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1 Tables

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- 1.2 Biomarkers differences for each specific medicine
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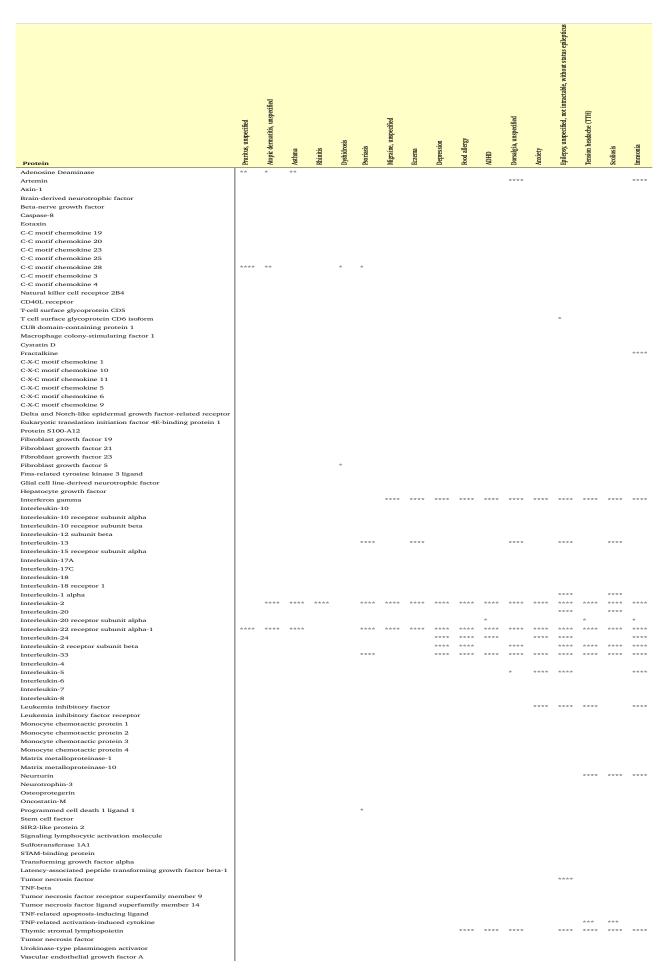


Table 1: Significant biomarkers for diseases and women, addjusted for Bonferroni

Protein Adoposino Doomingo	No correction	Benjamini **	Bonferroni **	Avg Disease	Avg Healthy	Imag
Adenosine Deaminase Artemin		**	**	4.88 0.06	4.72 0.09	NA NA
Axin-1				1.16	1.09	NA NA
Brain-derived neurotrophic factor				4.52	3.88	NA
Beta-nerve growth factor				1.89	1.91	NA
Caspase-8				1.45	1.4	NA
Eotaxin				7.78	7.77	NA
C-C motif chemokine 19				9.36	9.41	NA
C-C motif chemokine 20				6.08	6.05	NA
C-C motif chemokine 23				9.41	9.35	NA
C-C motif chemokine 25				6.01	6.05	NA
C-C motif chemokine 28	she she she	ster ster ster	***	1	1.33	NA
C-C motif chemokine 3				2.2	2.16	NA
C-C motif chemokine 4				6.5	6.42	NA
Natural killer cell receptor 2B4				6.33	6.31	NA
CD40L receptor				9.24	9.18	NA
T-cell surface glycoprotein CD5				4	4	NA
T cell surface glycoprotein CD6 isoform				3.65	3.58	NA
CUB domain-containing protein 1				2.44	2.38	NA
Macrophage colony-stimulating factor 1				7.88	7.9	NA
Cystatin D				6.82	6.76	NA
Fractalkine				6.52	6.5	NA
C-X-C motif chemokine 1	w			8.78	8.89	NA
C-X-C motif chemokine 10				9.56	9.58	NA
C-X-C motif chemokine 11				7.15	7.24	NA
C-X-C motif chemokine 5	str str			12.35	12.54	NA
C-X-C motif chemokine 6				9.05	9	NA
C-X-C motif chemokine 9				7.27	7.27	NA
Delta and Notch-like epidermal growth factor-related receptor				7.28	7.27	NA
Eukaryotic translation initiation factor 4E-binding protein 1				5.67	5.55	NA
Protein S100-A12				5.2	5.05	NA
Fibroblast growth factor 19				7.96	7.81	NA
Fibroblast growth factor 21				3.09	3.05	NA
Fibroblast growth factor 23				2.59	2.68	NA
Fibroblast growth factor 5				1.42	1.47	NA
Fms-related tyrosine kinase 3 ligand				8.79	8.84	NA
Glial cell line-derived neurotrophic factor				2.12	2.1	NA
Hepatocyte growth factor				7.86	7.9	NA
Interferon gamma				1	1.01	NA
Interleukin-10				4.18	4.07	NA
Interleukin-10 receptor subunit alpha				1.31	1.45	NA
Interleukin-10 receptor subunit beta				7.52	7.46	NA
Interleukin-12 subunit beta				4.81	4.88	NA
Interleukin-13				1.59	1.62	NA
Interleukin-15 receptor subunit alpha				1.25	1.21	NA
Interleukin-17A				0.85	0.83	NA
Interleukin-17C				1.7	1.64	NA
Interleukin-18				7.04	6.98	NA
Interleukin-18 receptor 1				7.54	7.5	NA
Interleukin-1 alpha				1.82	1.82	NA
Interleukin-2				1.22	1.23	NA
Interleukin-20				0.87	0.87	NA
Interleukin-20 receptor subunit alpha				1	0.99	NA
Interleukin-22 receptor subunit alpha-1	ste ste ste ste	ste ste ste	she she she she	2.26	2.26	NA
Interleukin-24				1.38	1.38	NA
Interleukin-2 receptor subunit beta				0.93	0.9	NA
Interleukin-33				1.46	1.49	NA
Interleukin-4				1.42	1.25	NA
Interleukin-5				2.11	2.23	NA
Interleukin-6				2.92	2.81	NA
Interleukin-0 Interleukin-7				5.19	5.25	NA NA
Interleukin-7 Interleukin-8				7.56	5.25 7.51	NA NA
interieuкin-8 Leukemia inhibitory factor				0.88	0.95	NA NA
Leukemia inhibitory factor Leukemia inhibitory factor receptor				3.35	3.37	NA NA
Monocyte chemotactic protein 1	str			9.88	9.77	NA
Monocyte chemotactic protein 1 Monocyte chemotactic protein 2				10.06	9.77	NA
Monocyte chemotactic protein 2 Monocyte chemotactic protein 3				2.31	2.24	NA
					2.24 3.41	
Monocyte chemotactic protein 4				3.5		NA NA
Matrix metalloproteinase-1				6.99	6.98	NA
Matrix metalloproteinase-10				8.95	8.94	NA
Neurturin				1.18	1.21	NA
Neurotrophin-3				2.11	2.11	NA
Osteoprotegerin	w			9.71	9.71	NA
Oncostatin-M	*			4.65	4.8	NA
Programmed cell death 1 ligand 1				4.96	4.87	NA
Stem cell factor				9.21	9.15	NA
SIR2-like protein 2				3	2.89	NA
Signaling lymphocytic activation molecule				3.09	3.09	NA
Sulfotransferase 1A1				2.17	1.98	NA
STAM-binding protein	1.			2.65	2.57	NA
Transforming growth factor alpha	*			3.75	3.9	NA
atency-associated peptide transforming growth factor beta-1				8.02	8.01	NA
Γumor necrosis factor				0.9	0.89	NA
ΓNF-beta				3.98	4.02	NA
Tumor necrosis factor receptor superfamily member 9	ste ste	w		6.87	6.72	NA
Tumor necrosis factor ligand superfamily member 14				4.68	4.71	NA
TNF-related apoptosis-inducing ligand	str			8.26	8.17	NA
TNF-related activation-induced cytokine				5.62	5.52	NA
Γhymic stromal lymphopoietin				1.11	1.1	NA
	1			8.94	8.88	NA
Γumor necrosis factor				0.94	0.00	
Tumor necrosis factor Urokinase-type plasminogen activator				9.94	9.88	NA

