopherol (JP1C <sub>29</sub> H <sub>50</sub> O <sub>2</sub>		59-02-9 1010.482		0.070	1.593
Serum	cold vs. normal	482.620	568.336	0.990	PC(22:6(4E,7E,10E,13E,16E,19E)/0:0) [C <sub>30</sub> H <sub>50</sub> NO <sub>7</sub> P			1.204	0.268	1.122
Serum	cold vs. hot; hot vs. normal; cold vs. hot; RA vs. normal	284.710	414.204	0.980	(2S)-1-[6-[(10aS)-1,3-dioxo-10,10a-dihydro-5H-imidazo[1,5-b]isoquinolin-2-			2.158	0.343	1.030
Serum	cold vs. hot; hot vs. normal; cold vs. hot; RA vs. normal	744.190	391.283	0.980	Diisooctyl phthalate	C <sub>24</sub> H <sub>38</sub> O <sub>4</sub>	27554-26-3	0.687	0.331	1.088
Serum	cold vs. hot	954.190	814.631	0.980	PC(19:1(10Z)/19:1(10Z))[U]	C <sub>46</sub> H <sub>88</sub> NO <sub>8</sub> P		0.267	0.262	1.087
Serum	cold vs. hot; hot vs. normal; RA vs. normal	906.790	774.598	0.980	PC(13:0/22:1(11Z))	C <sub>43</sub> H <sub>84</sub> NO <sub>8</sub> P		0.504	0.266	1.069
Serum	cold vs. hot; hot vs. normal; RA vs. normal	943.990	796.620	0.980	PC(20:2(11Z,14Z)/P-18:1(11Z)) PC(20:2C <sub>46</sub> H <sub>86</sub> NO <sub>7</sub> P			0.738	0.378	1.071
Serum	cold vs. hot	1246.210	905.755	0.980	SM 47:2	C <sub>52</sub> H <sub>103</sub> N <sub>2</sub> O <sub>6</sub> P		0.333	0.175	1.253
Serum	cold vs. hot; cold vs. normal; RA vs. normal; hot vs. normal	588.500	242.284	1.000	1-Hexadecylamine	C <sub>16</sub> H <sub>35</sub> N	143-27-1	0.511	0.078	1.594
Serum	cold vs. hot; cold vs. normal; RA vs. normal; hot vs. normal	585.780	507.272	0.980	(22E)-26,26,26,27,27,27-hexafluoro-25-1	C <sub>27</sub> H <sub>36</sub> F <sub>6</sub> O <sub>2</sub>		0.216	0.030	1.840
Serum	cold vs. hot; cold vs. normal; RA vs. normal; hot vs. normal	860.440	818.604	0.980	PC(P-18:1(9Z)/22:5(4Z,7Z,10Z,13Z,16Z)C <sub>48</sub> H <sub>84</sub> NO <sub>7</sub> P			1.281	0.151	1.507
Serum	cold vs. hot; cold vs. normal; RA vs. normal; hot vs. normal	910.360	796.618	0.980	PC(O-16:0/22:4(7Z,10Z,13Z,16Z))	C <sub>46</sub> H <sub>86</sub> NO <sub>7</sub> P		0.620	0.315	1.030
Serum	cold vs. hot; cold vs. normal; RA vs. normal; hot vs. normal	424.440	415.210	0.980	6-[3-[(3,4-dimethoxyphenyl)methyl]-4-m	C <sub>24</sub> H <sub>32</sub> O <sub>7</sub>		0.843	0.071	1.595
Serum	cold vs. hot; cold vs. normal; RA vs. normal; hot vs. normal	798.460	756.553	0.970	PC 32:0 PC(10:0/22:0)	C <sub>40</sub> H <sub>80</sub> NO <sub>8</sub> P		1.531	0.240	1.056
Serum	cold vs. hot; cold vs. normal; RA vs. normal; hot vs. normal	679.410	590.452	0.970	CerP(d18:1/14:0)	C <sub>32</sub> H <sub>64</sub> NO <sub>6</sub> P		0.613	0.039	1.316
Serum	cold vs. hot; cold vs. normal; RA vs. normal; hot vs. normal	958.140	788.622	0.970	PC(14:0/22:1(11Z))	C <sub>44</sub> H <sub>86</sub> NO <sub>8</sub> P		1.875	0.033	1.295
Serum	cold vs. hot	724.240	604.566	0.970	Cer-NS d39:3 Cer-NS d21:3/18:0 Cer[NSC <sub>39</sub> H <sub>73</sub> NO <sub>3</sub>			0.664	0.376	1.043
Serum	cold vs. hot; cold vs. normal	622.780	331.262	0.970	All-cis-4,7,10,13,16-docosapentaenoic ac	C <sub>22</sub> H <sub>34</sub> O <sub>2</sub>	25182-74-5	2.136	0.080	1.581
Serum	cold vs. hot	406.980	415.210	0.970	2H-Oxireno[1,10a]phenanthro[3,2-b]fura	C <sub>24</sub> H <sub>32</sub> O <sub>7</sub>		0.511	0.285	1.037
Serum	cold vs. hot; cold vs. normal	357.240	246.152	1.000	Tropacocaine Benzoyltropein Benzoyltro	C <sub>15</sub> H <sub>19</sub> NO <sub>2</sub>	537-26-8 190.458		0.024	2.046
Serum	cold vs. normal	788.770	780.552	0.970	PC 34:2	C <sub>42</sub> H <sub>80</sub> NO <sub>8</sub> P		2.464	0.154	1.253
Serum	cold vs. normal	786.290	754.536	0.970	PC 32:1	C <sub>40</sub> H <sub>78</sub> NO <sub>8</sub> P		1.961	0.023	1.861

Serum	cold vs. hot	812.100	744.553	0.970	PC(13:0/20:2(11Z,14Z))	C <sub>41</sub> H <sub>78</sub> NO <sub>8</sub> P	1.540	0.255	1.210	
Serum	cold vs. hot; cold vs. normal	842.080	742.537	0.960	PE 36:3	C <sub>41</sub> H <sub>76</sub> NO <sub>8</sub> P	0.575	0.218	1.167	
Serum	hot vs. normal	520.450	494.359	0.960	PC(P-17:0/0:0)	C <sub>25</sub> H <sub>52</sub> NO <sub>6</sub> P	0.717	0.150	1.016	
Serum	cold vs. hot	370.250	250.177	1.000	Alprenolol	C <sub>15</sub> H <sub>23</sub> NO <sub>2</sub>	13655-52-2	0.789	0.169	1.276
Serum	cold vs. normal	629.790	383.315	0.960	MG(0:0/20:2(11Z,14Z)/0:0)	C <sub>23</sub> H <sub>42</sub> O <sub>4</sub>	0.649	0.263	1.009	
Serum	cold vs. normal; hot vs. normal; RA vs. normal	936.430	838.630	0.960	PC(22:1(11Z)/18:3(6Z,9Z,12Z))	C <sub>48</sub> H <sub>88</sub> NO <sub>8</sub> P	1.970	0.229	1.118	
Serum	cold vs. normal; hot vs. normal; RA vs. normal	792.570	854.567	0.960	PC(20:4(5Z,8Z,11Z,14Z)/22:6(4Z,7Z,10Z))	C <sub>50</sub> H <sub>80</sub> NO <sub>8</sub> P	1.689	0.055	1.305	
Serum	cold vs. normal	852.960	806.565	0.960	PC(20:4(5Z,8Z,11Z,14Z)/18:2(9Z,12Z))	C <sub>46</sub> H <sub>80</sub> NO <sub>8</sub> P	0.365	0.244	1.165	
Serum	cold vs. hot; hot vs. normal; RA vs. normal	637.010	588.437	0.960	CerP 32:2	C <sub>32</sub> H <sub>62</sub> NO <sub>6</sub> P	1.485	0.357	1.063	
Serum	cold vs. hot; hot vs. normal; RA vs. normal	546.530	532.372	0.960	lysoPC 18:0	C <sub>26</sub> H <sub>56</sub> NO <sub>6</sub> P	0.745	0.122	1.161	
Serum	cold vs. normal	540.950	550.385	0.960	PC(O-18:1(10E)/2:0)	C <sub>28</sub> H <sub>56</sub> NO <sub>7</sub> P	1.216	0.102	1.479	
Serum	cold vs. normal; hot vs. normal; RA vs. normal	898.900	818.604	0.960	PC(P-18:1(11Z)/22:5(4Z,7Z,10Z,13Z,16Z))	C <sub>48</sub> H <sub>84</sub> NO <sub>7</sub> P	0.593	0.193	1.167	
Serum	cold vs. normal; hot vs. normal; RA vs. normal	393.460	409.160	0.960	Amlodipine	C <sub>20</sub> H <sub>25</sub> ClN <sub>2</sub> O <sub>5</sub>	88150-42-9	1.274	0.100	1.145
Serum	cold vs. normal	790.680	279.231	0.960	γ-Linolenic acid	C <sub>18</sub> H <sub>30</sub> O <sub>2</sub>	506-26-3	1.793	0.117	1.537
Serum	hot vs. normal	836.440	790.571	0.950	PC(P-16:0/22:6(4Z,7Z,10Z,13Z,16Z,19Z))	C <sub>46</sub> H <sub>80</sub> NO <sub>7</sub> P	0.512	0.002	1.800	
Serum	cold vs. hot	1187.900	903.739	0.950	TAG 54:5 TAG 15:0-19:3-20:2 TG 54:5	C <sub>57</sub> H <sub>100</sub> O <sub>6</sub>	0.500	0.410	1.051	
Serum	hot vs. normal; RA vs. normal; cold vs. hot; cold vs. normal	386.040	343.295	0.950	Cocamidopropylβine Cocamidoprpylβine	C <sub>19</sub> H <sub>38</sub> N <sub>2</sub> O <sub>3</sub>	1.224	0.055	1.242	
Serum	hot vs. normal; RA vs. normal; cold vs. hot; cold vs. normal	1082.290	837.677	0.950	SM 42:1	C <sub>47</sub> H <sub>95</sub> N <sub>2</sub> O <sub>6</sub> P	0.442	0.283	1.271	
Serum	hot vs. normal; RA vs. normal; cold vs. hot; cold vs. normal	591.430	331.284	0.950	Glycerol 1-hexadecanoate	C <sub>19</sub> H <sub>38</sub> O <sub>4</sub>	542-44-9	0.317	0.333	1.083
Serum	hot vs. normal; RA vs. normal; cold vs. hot; cold vs. normal	926.780	824.617	0.950	PC(22:2(13Z,16Z)/17:2(9Z,12Z))	C <sub>47</sub> H <sub>86</sub> NO <sub>8</sub> P	0.588	0.007	1.713	
Serum	cold vs. hot	176.830	265.118	1.000	N-γ-Acetyl-N-2-Formyl-5-methoxykynur	C <sub>13</sub> H <sub>16</sub> N <sub>2</sub> O <sub>4</sub>	52450-38-1	3.910	0.002	2.367
Serum	cold vs. hot; cold vs. normal	586.530	523.244	0.950	Trilobolide	C <sub>27</sub> H <sub>38</sub> O <sub>10</sub>	50657-07-3	0.291	0.068	1.634
Serum	cold vs. normal	832.220	804.550	0.940	PC 36:4	C <sub>44</sub> H <sub>80</sub> NO <sub>8</sub> P	0.677	0.312	1.159	
Serum	cold vs. normal; hot vs. normal; RA vs. normal	863.100	742.573	0.940	PC(16:1(9Z)/P-18:1(11Z)) PC(16:1(9Z)/I	C <sub>42</sub> H <sub>80</sub> NO <sub>7</sub> P	0.569	0.040	1.728	
Serum	cold vs. normal; hot vs. normal; RA vs. normal	930.510	746.603	0.940	1-O-Hexadecyl-2-(9Z-octadecenyl)-sn-g	C <sub>42</sub> H <sub>85</sub> NO <sub>7</sub> P	0.392	0.037	1.731	
Serum	cold vs. normal	1125.020	837.677	0.940	SM 42:1	C <sub>47</sub> H <sub>95</sub> N <sub>2</sub> O <sub>6</sub> P	2.414	0.093	1.466	
Serum	cold vs. normal	899.100	794.603	0.940	PC(P-18:1(9Z)/20:3(8Z,11Z,14Z))	C <sub>46</sub> H <sub>84</sub> NO <sub>7</sub> P	0.537	0.295	1.013	
Serum	cold vs. hot; cold vs. normal	820.020	806.568	0.940	PC 36:3	C <sub>44</sub> H <sub>82</sub> NO <sub>8</sub> P	1.269	0.324	1.238	
Serum	cold vs. hot	645.660	561.410	0.940	SM 24:2	C <sub>29</sub> H <sub>57</sub> N <sub>2</sub> O <sub>6</sub> P	1.466	0.312	1.119	
Serum	cold vs. normal	504.350	548.369	0.930	PC(20:2(11Z,14Z)/0:0)	C <sub>28</sub> H <sub>54</sub> NO <sub>7</sub> P	1.224	0.281	1.006	
Serum	cold vs. hot	725.580	321.278	0.930	Cis-8,11,14-Eicosatrienoic acid Methyl e	C <sub>21</sub> H <sub>36</sub> O <sub>2</sub>	21061-10-9	1.370	0.445	1.022
Serum	hot vs. normal; RA vs. normal	492.680	502.325	0.930	lysoPC 16:0	C <sub>24</sub> H <sub>50</sub> NO <sub>6</sub> P	0.616	0.037	1.277	
Serum	cold vs. hot	737.110	282.278	1.000	Oleamide	C <sub>18</sub> H <sub>35</sub> NO	301-02-0	0.370	0.215	1.210
Serum	cold vs. normal	501.750	510.354	0.930	PC(16:0/O-1:0)	C <sub>25</sub> H <sub>52</sub> NO <sub>7</sub> P	1.362	0.075	1.530	