Table 2: Women table for biomarkers significance, disease Pruritus, unspecified

Protein	No correction	Benjamini	Bonferroni	Avg Disease	Avg Healthy	Imag
Adenosine Deaminase	物物物	ste ste	w	4.92	4.72	NA NA
Artemin Axin-1				0.08 1.07	0.09 1.09	NA NA
Brain-derived neurotrophic factor				3.91	3.88	NA
Beta-nerve growth factor				1.95	1.91	NA
Caspase-8				1.45	1.4	NA
Eotaxin				7.84	7.77	NA
C-C motif chemokine 19				9.26	9.41	NA
C-C motif chemokine 20				6	6.05	NA
C-C motif chemokine 23				9.37	9.35	NA
C-C motif chemokine 25				6.07	6.05	NA
C-C motif chemokine 28	***	w w	w w	1.02	1.33	NA
C-C motif chemokine 3 C-C motif chemokine 4				2.24	2.16	NA
C-C motif chemokine 4 Natural killer cell receptor 2B4				6.56 6.33	6.42 6.31	NA NA
CD40L receptor				9.22	9.18	NA
T-cell surface glycoprotein CD5				4.02	4	NA
T cell surface glycoprotein CD6 isoform				3.65	3.58	NA
CUB domain-containing protein 1				2.47	2.38	NA
Macrophage colony-stimulating factor 1				7.91	7.9	NA
Cystatin D				6.79	6.76	NA
Fractalkine				6.55	6.5	NA
C-X-C motif chemokine 1				8.83	8.89	NA
C-X-C motif chemokine 10				9.63	9.58	NA
C-X-C motif chemokine 11				7.31	7.24	NA
C-X-C motif chemokine 5				12.52	12.54	NA
C-X-C motif chemokine 6				9.11	9	NA
C-X-C motif chemokine 9				7.34	7.27	NA
Delta and Notch-like epidermal growth factor-related receptor				7.29	7.27	NA
Eukaryotic translation initiation factor 4E-binding protein 1	l .			5.53	5.55	NA
Protein S100-A12	*			5.29	5.05	NA
Fibroblast growth factor 19				7.87	7.81	NA
Fibroblast growth factor 21				3.02	3.05	NA
Fibroblast growth factor 23				2.64	2.68	NA
Fibroblast growth factor 5				1.42	1.47	NA
Fms-related tyrosine kinase 3 ligand Glial cell line-derived neurotrophic factor				8.86 2.11	8.84 2.1	NA NA
Hepatocyte growth factor				7.89	7.9	NA
Interferon gamma				1	1.01	NA
Interleukin-10				4.15	4.07	NA
nterleukin-10 receptor subunit alpha				1.36	1.45	NA
nterleukin-10 receptor subunit beta	w			7.54	7.46	NA
Interleukin-12 subunit beta				4.86	4.88	NA
Interleukin-13				1.59	1.62	NA
Interleukin-15 receptor subunit alpha				1.25	1.21	NA
Interleukin-17A				0.89	0.83	NA
Interleukin-17C				1.65	1.64	NA
Interleukin-18				7.06	6.98	NA
Interleukin-18 receptor 1				7.59	7.5	NA
Interleukin-1 alpha				1.76	1.82	NA
Interleukin-2	the the the the	***	***	1.22	1.23	NA
Interleukin-20				0.89	0.87	NA
Interleukin-20 receptor subunit alpha				0.97	0.99	NA
Interleukin-22 receptor subunit alpha-1	she she she	***	***	2.26	2.26	NA
Interleukin-24				1.36	1.38	NA
nterleukin-2 receptor subunit beta				0.87	0.9	NA
Interleukin-33				1.44	1.49	NA
Interleukin-4				1.33	1.25	NA
Interleukin-5				2.25	2.23	NA
interleukin-6 Interleukin-7				2.94	2.81 5.25	NA NA
Interleukin-/ Interleukin-8				5.15 7.51	5.25 7.51	NA NA
Interieukin-8 Leukemia inhibitory factor	skr			0.84	0.95	NA NA
Leukemia inhibitory factor Leukemia inhibitory factor receptor				3.39	3.37	NA
Monocyte chemotactic protein 1	ste ste	*		9.96	9.77	NA
Monocyte chemotactic protein 2				10.11	9.97	NA
Monocyte chemotactic protein 3				2.27	2.24	NA
Monocyte chemotactic protein 4	*			3.59	3.41	NA
Matrix metalloproteinase-1				6.8	6.98	NA
Matrix metalloproteinase-10				9	8.94	NA
Neurturin				1.24	1.21	NA
Neurotrophin-3				2.17	2.11	NA
Osteoprotegerin				9.74	9.71	NA
Oncostatin-M				4.72	4.8	NA
Programmed cell death 1 ligand 1				4.91	4.87	NA
Stem cell factor				9.19	9.15	NA
SIR2-like protein 2				2.85	2.89	NA
Signaling lymphocytic activation molecule				3.07	3.09	NA
Sulfotransferase 1A1				2.01	1.98	NA
STAM-binding protein				2.61	2.57	NA
Fransforming growth factor alpha				3.85	3.9	NA
Latency-associated peptide transforming growth factor beta-1				8.03	8.01	NA
				0.9	0.89	NA
	1			4.01	4.02	NA
ΓNF-beta				6.87	6.72	NA
INF-beta Fumor necrosis factor receptor superfamily member 9	*			4.60		NA
Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14	ste			4.68	4.71	
I'NF-beta Fumor necrosis factor receptor superfamily member 9 Fumor necrosis factor ligand superfamily member 14 I'NF-related apoptosis-inducing ligand	*			8.21	8.17	NA
TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine	*			8.21 5.65	8.17 5.52	NA NA
INF-beta Tumor necrosis factor receptor superfamily member 9 Fumor necrosis factor ligand superfamily member 14 INF-related apoptosis-inducing ligand INF-related activation-induced cytokine Thymic stromal lymphopoietin	w			8.21 5.65 1.09	8.17 5.52 1.1	NA NA NA
TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine	w			8.21 5.65	8.17 5.52	NA NA

 Table 3: Women table for biomarkers significance, disease Atopic dermatitis, unspecified

Protein	No correction	Benjamini	Bonferroni	Avg Disease	Avg Healthy	Image
Adenosine Deaminase	* * * *	ste ste	ste ste	4.93	4.72	NA
Artemin				0.18	0.09	NA
Axin-1				1.11 3.96	1.09 3.88	NA NA
Brain-derived neurotrophic factor Beta-nerve growth factor				1.92	1.91	NA
Caspase-8				1.38	1.4	NA
Eotaxin				7.79	7.77	NA
C-C motif chemokine 19				9.27	9.41	NA
C-C motif chemokine 20				6.15	6.05	NA
C-C motif chemokine 23				9.37	9.35	NA
C-C motif chemokine 25				6.06	6.05	NA
C-C motif chemokine 28	w w			1.13	1.33	NA
C-C motif chemokine 3				2.32	2.16	NA
C-C motif chemokine 4	w			6.58	6.42	NA
Natural killer cell receptor 2B4				6.35	6.31	NA
CD40L receptor				9.2	9.18	NA
T-cell surface glycoprotein CD5				4.01	4	NA
T cell surface glycoprotein CD6 isoform				3.66	3.58	NA
CUB domain-containing protein 1				2.43	2.38	NA
Macrophage colony-stimulating factor 1				7.92	7.9	NA
Cystatin D				6.82	6.76	NA
Fractalkine				6.57	6.5	NA
C-X-C motif chemokine 1				8.81	8.89	NA
C-X-C motif chemokine 10				9.64	9.58	NA
C-X-C motif chemokine 11 C-X-C motif chemokine 5				7.35	7.24	NA
				12.41	12.54	NA
C-X-C motif chemokine 6				9.03	9	NA NA
C-X-C motif chemokine 9 Delta and Notch like epidermal growth factor related recentor				7.34	7.27	
Delta and Notch-like epidermal growth factor-related receptor Eukaryotic translation initiation factor 4E-binding protein 1				7.28 5.39	7.27 5.55	NA NA
Protein S100-A12				5.39	5.55	NA NA
Fibroblast growth factor 19				7.86	7.81	NA NA
Fibroblast growth factor 21				3.03	3.05	NA NA
Fibroblast growth factor 23				2.56	2.68	NA
Fibroblast growth factor 5				1.4	1.47	NA
Fms-related tyrosine kinase 3 ligand				8.81	8.84	NA
Glial cell line-derived neurotrophic factor				2.1	2.1	NA
Hepatocyte growth factor				7.85	7.9	NA
Interferon gamma				1	1.01	NA
Interleukin-10				4.25	4.07	NA
Interleukin-10 receptor subunit alpha				1.37	1.45	NA
Interleukin-10 receptor subunit beta				7.5	7.46	NA
Interleukin-12 subunit beta				4.82	4.88	NA
Interleukin-13				1.69	1.62	NA
Interleukin-15 receptor subunit alpha				1.24	1.21	NA
Interleukin-17A				0.86	0.83	NA
Interleukin-17C				1.66	1.64	NA
Interleukin-18	*			7.13	6.98	NA
Interleukin-18 receptor 1				7.58	7.5	NA
Interleukin-1 alpha				1.79	1.82	NA
Interleukin-2	***	***	***	1.22	1.23	NA
Interleukin-20				0.84	0.87	NA
Interleukin-20 receptor subunit alpha				0.94	0.99	NA
Interleukin-22 receptor subunit alpha-1	***	***	***	2.26	2.26	NA
Interleukin-24				1.42	1.38	NA
Interleukin-2 receptor subunit beta				0.91	0.9	NA
Interleukin-33				1.47	1.49	NA
Interleukin-4				1.44	1.25	NA
Interleukin-5				2.27	2.23	NA
Interleukin-6				2.97	2.81	NA
Interleukin-7				5.25	5.25	NA
Interleukin-8				7.51	7.51	NA NA
Leukemia inhibitory factor				0.87	0.95 3.37	NA NA
Leukemia inhibitory factor receptor Monocyte chemotactic protein 1	w			3.33 9.94	9.77	NA NA
Monocyte chemotactic protein 1 Monocyte chemotactic protein 2	I			10.09	9.77	NA NA
Monocyte chemotactic protein 2 Monocyte chemotactic protein 3				2.24	2.24	NA NA
Monocyte chemotactic protein 4				3.44	3.41	NA NA
Matrix metalloproteinase-1				7.09	6.98	NA
Matrix metalloproteinase-10				8.91	8.94	NA
Neurturin				1.23	1.21	NA
Neurotrophin-3				2.11	2.11	NA
Osteoprotegerin				9.69	9.71	NA
Oncostatin-M				4.63	4.8	NA
Programmed cell death 1 ligand 1				4.91	4.87	NA
Stem cell factor				9.17	9.15	NA
SIR2-like protein 2				2.88	2.89	NA
Signaling lymphocytic activation molecule				3.05	3.09	NA
Sulfotransferase 1A1				2.09	1.98	NA
STAM-binding protein				2.63	2.57	NA
Transforming growth factor alpha				3.78	3.9	NA
Latency-associated peptide transforming growth factor beta-1				8	8.01	NA
Tumor necrosis factor				0.93	0.89	NA
TNF-beta				3.96	4.02	NA
				6.8	6.72	NA
Tumor necrosis factor receptor superfamily member 9				4.74	4.71	NA
Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand				8.26	8.17	NA
Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine				5.65	5.52	NA
Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine Thymic stromal lymphopoietin				5.65 1.09	5.52 1.1	NA NA
Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine Thymic stromal lymphopoietin Tumor necrosis factor Urokinase-type plasminogen activator				5.65	5.52	NA