Serum	hot vs. normal	864.370	772.584	0.930	PC(13:0/22:2(13Z,16Z))	C <sub>43</sub> H <sub>82</sub> NO <sub>8</sub> P	0.773	0.168	1.007	
Serum	cold vs. normal; RA vs. normal	819.130	828.549	0.930	PC 38:6	C <sub>46</sub> H <sub>80</sub> NO <sub>8</sub> P	0.662	0.227	1.190	
Serum	cold vs. hot	847.260	808.583	0.930	PC 36:2	C <sub>44</sub> H <sub>84</sub> NO <sub>8</sub> P	1.199	0.533	1.159	
Serum	cold vs. hot	673.840	284.294	1.000	Stearamide	C <sub>18</sub> H <sub>37</sub> NO	124-26-5	0.120	0.008	2.093
Serum	cold vs. normal; hot vs. normal; RA vs. normal	863.990	764.556	0.920	plasmenyl-PC 34:2	C <sub>42</sub> H <sub>80</sub> NO <sub>7</sub> P	0.328	0.029	1.815	
Serum	cold vs. normal; hot vs. normal; RA vs. normal	931.680	770.603	0.920	PC(O-16:0/20:3(8Z,11Z,14Z))	C <sub>44</sub> H <sub>84</sub> NO <sub>7</sub> P	0.468	0.017	1.430	
Serum	cold vs. normal; hot vs. normal; RA vs. normal	392.050	223.063	0.920	Fraxidin 8-Hydroxy-6,7-dimethoxy-2H-1	C <sub>11</sub> H <sub>10</sub> O <sub>5</sub>	525-21-3	1.872	0.036	1.293
Serum	cold vs. normal	462.030	526.291	0.920	lysoPE 20:3	C <sub>25</sub> H <sub>46</sub> NO <sub>7</sub> P	1.295	0.293	1.004	
Serum	hot vs. normal; RA vs. normal	553.890	348.285	0.920	O-Arachidonoyl Ethanolamine Virodham	C <sub>22</sub> H <sub>37</sub> NO <sub>2</sub>	443129-35-	1.687	0.044	1.243
Serum	cold vs. normal	761.460	678.505	0.920	PC(13:0/15:0)	C <sub>36</sub> H <sub>72</sub> NO <sub>8</sub> P	1.903	0.154	1.249	
Serum	cold vs. hot; RA vs. normal; cold vs. normal	1246.930	900.799	0.920	Triacylglycerol 18:1-18:1-18:2	C <sub>57</sub> H <sub>102</sub> O <sub>6</sub>	0.273	0.261	1.072	
Serum	cold vs. hot; RA vs. normal; cold vs. normal	540.130	349.273	0.910	17β-Hydroxy-2α-(methoxymethyl)-17-m	C <sub>22</sub> H <sub>36</sub> O <sub>3</sub>	1.440	0.222	1.193	
Serum	cold vs. hot	827.440	770.566	0.910	PC(16:0/19:3(9Z,12Z,15Z))[U]	C <sub>43</sub> H <sub>80</sub> NO <sub>8</sub> P	1.227	0.460	1.058	
Serum	cold vs. normal	575.030	358.294	0.910	N-palmitoyl threonine	C <sub>20</sub> H <sub>39</sub> NO <sub>4</sub>	1.626	0.130	1.403	
Serum	cold vs. hot; RA vs. normal	580.430	560.405	0.910	lysoDGTS 23:6	C <sub>33</sub> H <sub>53</sub> NO <sub>6</sub>	1.576	0.357	1.010	
Serum	cold vs. hot	938.450	823.639	0.910	18:3-Glc-Campesterol	C <sub>52</sub> H <sub>86</sub> O <sub>7</sub>	0.688	0.329	1.023	
Serum	RA vs. normal	944.490	577.517	0.910	Cohibin C	C <sub>37</sub> H <sub>68</sub> O <sub>4</sub>	1.687	0.163	1.117	
Serum	cold vs. hot	900.840	838.621	0.910	PC 38:1	C <sub>46</sub> H <sub>90</sub> NO <sub>8</sub> P	1.562	0.515	1.046	
Serum	hot vs. normal; RA vs. normal; cold vs. hot	746.760	297.278	0.910	Methyl oleate	C <sub>19</sub> H <sub>36</sub> O <sub>2</sub>	112-62-9	0.764	0.073	1.147
Serum	hot vs. normal; RA vs. normal; cold vs. hot	669.860	298.310	0.910	Tridemorph 2,6-Dimethyl-4-tridecylmorp	C <sub>19</sub> H <sub>39</sub> NO	81412-43-3	0.491	0.009	2.132
Serum	hot vs. normal	697.640	615.457	0.900	SM d28:3 SM d14:3/14:0 SM(d14:3/14:0	C <sub>33</sub> H <sub>63</sub> N <sub>2</sub> O <sub>6</sub> P	1.495	0.122	1.096	
Serum	cold vs. hot	686.980	293.225	1.000	3β-Fluoroandrost-5-en-17β-ol	C <sub>19</sub> H <sub>29</sub> FO	1.413	0.378	1.121	
Serum	cold vs. hot; cold vs. normal	319.340	363.216	0.900	Hydrocortisone	C <sub>21</sub> H <sub>30</sub> O <sub>5</sub>	50-23-7	2.461	0.039	1.767
Serum	hot vs. normal	302.800	391.229	0.900	Hexa(methoxymethyl)melamine 2-N,2-N.	C <sub>15</sub> H <sub>30</sub> N <sub>6</sub> O <sub>6</sub>	3089-11-0	0.464	0.103	1.148
Serum	cold vs. normal; RA vs. normal	863.410	718.571	0.900	PC(P-20:0/12:0)	C <sub>40</sub> H <sub>80</sub> NO <sub>7</sub> P	0.574	0.078	1.521	
Serum	cold vs. hot	423.660	432.236	0.900	7b,9-Dihydroxy-3-(hydroxymethyl)-1,1,6	C <sub>22</sub> H <sub>30</sub> O <sub>6</sub>	0.781	0.364	1.001	
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	630.680	270.279	0.900	Capsi-amide N-(13-Methyltetradecyl)ace	C <sub>17</sub> H <sub>35</sub> NO	64317-66-4	0.462	0.164	1.343
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	830.200	740.521	0.900	PE 36:4	C <sub>41</sub> H <sub>74</sub> NO <sub>8</sub> P	0.496	0.083	1.191	
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	807.180	740.522	0.900	PE 36:4	C <sub>41</sub> H <sub>74</sub> NO <sub>8</sub> P	0.406	0.141	1.362	
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	584.900	424.341	0.900	α-Tocotrienoxyl radical	C <sub>29</sub> H <sub>43</sub> O <sub>2</sub>	1.734	0.096	1.437	
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	517.070	482.323	0.900	lysoPE 18:0	C <sub>23</sub> H <sub>48</sub> NO <sub>7</sub> P	1.444	0.229	1.154	
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	757.750	373.309	0.900	(+)-Dysideapalaunic acid	C <sub>25</sub> H <sub>40</sub> O <sub>2</sub>	1.595	0.365	1.009	
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	788.990	299.294	1.000	Nonadecanoic acid Nonadecylic acid FA	C <sub>19</sub> H <sub>38</sub> O <sub>2</sub>	646-30-0	0.648	0.019	1.444
Serum	cold vs. normal	570.370	355.283	0.900	1-Linoleoyl-Rac-Glycerol	C <sub>21</sub> H <sub>38</sub> O <sub>4</sub>	2277-28-3	0.693	0.283	1.151