Table 4: Women table for biomarkers significance, disease Asthma

Protein Adamasina Danminasa	No correction	Benjamini	Bonferroni	Avg Disease	Avg Healthy	Imag
Adenosine Deaminase Artemin				4.82 0.1	4.72 0.09	NA NA
Artemin Axin-1				0.1 1.09	1.09	NA NA
Brain-derived neurotrophic factor	w			5.04	3.88	NA
Beta-nerve growth factor				1.97	1.91	NA
Caspase-8				1.41	1.4	NA
Eotaxin				7.75	7.77	NA
C-C motif chemokine 19				9.39	9.41	NA
C-C motif chemokine 20				6.16	6.05	NA
C-C motif chemokine 23	*			9.48	9.35	NA
C-C motif chemokine 25				6.01	6.05	NA
C-C motif chemokine 28	w w			1.11	1.33	NA
C-C motif chemokine 3				2.21	2.16	NA
C-C motif chemokine 4				6.49	6.42	NA
Natural killer cell receptor 2B4				6.35	6.31	NA
CD40L receptor				9.2	9.18	NA
T-cell surface glycoprotein CD5				4	4	NA
T cell surface glycoprotein CD6 isoform				3.64	3.58	NA
CUB domain-containing protein 1				2.47	2.38	NA
Macrophage colony-stimulating factor 1				7.91	7.9	NA
Cystatin D				6.73	6.76	NA
Fractalkine				6.57	6.5	NA
C-X-C motif chemokine 1				8.81	8.89	NA
C-X-C motif chemokine 10				9.55	9.58	NA
C-X-C motif chemokine 11				7.18	7.24	NA
C-X-C motif chemokine 5				12.5	12.54	NA
C-X-C motif chemokine 6				9.1	9	NA
C-X-C motif chemokine 9				7.31	7.27	NA
Delta and Notch-like epidermal growth factor-related receptor				7.29	7.27	NA
Eukaryotic translation initiation factor 4E-binding protein 1				5.37	5.55	NA
Protein S100-A12				5.18	5.05	NA
Fibroblast growth factor 19				7.92	7.81	NA
Fibroblast growth factor 21				3.23	3.05	NA
Fibroblast growth factor 23				2.59	2.68	NA
Fibroblast growth factor 5				1.43	1.47	NA
Fms-related tyrosine kinase 3 ligand				8.86	8.84	NA
Glial cell line-derived neurotrophic factor				2.12	2.1	NA
Hepatocyte growth factor				7.92	7.9	NA
Interferon gamma				1.01	1.01	NA
Interleukin-10				4.29	4.07	NA
Interleukin-10 receptor subunit alpha				1.4	1.45	NA
Interleukin-10 receptor subunit beta				7.52	7.46	NA
Interleukin-12 subunit beta				4.81	4.88	NA
Interleukin-13				1.7	1.62	NA
Interleukin-15 receptor subunit alpha				1.23	1.21	NA
Interleukin-17A				0.87	0.83	NA
Interleukin-17C				1.68	1.64	NA
Interleukin-18				7.1	6.98	NA
Interleukin-18 receptor 1				7.54	7.5	NA
Interleukin-1 alpha				1.84	1.82	NA
Interleukin-2	she she she she	***	***	1.22	1.23	NA
Interleukin-20				0.86	0.87	NA
Interleukin-20 receptor subunit alpha				1	0.99	NA
Interleukin-22 receptor subunit alpha-1				2.31	2.26	NA
Interleukin-24				1.4	1.38	NA
Interleukin-2 receptor subunit beta	*			0.86	0.9	NA
Interleukin-33				1.43	1.49	NA
Interleukin-4				1.32	1.25	NA
Interleukin-5				2.39	2.23	NA
Interleukin-6				2.99	2.81	
Interleukin-6 Interleukin-7				5.24	5.25	NA NA
Interleukin-7 Interleukin-8				5.24 7.62	7.51	NA NA
interieuкin-8 Leukemia inhibitory factor				0.88	0.95	NA NA
Leukemia inhibitory factor Leukemia inhibitory factor receptor				0.88 3.41	3.37	NA NA
Monocyte chemotactic protein 1				9.85	9.77	
Monocyte chemotactic protein 1 Monocyte chemotactic protein 2				9.85 9.96	9.77 9.97	NA NA
*						
Monocyte chemotactic protein 3				2.32	2.24	NA NA
Monocyte chemotactic protein 4 Matrix metalloproteinase 1				3.45	3.41	NA NA
Matrix metalloproteinase-1				6.86	6.98	NA
Matrix metalloproteinase-10				9.04 1.27	8.94 1.21	NA NA
Neurturin						NA
Neurotrophin-3				2.18	2.11	NA
Osteoprotegerin				9.74	9.71	NA
Oncostatin-M				4.65	4.8	NA
Programmed cell death 1 ligand 1				4.9	4.87	NA
Stem cell factor				9.19	9.15	NA
SIR2-like protein 2				2.89	2.89	NA
Signaling lymphocytic activation molecule				3.04	3.09	NA
Sulfotransferase 1A1				2.03	1.98	NA
STAM-binding protein				2.6	2.57	NA
Transforming growth factor alpha				3.81	3.9	NA
Latency-associated peptide transforming growth factor beta-1				8.03	8.01	NA
Tumor necrosis factor				1.03	0.89	NA
TNF-beta				3.9	4.02	NA
Tumor necrosis factor receptor superfamily member 9				6.73	6.72	NA
Tumor necrosis factor ligand superfamily member 14				4.75	4.71	NA
TNF-related apoptosis-inducing ligand				8.23	8.17	NA
TNF-related activation-induced cytokine				5.51	5.52	NA
	i .				1.1	NA
				1.08	1.1	
Thymic stromal lymphopoietin				8.88	8.88	NA
Thymic stromal lymphopoietin Tumor necrosis factor Urokinase-type plasminogen activator						

 Table 5: Women table for biomarkers significance, disease Rhinitis

Protein Adenosine Deaminase	No correction	Benjamini	Bonferroni	Avg Disease 4.84	Avg Healthy 4.72	Image NA
Adenosine Deaminase Artemin				4.84 0.1	4.72 0.09	NA NA
Axin-1				1.01	1.09	NA
Brain-derived neurotrophic factor				3.92	3.88	NA
Beta-nerve growth factor				2	1.91	NA
Caspase-8				1.39	1.4	NA
Eotaxin				7.71	7.77	NA
C-C motif chemokine 19				9.27	9.41	NA
C-C motif chemokine 20	w			5.83	6.05	NA
C-C motif chemokine 23				9.34	9.35	NA
C-C motif chemokine 25				5.93	6.05	NA
C-C motif chemokine 28	ste ste ste	ste ste	ŵ	1.03	1.33	NA
C-C motif chemokine 3				2.07	2.16	NA
C-C motif chemokine 4				6.29	6.42	NA
Natural killer cell receptor 2B4				6.24	6.31	NA
CD40L receptor	*			9.1	9.18	NA
T-cell surface glycoprotein CD5	**			3.88	4	NA
T cell surface glycoprotein CD6 isoform	w/r			3.44	3.58	NA
CUB domain-containing protein 1				2.39	2.38	NA
Macrophage colony-stimulating factor 1				7.89	7.9	NA
Cystatin D				6.72	6.76	NA
Fractalkine				6.49	6.5	NA
C-X-C motif chemokine 1	str str			8.71	8.89	NA
C-X-C motif chemokine 10				9.7	9.58	NA
C-X-C motif chemokine 11				7.05	7.24	NA
C-X-C motif chemokine 5	*			12.33	12.54	NA
C-X-C motif chemokine 6	1			8.96	9	NA
C-X-C motif chemokine 9	1			7.1	7.27	NA
Delta and Notch-like epidermal growth factor-related receptor				7.26	7.27	NA
Eukaryotic translation initiation factor 4E-binding protein 1	1			5.36	5.55	NA
Protein S100-A12	1			5.15	5.05	NA
Fibroblast growth factor 19	1			7.84	7.81	NA
Fibroblast growth factor 21	1			2.97	3.05	NA
Fibroblast growth factor 23	1			2.57	2.68	NA
Fibroblast growth factor 5	sk sk sk	w w	w	1.31	1.47	NA
Fms-related tyrosine kinase 3 ligand				8.8	8.84	NA
Glial cell line-derived neurotrophic factor				2.1	2.1	NA
Hepatocyte growth factor				7.83	7.9	NA
Interferon gamma				1.01	1.01	NA
Interleukin-10				4.18	4.07	NA
Interleukin-10 receptor subunit alpha				1.32	1.45	NA
Interleukin-10 receptor subunit beta				7.47	7.46	NA
Interleukin-12 subunit beta				4.74	4.88	NA
Interleukin-13	ĺ			1.56	1.62	NA
Interleukin-15 receptor subunit alpha				1.2	1.21	NA
Interleukin-17A				0.79	0.83	NA
Interleukin-17C				1.66	1.64	NA
Interleukin-18				7.04	6.98	NA
Interleukin-18 receptor 1				7.53	7.5	NA
Interleukin-1 alpha				1.79	1.82	NA
Interleukin-2				1.22	1.23	NA
Interleukin-20				0.82	0.87	NA
Interleukin-20 receptor subunit alpha				0.97	0.99	NA
Interleukin-22 receptor subunit alpha-1				2.31	2.26	NA
Interleukin-24				1.41	1.38	NA
Interleukin-24 Interleukin-2 receptor subunit beta				0.89	0.9	NA
Interleukin-33				1.43	1.49	NA
Interleukin-4 Interleukin-5				1.25	1.25	NA NA
	1			2.2	2.23	NA
Interleukin-6	1			2.91	2.81	NA
Interleukin-7	1			5.22	5.25	NA
Interleukin-8	1			7.41	7.51	NA
Leukemia inhibitory factor				0.85	0.95	NA
Leukemia inhibitory factor receptor				3.37	3.37	NA
Monocyte chemotactic protein 1				9.79	9.77	NA
Monocyte chemotactic protein 2				10.17	9.97	NA
Monocyte chemotactic protein 3	1			2.27	2.24	NA
Monocyte chemotactic protein 4	1			3.41	3.41	NA
Matrix metalloproteinase-1	1			6.77	6.98	NA
Matrix metalloproteinase-10	1			8.75	8.94	NA
Neurturin	1			1.15	1.21	NA
Neurotrophin-3	1			2.12	2.11	NA
Osteoprotegerin	1			9.68	9.71	NA
Oncostatin-M	1			4.65	4.8	NA
Programmed cell death 1 ligand 1	1			4.87	4.87	NA
Stem cell factor	1			9.12	9.15	NA
SIR2-like protein 2	1			2.8	2.89	NA
Signaling lymphocytic activation molecule	1			3.05	3.09	NA
	1			1.78	1.98	NA
Sulfotransferase 1A1				2.49	2.57	NA
Sulfotransferase 1A1				3.76	3.9	NA
Sulfotransferase 1A1 STAM-binding protein				3.70		
Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha						NA
Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1				7.94	8.01	NA NA
Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor	*			7.94 1.04	8.01 0.89	NA
Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta	*			7.94 1.04 3.87	8.01 0.89 4.02	NA NA
Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9	W-			7.94 1.04 3.87 6.68	8.01 0.89 4.02 6.72	NA NA NA
Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14	*			7.94 1.04 3.87 6.68 4.59	8.01 0.89 4.02 6.72 4.71	NA NA NA
Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand	*			7.94 1.04 3.87 6.68 4.59 8.21	8.01 0.89 4.02 6.72 4.71 8.17	NA NA NA NA
Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine	*			7.94 1.04 3.87 6.68 4.59 8.21 5.48	8.01 0.89 4.02 6.72 4.71 8.17 5.52	NA NA NA NA NA
Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine Thymic stromal lymphopoietin	ŵ			7.94 1.04 3.87 6.68 4.59 8.21 5.48	8.01 0.89 4.02 6.72 4.71 8.17 5.52 1.1	NA NA NA NA NA NA
Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine	*			7.94 1.04 3.87 6.68 4.59 8.21 5.48	8.01 0.89 4.02 6.72 4.71 8.17 5.52	NA NA NA NA NA