Serum	hot vs. normal	576.970	562.422	0.890	CerP(d18:1/12:0)	C <sub>30</sub> H <sub>60</sub> NO <sub>6</sub> P	0.704	0.141	1.112	
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. norm	589.220	552.402	0.890	PC(O-18:0/2:0)	C <sub>28</sub> H <sub>58</sub> NO <sub>7</sub> P	1.279	0.264	1.018	
Serum	cold vs. normal; hot vs. normal; RA vs. normal	890.180	786.599	0.890	1,2-Dioleoyl PC	C <sub>44</sub> H <sub>84</sub> NO <sub>8</sub> P	56648-95-4	0.627	0.153	1.302
Serum	cold vs. normal	600.060	578.415	0.890	PC(22:1(11Z)/0:0)	C <sub>30</sub> H <sub>60</sub> NO <sub>7</sub> P		1.952	0.211	1.234
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	568.670	302.244	1.000	Trihexyphenidyl Trihexyphenidyl (INN)	C <sub>20</sub> H <sub>31</sub> NO	144-11-6	0.314	0.013	2.066
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	622.890	562.416	0.890	lysoDGTS 23:5	C <sub>33</sub> H <sub>55</sub> NO <sub>6</sub>		1.353	0.414	1.058
Serum	cold vs. hot	763.120	381.350	0.890	Brassicasterol 24-epibrassicasterol	C <sub>28</sub> H <sub>46</sub> O	474-67-9	1.958	0.099	1.533
Serum	hot vs. normal	489.000	482.359	0.880	1-O-Hexadecyl-lyso-sn-glycero-3-phosph	C <sub>24</sub> H <sub>52</sub> NO <sub>6</sub> P		0.804	0.192	1.038
Serum	cold vs. hot; cold vs. normal	991.410	835.665	0.880	SM 42:2	C <sub>47</sub> H <sub>93</sub> N <sub>2</sub> O <sub>6</sub> P		0.390	0.334	1.258
Serum	cold vs. hot	599.100	304.260	1.000	Fenpropimorph	C <sub>20</sub> H <sub>33</sub> NO	67306-03-0	0.459	0.278	1.057
Serum	cold vs. normal; hot vs. normal; RA vs. normal	952.520	835.664	0.880	SM 42:2	C <sub>47</sub> H <sub>93</sub> N <sub>2</sub> O <sub>6</sub> P		2.965	0.060	1.662
Serum	cold vs. hot	1084.090	835.665	0.880	SM 42:2	C <sub>47</sub> H <sub>93</sub> N <sub>2</sub> O <sub>6</sub> P		1.554	0.241	1.140
Serum	cold vs. hot; hot vs. normal; cold vs. normal; RA vs. normal	523.040	535.394	0.880	6-(diaminomethylideneamino)-2-[[[(4E,6E)C <sub>25</sub> H <sub>50</sub> N <sub>4</sub> O <sub>5</sub>			1.392	0.408	1.037
Serum	cold vs. hot; hot vs. normal; cold vs. normal; RA vs. normal	891.310	808.581	0.880	PC(18:0/20:5(5Z,8Z,11Z,14Z,17Z))[U]	C <sub>46</sub> H <sub>82</sub> NO <sub>8</sub> P		0.158	0.039	1.727
Serum	cold vs. hot; hot vs. normal; cold vs. normal; RA vs. normal	948.760	849.653	0.880	MGDG 39:1 MGDG 15:0-24:1	C <sub>48</sub> H <sub>90</sub> O <sub>10</sub>		2.414	0.187	1.164
Serum	cold vs. hot	967.260	809.650	0.880	SM 40:1	C <sub>45</sub> H <sub>91</sub> N <sub>2</sub> O <sub>6</sub> P		0.553	0.230	1.230
Serum	cold vs. normal	773.620	725.554	0.880	SM 34:1	C <sub>39</sub> H <sub>79</sub> N <sub>2</sub> O <sub>6</sub> P		0.679	0.268	1.135
Serum	cold vs. hot	916.710	820.619	0.870	PC(O-18:0/22:6(4Z,7Z,10Z,13Z,16Z,19Z)C <sub>48</sub> H <sub>86</sub> NO <sub>7</sub> P			1.601	0.249	1.198
Serum	cold vs. hot	440.590	270.242	0.870	SPI_270.2429_14.9 N-deethylspiroxamin	C <sub>16</sub> H <sub>31</sub> NO <sub>2</sub>		0.381	0.197	1.208
Serum	cold vs. normal; hot vs. normal; RA vs. normal	493.630	544.336	0.870	plasmeryl-PC 18:0	C <sub>26</sub> H <sub>52</sub> NO <sub>7</sub> P		0.607	0.024	1.861
Serum	cold vs. normal	440.780	482.322	0.870	LysoPC(15:0) lysoPC 15:0 1-pentadecan	C <sub>23</sub> H <sub>48</sub> NO <sub>7</sub> P		1.491	0.071	1.578
Serum	cold vs. hot	1129.090	835.666	0.870	SM 42:2	C <sub>47</sub> H <sub>93</sub> N <sub>2</sub> O <sub>6</sub> P		3.114	0.014	1.992
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	553.100	523.264	0.870	(22E)-26,26,26,27,27,27-hexafluoro-1 $\alpha$ , $\omega$ -	C <sub>27</sub> H <sub>36</sub> F <sub>6</sub> O <sub>3</sub>		0.072	0.003	2.220
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	859.250	766.573	0.870	PC(18:3(6Z,9Z,12Z)/P-18:1(11Z)) PC(18C <sub>44</sub> H <sub>80</sub> NO <sub>7</sub> P			0.649	0.056	1.644
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	898.900	819.606	0.870	PG(17:0/22:1(11Z))	C <sub>45</sub> H <sub>87</sub> O <sub>10</sub> P		0.529	0.032	1.330
Serum	cold vs. hot	916.960	833.649	0.860	SM 42:3	C <sub>47</sub> H <sub>91</sub> N <sub>2</sub> O <sub>6</sub> P		1.904	0.090	1.694
Serum	cold vs. normal	695.600	251.200	0.860	7z,10z,13z-Hexadecatrienoic Acid	C <sub>16</sub> H <sub>26</sub> O <sub>2</sub>		1.560	0.198	1.306
Serum	cold vs. normal	271.760	313.155	1.000	Phe-Phe	C <sub>18</sub> H <sub>20</sub> N <sub>2</sub> O <sub>3</sub>	2577-40-4	2.041	0.154	1.343
Serum	cold vs. hot	435.030	542.323	0.860	lysoPC 18:2	C <sub>26</sub> H <sub>50</sub> NO <sub>7</sub> P		1.901	0.354	1.029
Serum	hot vs. normal; RA vs. normal; cold vs. hot	527.150	532.375	0.860	LysoPC(O-18:0) lysoPC 18:0 PC(O-18:0)C <sub>26</sub> H <sub>56</sub> NO <sub>6</sub> P			0.624	0.111	1.157
Serum	hot vs. normal; RA vs. normal; cold vs. hot	655.650	275.273	0.860	Isodigeranyl	C <sub>20</sub> H <sub>34</sub>	5981-30-6	0.591	0.115	1.583
Serum	hot vs. normal; RA vs. normal; cold vs. hot	861.140	819.607	0.860	PG(17:1(9Z)/22:0)	C <sub>45</sub> H <sub>87</sub> O <sub>10</sub> P		1.309	0.135	1.557
Serum	cold vs. normal	127.560	166.086	0.850	D-Phenylalanine	C <sub>9</sub> H <sub>11</sub> NO <sub>2</sub>	673-06-3	1.445	0.001	2.370
Serum	cold vs. hot; hot vs. normal; RA vs. normal	655.730	293.283	0.850	9R,10S-Epoxy-3Z,6Z-eicosadiene	C <sub>20</sub> H <sub>36</sub> O		0.562	0.160	1.474

Serum	cold vs. hot; hot vs. normal; RA vs. normal	501.090	280.263	0.850	Linoleamide	C <sub>18</sub> H <sub>33</sub> NO	3072-13-7	0.397	0.086	1.559
Serum	cold vs. normal	593.880	313.273	1.000	2,4-dihydroxyheptadecyl acetate	C <sub>19</sub> H <sub>38</sub> O <sub>4</sub>		0.509	0.269	1.218
Serum	cold vs. hot	984.610	836.669	0.850	SM d42:1 SM d16:0/26:1 SM(d16:0/26:1	C <sub>47</sub> H <sub>95</sub> N <sub>2</sub> O <sub>6</sub> P		0.455	0.146	1.609
Serum	cold vs. hot	801.090	802.535	0.850	PC 36:5	C <sub>44</sub> H <sub>78</sub> NO <sub>8</sub> P		0.680	0.233	1.126
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	1328.500	800.669	0.850	SM(d17:1/24:1(15Z))	C <sub>46</sub> H <sub>92</sub> N <sub>2</sub> O <sub>6</sub> P		0.690	0.180	1.227
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	523.030	534.390	0.850	CerP 28:1	C <sub>28</sub> H <sub>56</sub> NO <sub>6</sub> P		1.386	0.433	1.008
Serum	cold vs. normal	787.740	751.570	0.850	SM 36:2	C <sub>41</sub> H <sub>81</sub> N <sub>2</sub> O <sub>6</sub> P		0.395	0.061	1.604
Serum	cold vs. normal; hot vs. normal; RA vs. normal	729.740	723.540	0.840	SM 34:2	C <sub>39</sub> H <sub>77</sub> N <sub>2</sub> O <sub>6</sub> P		0.830	0.213	1.154
Serum	cold vs. hot	940.370	797.623	0.840	16:2-Glc-Campesterol	C <sub>50</sub> H <sub>84</sub> O <sub>7</sub>		0.698	0.327	1.135
Serum	cold vs. hot; hot vs. normal; RA vs. normal	512.930	228.232	0.840	Halaminol A	C <sub>14</sub> H <sub>29</sub> NO		0.436	0.024	1.965
Serum	cold vs. hot; hot vs. normal; RA vs. normal	924.110	795.607	0.840	16:3-Glc-Campesterol	C <sub>50</sub> H <sub>82</sub> O <sub>7</sub>		0.569	0.006	1.688
Serum	cold vs. hot; hot vs. normal; RA vs. normal	1329.030	788.616	0.830	PC(14:0/22:1(13Z)) PC(14:1(9Z)/22:0) P	C <sub>44</sub> H <sub>86</sub> NO <sub>8</sub> P		0.653	0.023	1.517
Serum	cold vs. hot	250.520	172.133	1.000	Gabapentin (JAN/USAN/INN) Neurontin	C <sub>9</sub> H <sub>17</sub> NO <sub>2</sub>	60142-96-3	0.261	0.277	1.062
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	621.630	679.472	0.830	PA(P-16:0/20:5(5Z,8Z,11Z,14Z,17Z))	C <sub>39</sub> H <sub>67</sub> O <sub>7</sub> P		1.709	0.035	1.905
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	572.770	706.463	0.830	PG 30:3 PG 13:1-17:2 PG(13:1/17:2)	C <sub>36</sub> H <sub>65</sub> O <sub>10</sub> P		1.579	0.056	1.697
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	890.430	789.608	0.830	PG(O-16:0/22:2(13Z,16Z))	C <sub>44</sub> H <sub>85</sub> O <sub>9</sub> P		0.484	0.032	1.773
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	717.080	697.523	0.830	SM 32:1	C <sub>37</sub> H <sub>75</sub> N <sub>2</sub> O <sub>6</sub> P		0.742	0.089	1.583
Serum	cold vs. normal	502.380	532.335	0.830	lysoPC 17:0	C <sub>25</sub> H <sub>52</sub> NO <sub>7</sub> P		1.226	0.131	1.342
Serum	RA vs. normal	432.240	318.239	1.000	Trihexyphenidyl N-oxide	C <sub>20</sub> H <sub>31</sub> NO <sub>2</sub>	161564-79-	1.793	0.099	1.184
Serum	cold vs. hot; RA vs. normal	534.630	188.127	0.820	(E)-2-Butenyl-4-methyl-threonine 2-Bute	C <sub>9</sub> H <sub>17</sub> NO <sub>3</sub>	81135-57-1	0.419	0.169	1.288
Serum	cold vs. hot	95.840	216.922	0.810	Methyl 2-propenyl pentasulfide	C <sub>4</sub> H <sub>8</sub> S <sub>5</sub>	118023-99-	1.392	0.287	1.018
Serum	hot vs. normal; RA vs. normal	618.050	564.437	0.810	CerP 30:0	C <sub>30</sub> H <sub>62</sub> NO <sub>6</sub> P		0.695	0.085	1.217
Serum	cold vs. hot	913.190	812.615	0.810	PC 36:0 PC(12:0/24:0)	C <sub>44</sub> H <sub>88</sub> NO <sub>8</sub> P		1.699	0.454	1.122
Serum	cold vs. hot	524.200	214.179	0.810	N-(9-Oxodecyl)acetamide	C <sub>12</sub> H <sub>23</sub> NO <sub>2</sub>		0.376	0.186	1.248
Serum	hot vs. normal; RA vs. normal	473.780	518.320	0.810	lysoPC 16:0	C <sub>24</sub> H <sub>50</sub> NO <sub>7</sub> P		0.712	0.114	1.016
Serum	hot vs. normal	501.330	320.255	1.000	N-hydroxy arachidonoyl amine	C <sub>20</sub> H <sub>33</sub> NO <sub>2</sub>		1.434	0.101	1.058
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	577.990	694.463	0.800	BMP 29:2 BMP 13:1-16:1 BMP(13:1/16:	C <sub>35</sub> H <sub>65</sub> O <sub>10</sub> P		1.186	0.492	1.173
Serum	cold vs. normal	530.440	546.351	0.800	lysoPC 18:0	C <sub>26</sub> H <sub>54</sub> NO <sub>7</sub> P		1.156	0.303	1.011
Serum	RA vs. normal	544.050	399.324	0.800	Calcitriol 1 $\alpha$ ,25-Dihydroxyvitamin D3(1'	C <sub>27</sub> H <sub>44</sub> O <sub>3</sub>	32222-06-3	0.774	0.147	1.083
Serum	cold vs. hot; hot vs. normal; RA vs. normal	1153.660	898.784	0.800	TG 54:5	C <sub>57</sub> H <sub>100</sub> O <sub>6</sub>		0.260	0.145	1.383
Serum	RA vs. normal	679.430	591.457	0.800	DG 34:6	C <sub>37</sub> H <sub>60</sub> O <sub>5</sub>		0.701	0.075	1.234
Serum	cold vs. hot	788.760	603.532	0.790	1-(14-methyl-pentadecanoyl)-2-(8-[3]-lac	C <sub>39</sub> H <sub>70</sub> O <sub>4</sub>		0.749	0.304	1.116
Serum	cold vs. normal	530.420	524.370	0.790	1-Stearoyl-Sn-Glycerol-3-Phosphocholin	C <sub>26</sub> H <sub>54</sub> NO <sub>7</sub> P	19420-57-6	1.116	0.067	1.560
Serum	cold vs. normal; hot vs. normal	876.490	816.587	0.790	PC(P-18:1(11Z)/22:6(4Z,7Z,10Z,13Z,16:	C <sub>48</sub> H <sub>82</sub> NO <sub>7</sub> P		0.492	0.233	1.211