 Table 6: Women table for biomarkers significance, disease Dyshidrosis

Protein Adenosine Deaminase	No correction	Benjamini *	Bonferroni	Avg Disease	Avg Healthy	Imag NA
Adenosine Deaminase Artemin	""			4.98 0.14	4.72 0.09	NA NA
Axin-1				1.12	1.09	NA NA
Brain-derived neurotrophic factor				5.27	3.88	NA
Beta-nerve growth factor				1.97	1.91	NA
Caspase-8				1.44	1.4	NA
Eotaxin				7.84	7.77	NA
C-C motif chemokine 19				9.46	9.41	NA
C-C motif chemokine 20				5.9	6.05	NA
C-C motif chemokine 23				9.31	9.35	NA
C-C motif chemokine 25				5.9	6.05	NA
C-C motif chemokine 28	ste ste ste	ste ste	w	0.95	1.33	NA
C-C motif chemokine 3				2.23	2.16	NA
C-C motif chemokine 4				6.5	6.42	NA
Natural killer cell receptor 2B4				6.33	6.31	NA
CD40L receptor				9.22	9.18	NA
T-cell surface glycoprotein CD5				4.06	4	NA
T cell surface glycoprotein CD6 isoform				3.6	3.58	NA
CUB domain-containing protein 1				2.44	2.38	NA
Macrophage colony-stimulating factor 1				7.93	7.9	NA
Cystatin D				6.69	6.76	NA
Fractalkine				6.58	6.5	NA
C-X-C motif chemokine 1				8.88	8.89	NA
C-X-C motif chemokine 10				9.61	9.58	NA
C-X-C motif chemokine 11				7.09	7.24	NA
C-X-C motif chemokine 5				12.3	12.54	NA
C-X-C motif chemokine 6	*			9.16	9	NA
C-X-C motif chemokine 9	1			7.04	7.27	NA
Delta and Notch-like epidermal growth factor-related receptor				7.34	7.27	NA NA
Eukaryotic translation initiation factor 4E-binding protein 1 Protein S100-A12				5.55 5.23	5.55 5.05	NA NA
					7.81	
Fibroblast growth factor 19				7.63		NA NA
Fibroblast growth factor 21 Fibroblast growth factor 23				3.47 2.48	3.05 2.68	NA NA
Fibroblast growth factor 5	ste ste			1.35	1.47	NA
Fms-related tyrosine kinase 3 ligand				8.91	8.84	NA
Glial cell line-derived neurotrophic factor				2.02	2.1	NA
Hepatocyte growth factor				8.02	7.9	NA
Interferon gamma				0.99	1.01	NA
Interleukin-10				4.48	4.07	NA
Interleukin-10 receptor subunit alpha				1.28	1.45	NA
Interleukin-10 receptor subunit beta	*			7.6	7.46	NA
Interleukin-12 subunit beta				4.89	4.88	NA
Interleukin-13	***	***	***	1.54	1.62	NA
Interleukin-15 receptor subunit alpha				1.19	1.21	NA
Interleukin-17A				0.76	0.83	NA
Interleukin-17C				1.65	1.64	NA
Interleukin-18				7.13	6.98	NA
Interleukin-18 receptor 1				7.6	7.5	NA
Interleukin-1 alpha				1.79	1.82	NA
Interleukin-2	ste ste ste	***	***	1.22	1.23	NA
Interleukin-20	w			0.81	0.87	NA
Interleukin-20 receptor subunit alpha				1.01	0.99	NA
Interleukin-22 receptor subunit alpha-1	* * * *	she she she she	she she she	2.26	2.26	NA
Interleukin-24				1.37	1.38	NA
Interleukin-2 receptor subunit beta				0.96	0.9	NA
Interleukin-33	* * * *	she she she she	she she she	1.43	1.49	NA
Interleukin-4				1.41	1.25	NA
Interleukin-5				2.14	2.23	NA
Interleukin-6				2.87	2.81	NA
Interleukin-7				5.4	5.25	NA
Interleukin-8				7.57	7.51	NA
Leukemia inhibitory factor	w w	W		0.81	0.95	NA
Leukemia inhibitory factor receptor				3.4	3.37	NA
Monocyte chemotactic protein 1	*			10.02	9.77	NA
Monocyte chemotactic protein 2	w			10.28	9.97	NA
Monocyte chemotactic protein 3	w			2.34 3.62	2.24 3.41	NA NA
Monocyte chemotactic protein 4						
Matrix metalloproteinase-1 Matrix metalloproteinase-10				6.71 8.86	6.98 8.94	NA NA
Matrix metalioproteinase-10 Neurturin	w			1.14	1.21	NA NA
Neurotrophin-3				2.17	2.11	NA
Neurotropnin-3 Osteoprotegerin				9.72	2.11 9.71	NA NA
Osteoprotegerin Oncostatin-M				4.78	4.8	NA
Programmed cell death 1 ligand 1	w w w	We We	*	5.09	4.87	NA
Stem cell factor				9.17	9.15	NA
SIR2-like protein 2				2.87	2.89	NA
Signaling lymphocytic activation molecule				3.1	3.09	NA
Sulfotransferase 1A1				1.74	1.98	NA
STAM-binding protein				2.6	2.57	NA
Transforming growth factor alpha				3.88	3.9	NA
Latency-associated peptide transforming growth factor beta-1				8.15	8.01	NA
Tumor necrosis factor				0.91	0.89	NA
TNF-beta				3.96	4.02	NA
Tumor necrosis factor receptor superfamily member 9				6.87	6.72	NA
Tumor necrosis factor ligand superfamily member 14				4.89	4.71	NA
TNF-related apoptosis-inducing ligand				8.27	8.17	NA
TNF-related apoptosis-inducing figure TNF-related activation-induced cytokine				5.78	5.52	NA
Thymic stromal lymphopoietin				1.09	1.1	NA
Tumor necrosis factor				8.94	8.88	NA
	1					
Urokinase-type plasminogen activator	1			10.01	9.88	NA