Serum	cold vs. normal	603.780	329.246	1.000	Docosahexaenoic acid	C <sub>22</sub> H <sub>32</sub> O <sub>2</sub>	6217-54-5	1.758	0.249	1.058
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	676.710	673.526	0.790	SM d32:2 SM d14:1/18:1 SM(d14:1/18:1 C <sub>37</sub> H <sub>73</sub> N <sub>2</sub> O <sub>6</sub> P			1.395	0.303	1.038
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	928.420	748.610	0.790	DGTS 35:3 DGTS 14:1-21:2 DGTS(14:1 C <sub>45</sub> H <sub>81</sub> NO <sub>7</sub>			0.454	0.021	1.882
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	723.470	428.372	0.780	Sorbitane Monooleate - Polysorbate 80 in-source fragment			2.082	0.051	1.257
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	612.430	331.224	1.000	Deoxycorticosterone	C <sub>21</sub> H <sub>30</sub> O <sub>3</sub>	64-85-7	0.568	0.430	1.074
Serum	cold vs. normal	860.100	792.587	0.780	PC(P-16:0/22:5(4Z,7Z,10Z,13Z,16Z))	C <sub>46</sub> H <sub>82</sub> NO <sub>7</sub> P		0.488	0.173	1.277
Serum	cold vs. normal; RA vs. normal	827.840	766.536	0.780	PE 38:5	C <sub>43</sub> H <sub>76</sub> NO <sub>8</sub> P		0.589	0.234	1.095
Serum	cold vs. normal	305.310	169.049	0.780	3,4-Dihydroxyphenylacetate 3,4-Dihydro-	C <sub>8</sub> H <sub>8</sub> O <sub>4</sub>	102-32-9	2.431	0.186	1.247
Serum	hot vs. normal	281.640	381.198	0.780	Beraprost	C <sub>24</sub> H <sub>30</sub> O <sub>5</sub>	88475-69-8	0.531	0.168	1.022
Serum	cold vs. normal	578.590	695.466	0.780	methyl 13-sophorosyloxydocosanoate	C <sub>35</sub> H <sub>66</sub> O <sub>13</sub>		1.864	0.022	1.884
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	609.930	536.405	0.780	dl- $\alpha$ -Tocopherol nicotinate Tocopheryl ni	C <sub>35</sub> H <sub>53</sub> NO <sub>3</sub>	51898-34-1	1.795	0.301	1.131
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	383.780	359.287	0.780	15(R)-Pinane Thromboxane A2	C <sub>24</sub> H <sub>40</sub> O <sub>3</sub>		1.222	0.087	1.096
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	744.190	413.264	0.780	Bis(2-ethylhexyl)-phthalate	C <sub>24</sub> H <sub>38</sub> O <sub>4</sub>	117-81-7	0.729	0.473	1.020
Serum	cold vs. normal	464.160	544.338	0.780	lysoPC 20:4	C <sub>28</sub> H <sub>50</sub> NO <sub>7</sub> P		1.224	0.149	1.285
Serum	cold vs. hot; cold vs. normal	703.410	687.541	0.780	SM d33:2 SM d17:1/16:1 SM(d17:1/16:1 C <sub>38</sub> H <sub>75</sub> N <sub>2</sub> O <sub>6</sub> P			1.447	0.293	1.103
Serum	cold vs. hot; cold vs. normal	622.250	678.469	0.770	PS(P-16:0/13:0)	C <sub>35</sub> H <sub>68</sub> NO <sub>9</sub> P		1.753	0.025	1.974
Serum	cold vs. hot; cold vs. normal	414.530	643.283	0.770	(2alpha,5alpha,9alpha,10beta,14beta)-2,5	C <sub>33</sub> H <sub>48</sub> O <sub>10</sub>		2.050	0.156	1.365
Serum	cold vs. hot	696.830	477.392	0.770	Sarcoaldersterol A (3 $\beta$ ,5 $\alpha$ ,6 $\beta$ ,11 $\alpha$ )-Gorgos	C <sub>30</sub> H <sub>52</sub> O <sub>4</sub>		1.378	0.321	1.087
Serum	hot vs. normal; RA vs. normal	635.200	590.453	0.770	CerP 32:1	C <sub>32</sub> H <sub>64</sub> NO <sub>6</sub> P		0.640	0.083	1.213
Serum	hot vs. normal; RA vs. normal	854.570	816.588	0.770	PC(P-18:1(9Z))/22:6(4Z,7Z,10Z,13Z,16Z	C <sub>48</sub> H <sub>82</sub> NO <sub>7</sub> P		0.645	0.127	1.022
Serum	cold vs. normal	836.710	762.579	0.770	GlcADG 32:0 GlcADG 15:0-17:0 GlcADC <sub>41</sub>	H <sub>76</sub> O <sub>11</sub>		0.650	0.356	1.021
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	872.920	745.588	0.770	PE-Cer(d15:2(4E,6E)/24:0(2OH))	C <sub>41</sub> H <sub>81</sub> N <sub>2</sub> O <sub>7</sub> P		0.521	0.204	1.171
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	657.200	686.356	0.760	Avadharidine Aconitane-7,8-diol, 4-(((2-	C <sub>36</sub> H <sub>51</sub> N <sub>3</sub> O <sub>10</sub>	509-16-0	2.149	0.036	1.805
Serum	hot vs. normal	91.830	338.050	0.760	Famotidine	C <sub>8</sub> H <sub>15</sub> N <sub>7</sub> O <sub>2</sub> S <sub>3</sub>	76824-35-6	1.174	0.628	1.106
Serum	cold vs. hot; hot vs. normal; cold vs. normal; RA vs. normal	372.760	314.231	0.760	9-Decenoylcarnitine	C <sub>17</sub> H <sub>31</sub> NO <sub>4</sub>		2.294	0.071	1.737
Serum	cold vs. hot; hot vs. normal; cold vs. normal; RA vs. normal	635.380	816.701	0.760	HexCer-ADS d41:0 HexCer-ADS d27:0/	C <sub>47</sub> H <sub>93</sub> NO <sub>9</sub>		0.554	0.201	1.136
Serum	cold vs. hot; hot vs. normal; cold vs. normal; RA vs. normal	782.550	706.584	0.760	PC(O-16:0/15:0)	C <sub>39</sub> H <sub>80</sub> NO <sub>7</sub> P		1.399	0.292	1.041
Serum	cold vs. hot; hot vs. normal; cold vs. normal; RA vs. normal	393.130	387.179	0.760	Burseran (+) -Burseran	C <sub>22</sub> H <sub>26</sub> O <sub>6</sub>	23284-23-3	1.318	0.078	1.154
Serum	cold vs. hot	296.840	186.148	1.000	N-methyl-Gabapentin	C <sub>10</sub> H <sub>19</sub> NO <sub>2</sub>	102937-74-	0.286	0.236	1.126
Serum	hot vs. normal	896.030	719.576	0.750	PE-Cer(d15:1(4E)/22:0(2OH))	C <sub>39</sub> H <sub>79</sub> N <sub>2</sub> O <sub>7</sub> P		0.419	0.035	1.316
Serum	hot vs. normal	472.780	506.360	0.750	LysoPC(P-18:1(9Z)) PC(P-18:1(9Z)/0:0)	C <sub>26</sub> H <sub>52</sub> NO <sub>6</sub> P		0.756	0.195	1.049
Serum	RA vs. normal	696.330	816.702	0.750	HexCer-ADS d41:0 HexCer-ADS d21:0/	C <sub>47</sub> H <sub>93</sub> NO <sub>9</sub>		0.525	0.091	1.017
Serum	hot vs. normal; RA vs. normal; cold vs. hot	819.850	844.524	0.740	Scytophycin D	C <sub>45</sub> H <sub>75</sub> NO <sub>12</sub>		0.661	0.054	1.213
Serum	hot vs. normal; RA vs. normal; cold vs. hot	855.700	746.595	0.740	DGTS 35:4 DGTS 19:1-16:3	C <sub>45</sub> H <sub>79</sub> NO <sub>7</sub>		1.729	0.175	1.654