 Table 7: Women table for biomarkers significance, disease Psoriasis

denosine Deaminase temin	1			4.71	4.72	NA
				0.08	0.09	NA
xin-1				1.09	1.09	NA
ain-derived neurotrophic factor				4.63	3.88	NA
eta-nerve growth factor				1.84	1.91	NA
aspase-8				1.33	1.4	NA
otaxin				7.83	7.77	NA
C motif chemokine 19				9.66	9.41	NA
C motif chemokine 20				5.96	6.05	NA
C motif chemokine 23				9.35	9.35	NA
C motif chemokine 25				5.81	6.05	NA
C motif chemokine 28	w			1.12	1.33	NA
C motif chemokine 3				2.21	2.16	NA
C motif chemokine 4				6.49	6.42	NA
atural killer cell receptor 2B4				6.28	6.31	NA
D40L receptor				9.18	9.18	NA
cell surface glycoprotein CD5				4	4	NA
cell surface glycoprotein CD6 isoform				3.71	3.58	NA
UB domain-containing protein 1				2.4	2.38	NA
acrophage colony-stimulating factor 1				7.9	7.9	NA
ystatin D				6.72	6.76	NA
actalkine				6.64	6.5	NA
X-C motif chemokine 1				8.94	8.89	NA
X-C motif chemokine 10				9.75	9.58	NA
X-C motif chemokine 11				7.35	7.24	NA
X-C motif chemokine 5				12.62	12.54	NA
X-C motif chemokine 6				9.18	9	NA
X-C motif chemokine 9				7.25	7.27	NA
elta and Notch-like epidermal growth factor-related receptor				7.25	7.27	NA
skaryotic translation initiation factor 4E-binding protein 1				5.57	5.55	NA NA
rotein S100-A12				5.21	5.05	NA NA
broblast growth factor 19 broblast growth factor 21				7.61 3.26	7.81 3.05	NA NA
broblast growth factor 21 broblast growth factor 23				2.81	2.68	NA NA
broblast growth factor 5				1.37	1.47	NA
ns-related tyrosine kinase 3 ligand lial cell line-derived neurotrophic factor				8.82 1.97	8.84	NA
				7.95	2.1 7.9	NA NA
epatocyte growth factor terferon gamma	***	ste ste ste ste	***	0.99	1.01	NA
terleukin-10				4.11	4.07	NA
terleukin-10 terleukin-10 receptor subunit alpha				1.4	1.45	NA
terleukin-10 receptor subunit aipna terleukin-10 receptor subunit beta				7.47	7.46	NA
terleukin-10 receptor subunit beta				4.85	4.88	NA
terleukin-13				1.58	1.62	NA
terleukin-15 terleukin-15 receptor subunit alpha				1.17	1.21	NA
terleukin-17A				0.74	0.83	NA
terleukin-17A				1.54	1.64	NA
terleukin-18				6.97	6.98	NA
terleukin-18 receptor 1				7.55	7.5	NA
terleukin-1 alpha				2.13	1.82	NA
terleukin-2	she she she	de de de de	de de de de	1.22	1.23	NA
terleukin-20	w			0.81	0.87	NA
terleukin-20 terleukin-20 receptor subunit alpha	"			0.98	0.99	NA
terleukin-20 receptor subunit alpha-1	***	ste ste ste ste	ske ske ske ske	2.26	2.26	NA
terleukin-24				1.35	1.38	NA
terleukin-2 receptor subunit beta	w			0.86	0.9	NA
terleukin-33	"			1.43	1.49	NA
terleukin-4					1.25	
				1.64		NA
terleukin-5 terleukin-6				2.24 2.84	2.23 2.81	NA NA
terleukin-7 terleukin-8				5.08	5.25 7.51	NA NA
terieukin-8 eukemia inhibitory factor				7.56 0.88	0.95	NA NA
eukemia inhibitory factor eukemia inhibitory factor receptor				0.88 3.37	0.95 3.37	NA NA
				9.93	9.77	
onocyte chemotactic protein 1 onocyte chemotactic protein 2				9.93	9.77	NA NA
					9.97 2.24	
onocyte chemotactic protein 3				2.19 3.57	2.24 3.41	NA NA
onocyte chemotactic protein 4					3.41 6.98	NA NA
atrix metalloproteinase-1 atrix metalloproteinase-10				6.81 8.73	6.98 8.94	NA NA
atrix metalioproteinase-10 eurturin				1.26	1.21	NA NA
eurotrophin-3 steoprotegerin				2.02 9.84	2.11 9.71	NA NA
steoprotegerin ncostatin-M				9.84 4.85	9.71 4.8	NA NA
ncostatin-м rogrammed cell death 1 ligand 1				4.85	4.8 4.87	NA NA
em cell factor				9.2	9.15	NA
R2-like protein 2				2.94	2.89	NA NA
gnaling lymphocytic activation molecule	ste ste			2.88	3.09	NA
ulfotransferase 1A1				2.12	1.98	NA
				2.12	2.57	NA
TAM-binding protein ransforming growth factor alpha				2.56 3.83	2.5 <i>7</i> 3.9	NA NA
ransforming growth factor alpha atency-associated peptide transforming growth factor beta-1				7.92	8.01	NA NA
itency-associated peptide transforming growth factor beta-1				0.89	0.89	NA NA
NF-beta				3.91	4.02	NA
imor necrosis factor receptor superfamily member 9				6.74	6.72	NA
				4.73	4.71	NA
umor necrosis factor ligand superfamily member 14				8.21	8.17	NA
NF-related apoptosis-inducing ligand						
NF-related apoptosis-inducing ligand NF-related activation-induced cytokine				5.39	5.52	NA
NF-related apoptosis-inducing ligand NF-related activation-induced cytokine nymic stromal lymphopoietin				1.09	1.1	NA
NF-related apoptosis-inducing ligand NF-related activation-induced cytokine						