Serum	cold vs. hot	567.960	264.240	0.740	1,7-Dimethyl-7-(4-methyl-3-penten-1-yl)C <sub>15</sub> H <sub>26</sub> O	0.334	0.196	1.463		
Serum	cold vs. normal; hot vs. normal; RA vs. normal	894.240	825.559	0.740	MGDG 38:6	C <sub>47</sub> H <sub>78</sub> O <sub>10</sub>	0.112	0.066	1.589	
Serum	hot vs. normal	153.410	349.183	1.000	Enalaprilat Enalaprilate	C <sub>18</sub> H <sub>24</sub> N <sub>2</sub> O <sub>5</sub>	76420-72-9	0.475	0.160	1.158
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	855.080	745.619	0.740	SM d37:1 SM d18:1/19:0 SM(d18:1/19:0)	C <sub>42</sub> H <sub>85</sub> N <sub>2</sub> O <sub>6</sub> P	0.726	0.337	1.022	
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	379.960	583.254	0.740	Biliverdin	C <sub>33</sub> H <sub>34</sub> N <sub>4</sub> O <sub>6</sub>	114-25-0	0.424	0.046	1.222
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	566.520	652.443	0.740	PE 31:6e PE 22:6e/9:0 EtherPE 31:6e PE	C <sub>36</sub> H <sub>62</sub> NO <sub>7</sub> P	1.412	0.133	1.406	
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	810.810	820.524	0.740	SQDG 33:3 SQDG 14:1-19:2 SQDG(14:	C <sub>42</sub> H <sub>74</sub> O <sub>12</sub> S	0.588	0.079	1.571	
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	866.340	790.570	0.740	plasmeyl-PC 36:3	C <sub>44</sub> H <sub>82</sub> NO <sub>7</sub> P	0.437	0.130	1.400	
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	1072.260	814.687	0.730	TAG 48:5 TAG 13:0-15:0-20:5 TG 48:5	C <sub>51</sub> H <sub>88</sub> O <sub>6</sub>	1.485	0.319	1.083	
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	277.610	352.164	1.000	O-β-D-Xylosylzeatin O-β-D-Xyloxylzeati	C <sub>15</sub> H <sub>21</sub> N <sub>5</sub> O <sub>5</sub>	0.525	0.250	1.359	
Serum	cold vs. hot	687.060	343.263	0.730	4,7,10,13,16,19-Docosahexaenoic acid m	C <sub>23</sub> H <sub>34</sub> O <sub>2</sub>	2566-90-7	1.397	0.431	1.067
Serum	hot vs. normal	893.650	824.555	0.730	C18-OH Sulfatide	C <sub>42</sub> H <sub>81</sub> NO <sub>12</sub> S	0.288	0.004	1.663	
Serum	cold vs. normal	835.360	796.524	0.730	C16-OH Sulfatide	C <sub>40</sub> H <sub>77</sub> NO <sub>12</sub> S	0.180	0.062	1.586	
Serum	cold vs. hot	577.380	489.354	0.730	Euscaphic acid	C <sub>30</sub> H <sub>48</sub> O <sub>5</sub>	53155-25-2	1.537	0.173	1.302
Serum	cold vs. hot; hot vs. normal; RA vs. normal	943.770	773.648	0.730	PA(O-20:0/22:1(11Z))	C <sub>45</sub> H <sub>89</sub> O <sub>7</sub> P	0.251	0.031	1.939	
Serum	cold vs. hot	1149.000	872.768	0.730	TG 52:4	C <sub>55</sub> H <sub>98</sub> O <sub>6</sub>	0.393	0.265	1.183	
Serum	cold vs. hot	807.580	383.366	0.730	Campesterol CAMPESTEROL (24R)-ER	C <sub>28</sub> H <sub>48</sub> O	474-62-4	1.348	0.158	1.402
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	725.810	816.701	0.720	HexCer-NP t41:0 HexCer-NP t18:0/23:0	C <sub>47</sub> H <sub>93</sub> NO <sub>9</sub>	0.341	0.181	1.259	
Serum	cold vs. hot	453.720	265.142	0.720	Coronopilin	C <sub>15</sub> H <sub>20</sub> O <sub>4</sub>	2571-81-5	1.959	0.125	1.397
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	127.570	167.089	0.720	2-methyl-3-Pyrimidin-2-yl-Propionic Aci	C <sub>8</sub> H <sub>10</sub> N <sub>2</sub> O <sub>2</sub>	1.578	0.010	2.047	
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	984.270	814.686	0.720	HexCer-NP t41:1 HexCer-NP t21:1/20:0	C <sub>47</sub> H <sub>91</sub> NO <sub>9</sub>	0.378	0.030	1.357	
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	846.740	783.636	0.720	SM 38:0 SM(d16:0/22:0)	C <sub>43</sub> H <sub>89</sub> N <sub>2</sub> O <sub>6</sub> P	1.308	0.217	1.236	
Serum	cold vs. normal	478.000	592.335	0.720	lysoPC 22:5	C <sub>30</sub> H <sub>52</sub> NO <sub>7</sub> P	0.666	0.159	1.257	
Serum	cold vs. hot	652.210	491.369	0.720	Ganoderiol H	C <sub>30</sub> H <sub>50</sub> O <sub>5</sub>	114612-72-2	2.029	0.049	1.727
Serum	cold vs. normal	452.890	368.278	1.000	3, 5-Tetradecadiencarnitine	C <sub>21</sub> H <sub>37</sub> NO <sub>4</sub>	1.763	0.262	1.007	
Serum	cold vs. normal	618.420	421.330	0.710	6-Ethylchenodeoxycholic acid 6-ECDCA	C <sub>26</sub> H <sub>44</sub> O <sub>4</sub>	459789-99-2	2.201	0.066	1.709
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	635.590	244.190	0.710	2-(7-hydroxy-6-methyloctyl)-2H-furan-5-	C <sub>13</sub> H <sub>22</sub> O <sub>3</sub>	1.577	0.006	2.214	
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	706.340	295.263	0.710	9,12-Octadecadienoic acid (Z,Z)-, methyl	C <sub>19</sub> H <sub>34</sub> O <sub>2</sub>	112-63-0	0.771	0.094	1.088
Serum	cold vs. normal	1328.020	801.683	0.710	SM(d17:1/24:0)	C <sub>46</sub> H <sub>93</sub> N <sub>2</sub> O <sub>6</sub> P	1.168	0.302	1.047	
Serum	cold vs. hot	914.930	744.588	0.710	1-Hexadecanoyl-2-(9Z-octadecenoyl)-sn-	C <sub>42</sub> H <sub>83</sub> NO <sub>7</sub> P	1.480	0.162	1.296	
Serum	cold vs. normal	1020.540	369.351	1.000	Lathosterol 5α-Cholest-7-en-3β-ol	C <sub>27</sub> H <sub>46</sub> O	80-99-9	3.493	0.159	1.292
Serum	hot vs. normal	723.770	284.295	0.710	Stearamide		1.220	0.089	1.112	
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	941.720	774.653	0.700	HexCer-ADS d38:0 HexCer-ADS d25:0/	C <sub>44</sub> H <sub>87</sub> NO <sub>9</sub>	0.485	0.154	1.559	
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	566.520	651.440	0.700	Progesterone		1.385	0.167	1.294	
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	1000.540	650.643	0.700	N-Lignoceroylsphingosine	C <sub>42</sub> H <sub>83</sub> NO <sub>3</sub>	34435-05-7	0.510	0.123	1.544

Serum	cold vs. hot	582.120	419.314	0.700	(24R)-1 $\alpha$ ,24-dihydroxy-22-oxavitamin E	C <sub>26</sub> H <sub>42</sub> O <sub>4</sub>	1.526	0.300	1.031	
Serum	hot vs. normal; RA vs. normal	1107.190	870.753	0.700	TG 52:5	C <sub>55</sub> H <sub>96</sub> O <sub>6</sub>	2.027	0.059	1.244	
Serum	cold vs. normal	127.570	120.080	0.700	Indoline	C <sub>8</sub> H <sub>9</sub> N	496-15-1	1.382	0.031	1.778
Serum	cold vs. hot	612.660	281.247	0.690	$\beta$ -Linoleic acid	C <sub>18</sub> H <sub>32</sub> O <sub>2</sub>	60-33-3	2.312	0.013	2.007
Serum	cold vs. hot	686.280	463.377	0.690	2 $\alpha$ -(3-Hydroxypropyl)-1 $\alpha$ ,25-dihydroxy	C <sub>29</sub> H <sub>50</sub> O <sub>4</sub>		1.487	0.295	1.153
Serum	cold vs. normal	757.610	773.615	0.690	PA(21:0/20:1(11Z))	C <sub>44</sub> H <sub>85</sub> O <sub>8</sub> P		1.747	0.192	1.157
Serum	cold vs. normal; hot vs. normal; RA vs. normal	891.600	759.635	0.690	SM(d18:1/20:0)	C <sub>43</sub> H <sub>87</sub> N <sub>2</sub> O <sub>6</sub> P		0.384	0.023	1.878
Serum	cold vs. hot	760.260	323.293	0.690	Heneicosapentaenoic Acid-d6	C <sub>21</sub> H <sub>26</sub> D <sub>6</sub> O <sub>2</sub>		1.337	0.419	1.014
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	903.400	785.652	0.680	SM(d16:1/24:1(15Z))	C <sub>45</sub> H <sub>89</sub> N <sub>2</sub> O <sub>6</sub> P		0.522	0.028	1.950
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	708.120	771.599	0.680	PA(19:0/22:2(13Z,16Z))	C <sub>44</sub> H <sub>83</sub> O <sub>8</sub> P		2.273	0.001	2.346
Serum	cold vs. hot	571.850	374.301	1.000	Arachidonoylmorpholine	C <sub>24</sub> H <sub>39</sub> NO <sub>2</sub>		1.554	0.272	1.431
Serum	cold vs. hot; RA vs. normal; hot vs. normal; cold vs. normal	576.040	256.264	0.670	Altretamine			0.605	0.009	2.073
Serum	cold vs. hot; RA vs. normal; hot vs. normal; cold vs. normal	490.790	318.299	0.670	Phytosphingosine 4-D-Hydroxysphingani	C <sub>18</sub> H <sub>39</sub> NO <sub>3</sub>	554-62-1	0.344	0.263	1.094
Serum	cold vs. hot; RA vs. normal; hot vs. normal; cold vs. normal	569.110	814.687	0.670	HexCer-NP t41:1 HexCer-NP t24:1/17:0	C <sub>47</sub> H <sub>91</sub> NO <sub>9</sub>		0.461	0.232	1.227
Serum	cold vs. hot; RA vs. normal; hot vs. normal; cold vs. normal	452.220	200.200	0.660	Dodecanamide dodecanamide	C <sub>12</sub> H <sub>25</sub> NO		0.390	0.021	2.015
Serum	cold vs. hot; RA vs. normal; hot vs. normal; cold vs. normal	656.630	341.304	0.660	Glycidyl stearate	C <sub>21</sub> H <sub>40</sub> O <sub>3</sub>	7460-84-6	0.291	0.311	1.122
Serum	cold vs. hot; RA vs. normal; hot vs. normal; cold vs. normal	830.080	397.382	0.660	$\beta$ -Sitosterol Sitosterol Harzol (TN)  $\gamma$ -Sito	C <sub>29</sub> H <sub>50</sub> O	83-46-5 83-	1.545	0.394	1.084
Serum	cold vs. hot; RA vs. normal; hot vs. normal; cold vs. normal	701.040	745.583	0.660	PA(21:0/18:1(9Z))	C <sub>42</sub> H <sub>81</sub> O <sub>8</sub> P		2.097	0.012	2.026
Serum	cold vs. hot	941.310	780.587	0.660	PE(22:4(7Z,10Z,13Z,16Z)/P-18:0)	C <sub>45</sub> H <sub>82</sub> NO <sub>7</sub> P		0.151	0.218	1.186
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	846.950	861.667	0.660	PG(20:1(11Z)/22:0)	C <sub>48</sub> H <sub>93</sub> O <sub>10</sub> P		1.489	0.192	1.245
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	607.870	305.247	0.660	Mesterolone	C <sub>20</sub> H <sub>32</sub> O <sub>2</sub>	1424-00-6	1.872	0.096	1.499
Serum	cold vs. hot	556.730	376.317	1.000	N-(1,1-dimethyl-2-hydroxy-ethyl) arachidic	C <sub>24</sub> H <sub>41</sub> NO <sub>2</sub>		1.264	0.373	1.099
Serum	cold vs. hot; cold vs. normal	603.700	585.269	0.650	Bilirubin 4E,15Z-Bilirubin IXa	C <sub>33</sub> H <sub>36</sub> N <sub>4</sub> O <sub>6</sub>	635-65-4 69.0	0.706	0.240	1.554
Serum	cold vs. normal	789.680	815.698	0.650	SM(d18:0/24:1(15Z))	C <sub>47</sub> H <sub>95</sub> N <sub>2</sub> O <sub>6</sub> P		0.527	0.282	1.045
Serum	cold vs. hot; RA vs. normal	142.200	193.101	0.650	Cotinine N-oxide	C <sub>10</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub>	36508-80-2	0.676	0.351	1.079
Serum	cold vs. hot	574.200	378.268	1.000	Karakoline Aconitane-1,8,14-triol, 20-eth	C <sub>22</sub> H <sub>35</sub> NO <sub>4</sub>	39089-30-0	0.682	0.264	1.177
Serum	cold vs. hot	858.250	809.651	0.650	SM 40:1	C <sub>45</sub> H <sub>91</sub> N <sub>2</sub> O <sub>6</sub> P		1.547	0.040	1.853
Serum	hot vs. normal	343.240	226.180	0.650	(8S,Z)-6-((S)-3-hydroxy-2-methylpropyl)	C <sub>13</sub> H <sub>23</sub> NO <sub>2</sub>		1.699	0.003	1.713
Serum	cold vs. normal; RA vs. normal; cold vs. hot; hot vs. normal	786.200	767.544	0.640	Finasteride			0.643	0.259	1.029
Serum	cold vs. normal; RA vs. normal; cold vs. hot; hot vs. normal	700.970	746.587	0.640	MGDG 32:1	C <sub>41</sub> H <sub>76</sub> O <sub>10</sub>		2.492	0.007	2.109
Serum	cold vs. normal; RA vs. normal; cold vs. hot; hot vs. normal	657.460	359.314	0.640	Hexadecyl Acetyl Glycerol	C <sub>21</sub> H <sub>42</sub> O <sub>4</sub>	77133-35-8	0.257	0.318	1.118
Serum	cold vs. normal; RA vs. normal; cold vs. hot; hot vs. normal	840.230	757.619	0.640	SM d38:2 SM d15:2/23:0 SM(d15:2/23:0	C <sub>43</sub> H <sub>85</sub> N <sub>2</sub> O <sub>6</sub> P		0.512	0.056	1.620
Serum	cold vs. hot	585.980	405.299	0.640	MG(22:5(7Z,10Z,13Z,16Z,19Z)/0:0/0:0)	C <sub>25</sub> H <sub>40</sub> O <sub>4</sub>		0.586	0.337	1.260
Serum	cold vs. hot	351.790	466.315	0.640	Glycocholic acid	C <sub>26</sub> H <sub>43</sub> NO <sub>6</sub>	475-31-0	0.243	0.299	1.064
Serum	cold vs. normal	271.570	315.159	0.640	Clomipramine Clomipramine (INN) Anaf	C <sub>19</sub> H <sub>23</sub> ClN <sub>2</sub>	303-49-1	1.558	0.258	1.072

Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	358.040	586.273	0.640	PS 20:2 PS 3:0-17:2 PS(3:0/17:2)	C <sub>26</sub> H <sub>46</sub> NO <sub>10</sub> P	1.980	0.281	1.042	
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	826.180	754.587	0.640	HexCer-AS d37:3 HexCer-AS d21:1/16:2	C <sub>43</sub> H <sub>79</sub> NO <sub>9</sub>	1.670	0.218	1.610	
Serum	cold vs. hot	167.010	393.209	1.000	Dexamethasone	C <sub>22</sub> H <sub>29</sub> FO <sub>5</sub>	1950/2/2	3.947	0.183	1.266
Serum	cold vs. normal; hot vs. normal; RA vs. normal	610.970	814.686	0.640	HexCer-AS d41:1 HexCer-AS d21:1/20:1	C <sub>47</sub> H <sub>91</sub> NO <sub>9</sub>	0.426	0.131	1.315	
Serum	cold vs. normal	626.150	445.330	0.630	(3β,5α,6β,9α,22E,24R)-5,9-Epidioxysteroid	C <sub>28</sub> H <sub>44</sub> O <sub>4</sub>	348611-57-1	1.417	0.263	1.163
Serum	cold vs. hot; cold vs. normal	1328.190	813.683	0.630	SM(d18:1/24:1(15Z))	C <sub>47</sub> H <sub>93</sub> N <sub>2</sub> O <sub>6</sub> P	1.212	0.155	1.402	
Serum	RA vs. normal	713.640	717.552	0.630	PA(15:0/22:1(11Z))	C <sub>40</sub> H <sub>77</sub> O <sub>8</sub> P	0.835	0.155	1.019	
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	943.990	646.612	0.630	Cer-NS d42:3; Cer-NS d19:3/23:0	C <sub>42</sub> H <sub>79</sub> NO <sub>3</sub>	0.584	0.020	1.898	
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	614.500	401.344	1.000	7-Ketocholesterol	C <sub>27</sub> H <sub>44</sub> O <sub>2</sub>	566-28-9	2.255	0.053	1.711
Serum	cold vs. normal	832.870	805.554	0.630	NBD-Stearoyl-2-Arachidonoyl-sn-glycerol	C <sub>47</sub> H <sub>74</sub> N <sub>4</sub> O <sub>8</sub>	0.712	0.517	1.058	
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	753.040	719.568	0.630	PA(15:0/22:0)	C <sub>40</sub> H <sub>79</sub> O <sub>8</sub> P	0.842	0.580	1.066	
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	1116.860	896.768	0.630	TG 54:6	C <sub>57</sub> H <sub>98</sub> O <sub>6</sub>	2.612	0.032	1.351	
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	796.870	717.589	0.630	PA(O-18:0/20:1(11Z))	C <sub>41</sub> H <sub>81</sub> O <sub>7</sub> P	0.722	0.040	1.814	
Serum	cold vs. hot	427.840	291.271	0.620	Aphidicolan-16β-ol aphidicolan-16β-ol	C <sub>20</sub> H <sub>34</sub> O	101143-85-0	0.489	0.298	1.012
Serum	cold vs. hot; RA vs. normal; cold vs. hot; cold vs. normal	758.750	463.377	0.620	(3β,22R,23R,24S)-3,22,23-Trihydroxysteroid	C <sub>29</sub> H <sub>50</sub> O <sub>4</sub>	90524-90-6	1.560	0.300	1.169
Serum	cold vs. hot; RA vs. normal; cold vs. hot; cold vs. normal	753.110	720.571	0.610	MGDG 30:0	C <sub>39</sub> H <sub>74</sub> O <sub>10</sub>	0.854	0.614	1.054	
Serum	cold vs. hot	1130.860	922.783	0.610	TG 56:7	C <sub>59</sub> H <sub>100</sub> O <sub>6</sub>	0.385	0.300	1.110	
Serum	hot vs. normal; RA vs. normal	786.680	729.589	0.610	N-Oleoyl-D-sphingomyelin	C <sub>41</sub> H <sub>81</sub> N <sub>2</sub> O <sub>6</sub> P	108392-10-0	0.764	0.068	1.146
Serum	cold vs. hot	567.790	263.236	0.610	2-(5,8-Tetradecadienyl)cyclobutanone	C <sub>18</sub> H <sub>30</sub> O	152245-81-0	0.376	0.156	1.392
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	496.310	298.273	0.610	3-ketosphingosine	C <sub>18</sub> H <sub>35</sub> NO <sub>2</sub>	0.393	0.107	1.484	
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	974.570	789.675	0.610	SM(d18:0/22:0)	C <sub>45</sub> H <sub>93</sub> N <sub>2</sub> O <sub>6</sub> P	0.396	0.278	1.166	
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	629.840	447.345	0.600	3-Dehydroteasterone	C <sub>28</sub> H <sub>46</sub> O <sub>4</sub>	1.595	0.218	1.160	
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	548.430	636.421	0.600	SM d28:3 SM d16:3/12:0 SM(d16:3/12:0)	C <sub>33</sub> H <sub>63</sub> N <sub>2</sub> O <sub>6</sub> P	1.683	0.100	1.597	
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	888.330	760.638	0.600	HexCer-ADS d37:0 HexCer-ADS d19:0/	C <sub>43</sub> H <sub>85</sub> NO <sub>9</sub>	0.337	0.076	1.516	
Serum	cold vs. hot	907.970	811.667	0.600	SM 40:0	C <sub>45</sub> H <sub>93</sub> N <sub>2</sub> O <sub>6</sub> P	1.618	0.280	1.193	
Serum	hot vs. normal; RA vs. normal; cold vs. hot; cold vs. normal	1219.750	848.769	0.600	TG 50:2	C <sub>53</sub> H <sub>98</sub> O <sub>6</sub>	1.889	0.128	1.240	
Serum	hot vs. normal; RA vs. normal; cold vs. hot; cold vs. normal	1328.310	787.667	0.590	SM d40:1 SM d24:1/16:0 SM(d24:1/16:0)	C <sub>45</sub> H <sub>91</sub> N <sub>2</sub> O <sub>6</sub> P	0.730	0.234	1.304	
Serum	cold vs. hot	324.550	200.164	1.000	11-nitro-1-undecene	C <sub>11</sub> H <sub>21</sub> NO <sub>2</sub>	0.311	0.250	1.094	
Serum	hot vs. normal; RA vs. normal; cold vs. normal; RA vs. normal	797.540	719.596	0.590	PA(O-18:0/20:0)	C <sub>41</sub> H <sub>83</sub> O <sub>7</sub> P	0.683	0.006	1.603	
Serum	hot vs. normal; RA vs. normal; cold vs. normal; RA vs. normal	486.430	440.312	0.590	PE(O-16:0/0:0)	C <sub>21</sub> H <sub>46</sub> NO <sub>6</sub> P	1.491	0.150	1.262	
Serum	cold vs. hot	524.020	230.174	0.590	2-(6-hydroxy-6-methylheptyl)-2H-furan-	C <sub>12</sub> H <sub>20</sub> O <sub>3</sub>	0.387	0.163	1.296	
Serum	hot vs. normal	435.630	500.275	0.590	lysoPE 18:2	C <sub>23</sub> H <sub>44</sub> NO <sub>7</sub> P	1.611	0.141	1.001	
Serum	RA vs. normal	692.410	449.361	0.580	Typhasterol 2-Deoxycastasterone	C <sub>28</sub> H <sub>48</sub> O <sub>4</sub>	87734-68-7	1.516	0.122	1.034
Serum	cold vs. hot	704.960	862.624	0.580	Lactosylceramide (d18:1/16:0) C16 Lact	C <sub>46</sub> H <sub>87</sub> NO <sub>13</sub>	0.906	0.664	1.001	

Serum	cold vs. normal	707.220	405.371	0.580	5 $\alpha$ -Cholestan-5 $\alpha$ ,6 $\beta$ -diol	C <sub>27</sub> H <sub>48</sub> O <sub>2</sub>	1.813	0.157	1.275	
Serum	cold vs. hot	183.000	438.238	1.000	Lunarine	C <sub>25</sub> H <sub>31</sub> N <sub>3</sub> O <sub>4</sub>	24185-51-1	3.346	0.223	1.198
Serum	cold vs. hot; hot vs. normal; RA vs. normal	357.870	585.270	0.580	4Z,15E-Bilirubin IXa	C <sub>33</sub> H <sub>36</sub> N <sub>4</sub> O <sub>6</sub>	1.984	0.285	1.036	
Serum	hot vs. normal	983.500	813.684	0.570	SM d42:2 SM d20:0/22:2 SM(d20:0/22:2	C <sub>47</sub> H <sub>93</sub> N <sub>2</sub> O <sub>6</sub> P	0.272	0.002	1.795	
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	525.410	352.245	0.570	Dutasteride		0.459	0.173	1.330	
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	472.850	548.358	0.570	DGTS 21:5 DGTS 3:0-18:5 DGTS(3:0/1	C <sub>31</sub> H <sub>49</sub> NO <sub>7</sub>	1.372	0.303	1.066	
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	942.720	799.667	0.570	Levothyroxine sodium anhydrous Levoth	C <sub>15</sub> H <sub>10</sub> I <sub>4</sub> NO <sub>4</sub> ·Na	1955/3/8	3.257	0.128	1.326
Serum	cold vs. hot; hot vs. normal; RA vs. normal; cold vs. normal	695.730	815.698	0.560	SM d42:1 SM d27:0/15:1 SM(d27:0/15:1	C <sub>47</sub> H <sub>95</sub> N <sub>2</sub> O <sub>6</sub> P	0.607	0.118	1.026	
Serum	hot vs. normal	183.880	453.209	1.000	Dihydrogeranylgeranyl diphosphate	C <sub>20</sub> H <sub>38</sub> O <sub>7</sub> P <sub>2</sub>	0.302	0.046	1.296	
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	776.760	705.581	0.560	SM(d18:0/16:0)	C <sub>39</sub> H <sub>81</sub> N <sub>2</sub> O <sub>6</sub> P	0.545	0.164	1.314	
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	797.100	718.592	0.550	HexCer-NP t34:0 HexCer-NP t22:0/12:0	C <sub>40</sub> H <sub>79</sub> NO <sub>9</sub>	0.726	0.028	1.898	
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	545.830	468.344	1.000	lysoPE 18:0 PE(O-18:0/0:0)	C <sub>23</sub> H <sub>50</sub> NO <sub>6</sub> P	1.816	0.047	1.665	
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	600.820	703.537	0.550	PA(14:0/22:1(11Z))	C <sub>39</sub> H <sub>75</sub> O <sub>8</sub> P	1.858	0.007	2.261	
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	824.470	732.604	0.550	HexCer-ADS d35:0 HexCer-ADS d18:0/	C <sub>41</sub> H <sub>81</sub> NO <sub>9</sub>	0.677	0.094	1.510	
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	744.070	689.558	0.550	PA(P-20:0/16:0)	C <sub>39</sub> H <sub>77</sub> O <sub>7</sub> P	0.870	0.343	1.075	
Serum	cold vs. normal; hot vs. normal; RA vs. normal; cold vs. hot	637.510	282.278	0.540	Elaidamide	C <sub>18</sub> H <sub>35</sub> NO	4303-70-2	0.399	0.039	1.858
Serum	cold vs. normal	682.100	519.403	0.540	Ganoderiol C	C <sub>32</sub> H <sub>54</sub> O <sub>5</sub>	114567-44-2	2.107	0.178	1.193
Serum	cold vs. normal; hot vs. normal; cold vs. hot; RA vs. normal	604.790	678.469	0.540	SM d31:3 SM d18:2/13:1 SM(d18:2/13:1	C <sub>36</sub> H <sub>69</sub> N <sub>2</sub> O <sub>6</sub> P	1.536	0.090	1.484	
Serum	cold vs. normal; hot vs. normal; cold vs. hot; RA vs. normal	534.580	172.132	0.540	Gabapentin (Neurontin)		60142-96-3	0.416	0.178	1.283
Serum	cold vs. normal; hot vs. normal; cold vs. hot; RA vs. normal	1100.850	844.737	0.540	TG 50:4	C <sub>53</sub> H <sub>94</sub> O <sub>6</sub>	0.468	0.289	1.101	
Serum	hot vs. normal	504.900	466.327	0.540	PE(O-18:1(9Z)/0:0)	C <sub>23</sub> H <sub>48</sub> NO <sub>6</sub> P	1.372	0.137	1.202	
Serum	hot vs. normal; RA vs. normal	612.100	339.288	0.540	Glycidyl oleate	C <sub>21</sub> H <sub>38</sub> O <sub>3</sub>	5431-33-4	0.594	0.063	1.344
Serum	hot vs. normal	203.030	481.261	1.000	Alangicine	C <sub>28</sub> H <sub>36</sub> N <sub>2</sub> O <sub>5</sub>	16531-04-7	0.379	0.080	1.277
Serum	cold vs. normal; hot vs. normal; RA vs. normal	734.490	815.698	0.530	SM d42:1 SM d14:1/28:0 SM(d14:1/28:0	C <sub>47</sub> H <sub>95</sub> N <sub>2</sub> O <sub>6</sub> P	0.350	0.020	1.900	
Serum	cold vs. normal; hot vs. normal; RA vs. normal	770.940	703.574	0.530	SM(d18:0/16:1(9Z))	C <sub>39</sub> H <sub>79</sub> N <sub>2</sub> O <sub>6</sub> P	0.790	0.096	1.068	
Serum	cold vs. normal; hot vs. normal; RA vs. normal	142.200	211.131	0.530	Cymather aldehyde methyl ester		1.337	0.063	1.171	
Serum	cold vs. normal	621.790	465.355	0.530	Castasterone	C <sub>28</sub> H <sub>48</sub> O <sub>5</sub>	80736-41-0	1.989	0.004	2.288
Serum	cold vs. normal; hot vs. normal; RA vs. normal	695.860	801.683	0.530	SM d41:1 SM d21:0/20:1 SM(d21:0/20:1	C <sub>46</sub> H <sub>93</sub> N <sub>2</sub> O <sub>6</sub> P	0.317	0.192	1.243	
Serum	cold vs. normal; hot vs. normal; RA vs. normal	433.200	379.313	0.530	5 $\beta$ -Cholane-3 $\alpha$ ,6 $\alpha$ ,24-triol	C <sub>24</sub> H <sub>42</sub> O <sub>3</sub>	1.279	0.077	1.138	
Serum	cold vs. normal; hot vs. normal; RA vs. normal	846.720	774.541	0.530	PE(22:6(4Z,7Z,10Z,13Z,16Z,19Z)/P-18:	C <sub>45</sub> H <sub>76</sub> NO <sub>7</sub> P	0.505	0.069	1.583	
Serum	hot vs. normal	90.360	348.079	0.530	2-Hydroxyzotepine	C <sub>18</sub> H <sub>18</sub> ClNO <sub>2</sub> S	78105-26-7	1.355	0.303	1.106
Serum	cold vs. normal	818.700	722.510	0.520	plasmeryl-PE 36:5	C <sub>41</sub> H <sub>72</sub> NO <sub>7</sub> P	0.431	0.254	1.056	
Serum	cold vs. normal	824.190	731.604	0.520	Ubiquinol QH2 CoQH2	C <sub>14</sub> H <sub>20</sub> O <sub>4</sub> (C <sub>5</sub> H <sub>8</sub> ) <sub>n</sub>	56275-39-9	0.707	0.268	1.085
Serum	cold vs. hot	652.770	563.426	0.520	SM 24:1	C <sub>29</sub> H <sub>59</sub> N <sub>2</sub> O <sub>6</sub> P	1.613	0.165	1.344	
Serum	cold vs. normal; RA vs. normal	601.000	704.540	0.520	MGDG 29:1	C <sub>38</sub> H <sub>70</sub> O <sub>10</sub>	1.530	0.036	1.738	

Serum	hot vs. normal	668.750	522.391	0.520	CerP 27:0	C <sub>27</sub> H <sub>56</sub> NO <sub>6</sub> P	0.755	0.149	1.029	
Serum	cold vs. hot; cold vs. normal	836.030	748.526	0.520	plasmeyl-PE 38:6	C <sub>43</sub> H <sub>74</sub> NO <sub>7</sub> P	0.708	0.227	1.169	
Serum	cold vs. normal	730.580	702.562	0.510	TAG 40:5 TAG 12:3-13:1-15:1 TG 40:5	C <sub>43</sub> H <sub>72</sub> O <sub>6</sub>	0.904	0.208	1.145	
Serum	cold vs. hot	748.040	702.561	0.510	HexCer-AS d33:1 HexCer-AS d14:1/19:(	C <sub>39</sub> H <sub>75</sub> NO <sub>9</sub>	1.852	0.175	1.270	
Serum	cold vs. normal; hot vs. normal; RA vs. normal	861.160	429.371	0.510	Mangiferdesmethylursanone	C <sub>29</sub> H <sub>48</sub> O <sub>2</sub>	259144-62-	0.651	0.153	1.274
Serum	cold vs. normal; hot vs. normal; RA vs. normal	744.300	345.283	0.510	23-hydroxy-24,25,26,27-tetranorvitamin	C <sub>23</sub> H <sub>36</sub> O <sub>2</sub>	0.763	0.209	1.442	
Serum	cold vs. hot	874.510	797.651	0.510	SM 39:0	C <sub>44</sub> H <sub>91</sub> N <sub>2</sub> O <sub>6</sub> P	1.369	0.236	1.161	
Serum	cold vs. hot; cold vs. normal	708.000	503.408	0.510	(20S)-1 $\alpha$ ,25-dihydroxy-20-methoxy-26,2	C <sub>32</sub> H <sub>54</sub> O <sub>4</sub>	1.502	0.239	1.135	
Serum	RA vs. normal	612.820	801.683	0.500	SM d41:1 SM d14:0/27:1 SM(d14:0/27:1	C <sub>46</sub> H <sub>93</sub> N <sub>2</sub> O <sub>6</sub> P	0.569	0.063	1.164	
Serum	cold vs. normal; RA vs. normal	568.820	813.683	0.500	SM d42:2 SM d27:1/15:1 SM(d27:1/15:1	C <sub>47</sub> H <sub>93</sub> N <sub>2</sub> O <sub>6</sub> P	0.408	0.025	1.859	
Serum	cold vs. hot	397.300	209.117	0.500	$\alpha$ -Asaron trans-Isoasaron  $\alpha$ -Asarone	C <sub>12</sub> H <sub>16</sub> O <sub>3</sub>	2883-98-9	2.328	0.071	1.612
Serum	hot vs. normal; RA vs. normal; cold vs. hot; cold vs. normal	1190.710	898.783	0.500	TAG 54:5 TAG 18:1-18:2-18:2 TG 54:5	C <sub>57</sub> H <sub>100</sub> O <sub>6</sub>	2.280	0.105	1.076	
Serum	hot vs. normal; RA vs. normal; cold vs. hot; cold vs. normal	254.650	569.313	1.000	5-Oxoavermectin "1b" aglycone	C <sub>33</sub> H <sub>44</sub> O <sub>8</sub>	2.770	0.305	1.063	
Serum	hot vs. normal; RA vs. normal; cold vs. hot; cold vs. normal	419.890	573.302	1.000	PI(16:0/0:0)	C <sub>25</sub> H <sub>49</sub> O <sub>12</sub> P	1.889	0.162	1.304	
Serum	hot vs. normal; RA vs. normal; cold vs. hot; cold vs. normal	265.330	613.340	1.000	PI(19:1(9Z)/0:0)	C <sub>28</sub> H <sub>53</sub> O <sub>12</sub> P	3.275	0.213	1.226	
Serum	hot vs. normal; RA vs. normal; cold vs. hot; cold vs. normal	286.550	639.226	1.000	4'-Hydroxy-5,7,2'-trimethoxyflavanone 4'	C <sub>30</sub> H <sub>38</sub> O <sub>15</sub>	2.243	0.081	1.531	
Serum	hot vs. normal; RA vs. normal; cold vs. hot; cold vs. normal	770.390	701.339	1.000	Posaconazole (JAN/USAN/INN) Noxafil	C <sub>37</sub> H <sub>42</sub> F <sub>2</sub> N <sub>8</sub> O <sub>4</sub>	171228-49-	1.238	0.232	1.316
Serum	hot vs. normal; RA vs. normal; cold vs. hot; cold vs. normal	1327.940	827.698	1.000	SM d43:2 SM d16:1/27:1 SM(d16:1/27:1	C <sub>48</sub> H <sub>95</sub> N <sub>2</sub> O <sub>6</sub> P	1.795	0.025	1.922	
Serum	cold vs. hot	1220.360	853.723	1.000	TG 50:2	C <sub>53</sub> H <sub>98</sub> O <sub>6</sub>	0.505	0.241	1.140	
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	809.960	768.552	1.000	PC(22:4(7Z,10Z,13Z,16Z)/13:0)	C <sub>43</sub> H <sub>78</sub> NO <sub>8</sub> P	1.304	0.211	1.188	
Serum	cold vs. hot; cold vs. normal; hot vs. normal; RA vs. normal	486.880	610.368	1.000	PC(16:0/5:0(COOH))	C <sub>29</sub> H <sub>56</sub> NO <sub>10</sub> P	1.979	0.023	1.862	

**Table S4.2. Significantly differential metabolites of serum and synovial fluid samples from RA-Cold and RA-Hot patients detected by LC/MS**

Sample type	Groups	Types	English Name	Molecular Formula	CAS No.	FC	P (T test)	VIP
Synovial fluid	RA-Cold vs. RA-Hot	Steroids	Glycodeoxycholic acid	C <sub>26</sub> H <sub>43</sub> NO <sub>5</sub>	360-65-6	0.446	0.049	1.105
Synovial fluid	RA-Cold vs. RA-Hot	Indoles	Indoxyl sulfate	C <sub>8</sub> H <sub>7</sub> NO <sub>4</sub> S	2642-37-7	2.44	0.039	1.152
Synovial fluid	RA-Cold vs. RA-Hot	Amino acids	Phenylacetyl-L-glutamine	C <sub>13</sub> H <sub>16</sub> N <sub>2</sub> O <sub>4</sub>	28047-15-6	3.012	0.032	1.191
Synovial fluid	RA-Cold vs. RA-Hot	Others	p-Tolyl Sulfate	C <sub>7</sub> H <sub>8</sub> O <sub>4</sub> S	91978-69-7	4.715	0.033	1.188
Synovial fluid	RA-Cold vs. RA-Hot	Sphingolipids	Hexadecaspheganine	C <sub>16</sub> H <sub>35</sub> NO <sub>2</sub>		0.453	0.049	1.103
Synovial fluid	RA-Cold vs. RA-Hot	Phospholipids	PI(12:0/22:2(13Z,16Z))	C <sub>43</sub> H <sub>79</sub> O <sub>13</sub> P		2.043	0.02	1.287
Synovial fluid	RA-Cold vs. RA-Hot	Fatty acids	Montecristin	C <sub>37</sub> H <sub>66</sub> O <sub>4</sub>	185336-15-6	4.163	0.022	1.315
Serum	RA-Cold vs. RA-Hot	Others	AFMK	C <sub>13</sub> H <sub>16</sub> N <sub>2</sub> O <sub>4</sub>	52450-38-1	3.91	0.002	2.367
Serum	RA-Cold vs. RA-Hot	Fatty acids	Stearamide	C <sub>18</sub> H <sub>37</sub> NO	124-26-5	0.12	0.008	2.093
Serum	RA-Cold vs. RA-Hot	Sphingolipids	SM 42:2	C <sub>47</sub> H <sub>93</sub> N <sub>2</sub> O <sub>6</sub> P		3.114	0.014	1.992
Serum	RA-Cold vs. RA-Hot	Terpenoids	Ganoderiol H	C <sub>30</sub> H <sub>50</sub> O <sub>5</sub>	114612-72-5	2.029	0.049	1.727
Serum	RA-Cold vs. RA-Hot	Fatty acids	β-Linoleic acid	C <sub>18</sub> H <sub>32</sub> O <sub>2</sub>	60-33-3	2.312	0.013	2.007
Serum	RA-Cold vs. RA-Hot	Sphingolipids	SM 40:1	C <sub>45</sub> H <sub>91</sub> N <sub>2</sub> O <sub>6</sub> P		1.547	0.04	1.853
Synovial fluid	RA-Cold vs. NC	Phospholipids	PE(18:2(9Z,12Z)/0:0)	C <sub>23</sub> H <sub>44</sub> NO <sub>7</sub> P	85046-18-0	0.462	0.017	1.137
Synovial fluid	RA-Cold vs. NC	Phospholipids	LysoPE 20:3	C <sub>25</sub> H <sub>46</sub> NO <sub>7</sub> P		2.079	0.004	1.323
Synovial fluid	RA-Cold vs. NC	Fatty acids	Cis-9,10-Epoxy stearic acid	C <sub>18</sub> H <sub>34</sub> O <sub>3</sub>	2443-39-2	0.312	0.021	1.072
Synovial fluid	RA-Cold vs. NC	Steroids	Pubescenol	C <sub>28</sub> H <sub>42</sub> O <sub>6</sub>	90685-93-1	0.389	0.012	1.208
Synovial fluid	RA-Cold vs. NC	Phospholipids	PE 40:7e	C <sub>45</sub> H <sub>78</sub> NO <sub>7</sub> P		0.403	0.017	1.109
Synovial fluid	RA-Cold vs. NC	Ceramides	HexCer-ADS d37:2	C <sub>43</sub> H <sub>81</sub> NO <sub>9</sub>		0.495	0.021	1.071
Synovial fluid	RA-Cold vs. NC	Ceramides	Cer-BDS d46:9	C <sub>46</sub> H <sub>75</sub> NO <sub>4</sub>		3.051	0.02	1.082
Synovial fluid	RA-Cold vs. NC	Ceramides	HexCer-ADS d35:0; HexCer-ADS	C <sub>41</sub> H <sub>81</sub> NO <sub>9</sub>		0.42	0.026	1.044
Synovial fluid	RA-Cold vs. NC	Ceramides	HexCer-AS d39:4	C <sub>45</sub> H <sub>81</sub> NO <sub>9</sub>		0.342	0.028	1.094
Synovial fluid	RA-Cold vs. NC	Terpenoids	Gibberellic acid	C <sub>19</sub> H <sub>22</sub> O <sub>6</sub>	28281	0.133	0.012	1.106
Synovial fluid	RA-Cold vs. NC	Ceramides	Cer 36:1	C <sub>36</sub> H <sub>71</sub> NO <sub>3</sub>		0.248	0.027	1.034
Synovial fluid	RA-Cold vs. NC	Ceramides	HexCer-AS d37:2; HexCer-AS d21C	C <sub>43</sub> H <sub>81</sub> NO <sub>9</sub>		0.289	0.01	1.201
Synovial fluid	RA-Cold vs. NC	Sphingolipids	SM d39:1	C <sub>44</sub> H <sub>89</sub> N <sub>2</sub> O <sub>6</sub> P		2.303	0.005	1.238

Synovial fluid	RA-Cold vs. NC	Ceramides	Cer 40:2	$C_{40}H_{77}NO_3$		0.171	0.005	1.239
Synovial fluid	RA-Cold vs. NC	Ceramides	HexCer-NDS d42:1	$C_{48}H_{93}NO_8$		0.44	0.005	1.198
Synovial fluid	RA-Cold vs. NC	Fatty acids	Pinolenic Acid	$C_{18}H_{30}O_2$	16833-54-8	0.431	0.032	1.001
Synovial fluid	RA-Cold vs. NC	Phospholipids	PC(12:0/19:0)	$C_{39}H_{78}NO_8P$		2.013	0.019	1.073
Synovial fluid	RA-Cold vs. NC	Others	$\alpha$ -Tocopherol	$C_{29}H_{50}O_2$	59-02-9 10191-41-0	2.888	0.002	1.454
Serum	RA-Cold vs. NC	Phospholipids	PC 16:0-22:7	$C_{47}H_{80}NO_8P$		2.598	0.017	1.978
Serum	RA-Cold vs. NC	Fatty acids	$\alpha$ -Linolenic acid	$C_{18}H_{30}O_2$	463-40-1	2.219	0.043	1.711
Serum	RA-Cold vs. NC	Phospholipids	PC(22:4(7Z,10Z,13Z,16Z)/0:0)	$C_{30}H_{54}NO_7P$		1.506	0.001	2.38
Serum	RA-Cold vs. NC	Phospholipids	PC 32:1	$C_{40}H_{78}NO_8P$		1.961	0.023	1.861
Serum	RA-Cold vs. NC	Amino acids	D-Phenylalanine	$C_9H_{11}NO_2$	673-06-3	1.445	0.001	2.37
Serum	RA-Cold vs. NC	Indoles	Indoline	$C_8H_9N$	496-15-1	1.382	0.031	1.778
Serum	RA-Cold vs. NC	Others	Castasterone	$C_{28}H_{48}O_5$	80736-41-0	1.989	0.004	2.288
Synovial fluid	RA-Hot vs. NC	Steroids	Beclomethasone	$C_{22}H_{29}ClO_5$	4419-39-0	0.29	0.004	1.099
Synovial fluid	RA-Hot vs. NC	Ceramides	Cer 42:3	$C_{42}H_{79}NO_3$		0.365	0.007	1.034
Synovial fluid	RA-Hot vs. NC	Indoles	Stovaine	$C_{14}H_{21}NO_2$	644-26-8	0.414	0.003	1.132
Synovial fluid	RA-Hot vs. NC	Others	Chalcomoracin	$C_{39}H_{36}O_9$	76472-89-4	0.126	0.006	1.032
Synovial fluid	RA-Hot vs. NC	Steroids	5 $\alpha$ -Androstane-11 $\beta$ ,17 $\beta$ -diol	$C_{19}H_{32}O_2$		0.079	0.007	1.034
Synovial fluid	RA-Hot vs. NC	Sphingolipids	SM d28:3	$C_{33}H_{63}N_2O_6P$		0.393	0.004	1.056
Synovial fluid	RA-Hot vs. NC	Steroids	Progesterone			0.388	0.005	1.067
Synovial fluid	RA-Hot vs. NC	Phospholipids	PC(16:0/9:0(CHO))	$C_{33}H_{64}NO_9P$		0.388	0.003	1.105
Synovial fluid	RA-Hot vs. NC	Others	1-Hexadecylamine	$C_{16}H_{35}N$	143-27-1	2.409	0	1.253
Synovial fluid	RA-Hot vs. NC	Phospholipids	PC(P-19:1(12Z)/0:0)	$C_{27}H_{54}NO_6P$		2.916	0.007	1.067
Synovial fluid	RA-Hot vs. NC	Phospholipids	PS(P-16:0/13:0)	$C_{35}H_{68}NO_9P$		0.439	0.004	1.062
Synovial fluid	RA-Hot vs. NC	Ceramides	CerP 29:1	$C_{29}H_{58}NO_6P$		2.835	0.002	1.155
Synovial fluid	RA-Hot vs. NC	Ceramides	Cer-NDS d32:0	$C_{32}H_{65}NO_3$		0.047	0.011	1.136
Synovial fluid	RA-Hot vs. NC	Phospholipids	PA(21:0/20:1(11Z))	$C_{44}H_{85}O_8P$		0.444	0.006	1.043
Serum	RA-Hot vs. NC	Phospholipids	PC(P-16:0/22:6(4Z,7Z,10Z,13Z,16	$C_{46}H_{80}NO_7P$		0.512	0.002	1.8
Serum	RA-Hot vs. NC	Ceramides	PE-Cer(d15:1(4E)/22:0(2OH))	$C_{39}H_{79}N_2O_7P$		0.419	0.035	1.316

Serum	RA-Hot vs. NC	Sphingolipids	C18-OH Sulfatide	$C_{42}H_{81}NO_{12}S$	0.288	0.004	1.663
Serum	RA-Hot vs. NC	Sphingolipids	SM d42:2	$C_{47}H_{93}N_2O_6P$	0.272	0.002	1.795
Serum	RA-Hot vs. NC	Terpenoids	Dihydrogeranylgeranyl diphosphate	$C_{20}H_{38}O_7P_2$	0.302	0.046	1.296
Serum	RA-Hot vs. NC	Phospholipids	PI 33:2	$C_{42}H_{77}O_{13}P$	1.23	0.03	1.344

---