Table 8: Women table for biomarkers significance, disease Migraine, unspecified

Protein	No correction	Benjamini	Bonferroni	Avg Disease	Avg Healthy	Imag
Adenosine Deaminase Artemin				4.79 0.21	4.72 0.09	NA NA
Artemin Axin-1				1.06	1.09	NA NA
Brain-derived neurotrophic factor				3.97	3.88	NA
Beta-nerve growth factor				2.04	1.91	NA
Caspase-8				1.47	1.4	NA
Eotaxin				7.75	7.77	NA
C-C motif chemokine 19				9.21	9.41	NA
C-C motif chemokine 20				6.05	6.05	NA
C-C motif chemokine 23				9.46	9.35	NA
C-C motif chemokine 25 C-C motif chemokine 28	w			5.93 1.09	6.05 1.33	NA
C-C motif chemokine 28 C-C motif chemokine 3	_			2.23	2.16	NA NA
C-C motif chemokine 4				6.49	6.42	NA
Natural killer cell receptor 2B4				6.4	6.31	NA
CD40L receptor				9.23	9.18	NA
T-cell surface glycoprotein CD5				4.13	4	NA
T cell surface glycoprotein CD6 isoform				3.66	3.58	NA
CUB domain-containing protein 1				2.59	2.38	NA
Macrophage colony-stimulating factor 1				7.95	7.9	NA
Cystatin D				6.78	6.76	NA
Fractalkine				6.54	6.5	NA
C-X-C motif chemokine 1 C-X-C motif chemokine 10				8.87 9.54	8.89 9.58	NA NA
C-X-C motif chemokine 10 C-X-C motif chemokine 11				7.15	7.24	NA NA
C-X-C motif chemokine 5				12.68	12.54	NA
C-X-C motif chemokine 6				9.17	9	NA
C-X-C motif chemokine 9				7.19	7.27	NA
Delta and Notch-like epidermal growth factor-related receptor				7.3	7.27	NA
Eukaryotic translation initiation factor 4E-binding protein 1				5.47	5.55	NA
Protein S100-A12				5.2	5.05	NA
Fibroblast growth factor 19				7.88	7.81	NA
Fibroblast growth factor 21				3.78	3.05	NA
Fibroblast growth factor 23	w			2.67	2.68	NA
Fibroblast growth factor 5	w			1.34	1.47	NA
Fms-related tyrosine kinase 3 ligand Glial cell line-derived neurotrophic factor				9.01 2.11	8.84 2.1	NA NA
Hepatocyte growth factor				7.98	7.9	NA
Interferon gamma	***	***	***	0.99	1.01	NA
Interleukin-10				4.05	4.07	NA
Interleukin-10 receptor subunit alpha	**	w		1.1	1.45	NA
Interleukin-10 receptor subunit beta	*			7.61	7.46	NA
Interleukin-12 subunit beta				4.84	4.88	NA
Interleukin-13	de de de de	***	***	1.54	1.62	NA
Interleukin-15 receptor subunit alpha				1.3	1.21	NA
Interleukin-17A				0.9	0.83	NA
Interleukin-17C				1.71	1.64	NA
Interleukin-18				7.16	6.98	NA
Interleukin-18 receptor 1				7.72	7.5	NA
Interleukin-1 alpha Interleukin-2	***	***	strate strate	1.86 1.22	1.82 1.23	NA NA
Interleukin-20	w			0.8	0.87	NA
Interleukin-20 receptor subunit alpha				0.96	0.99	NA
Interleukin-22 receptor subunit alpha-1	***	strate strate	***	2.26	2.26	NA
Interleukin-24				1.37	1.38	NA
Interleukin-2 receptor subunit beta				0.88	0.9	NA
Interleukin-33				1.43	1.49	NA
Interleukin-4				1.21	1.25	NA
Interleukin-5				2.51	2.23	NA
Interleukin-6				2.99	2.81	NA
Interleukin-7				5.3	5.25	NA
Interleukin-8	w			7.63	7.51	NA
Leukemia inhibitory factor Leukemia inhibitory factor receptor				0.83 3.45	0.95 3.37	NA NA
Monocyte chemotactic protein 1				3.45 9.91	9.77	NA NA
Monocyte chemotactic protein 2				10.19	9.97	NA
Monocyte chemotactic protein 3				2.2	2.24	NA
Monocyte chemotactic protein 4				3.59	3.41	NA
Matrix metalloproteinase-1				6.86	6.98	NA
Matrix metalloproteinase-10				8.95	8.94	NA
Neurturin				1.38	1.21	NA
Neurotrophin-3				2.06	2.11	NA
Osteoprotegerin				9.76	9.71	NA
Oncostatin-M				4.84	4.8	NA
Programmed cell death 1 ligand 1				4.94	4.87	NA
Stem cell factor				9.08	9.15	NA
SIR2-like protein 2 Signaling lymphocytic activation molecule				2.96 3	2.89 3.09	NA NA
Signaling lymphocytic activation molecule Sulfotransferase 1A1				1.99	1.98	NA NA
SUITOTTAINSTETASE TAT STAM-binding protein				2.62	2.57	NA
STAMI-DINGING protein Transforming growth factor alpha				3.94	3.9	NA
Latency-associated peptide transforming growth factor beta-1				8.11	8.01	NA
Tumor necrosis factor	ww			0.84	0.89	NA
TNF-beta				4.08	4.02	NA
Tumor necrosis factor receptor superfamily member 9				6.69	6.72	NA
				4.72	4.71	NA
Tumor necrosis factor ligand superfamily member 14				0.46	8.17	NA
Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand				8.16	8.17	
				5.34	5.52	NA
TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine Thymic stromal lymphopoietin				5.34 1.14	5.52 1.1	NA NA
TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine				5.34	5.52	NA

Table 9: Women table for biomarkers significance, disease Eczema

Protein	No correction	Benjamini	Bonferroni	Avg Disease	Avg Healthy	Imag
Adenosine Deaminase Artemin				4.85	4.72	NA NA
Artemin Axin-1	l			0.05 1.17	0.09 1.09	NA NA
Brain-derived neurotrophic factor				4.6	3.88	NA
Beta-nerve growth factor				1.83	1.91	NA
Caspase-8				1.26	1.4	NA
Eotaxin				7.72	7.77	NA
C-C motif chemokine 19				9.51	9.41	NA
C-C motif chemokine 20				5.76	6.05	NA
C-C motif chemokine 23				9.22	9.35	NA
C-C motif chemokine 25 C-C motif chemokine 28				5.9 1.13	6.05 1.33	NA NA
C-C motif chemokine 3				2.18	2.16	NA
C-C motif chemokine 4				6.21	6.42	NA
Natural killer cell receptor 2B4				6.24	6.31	NA
CD40L receptor				9.25	9.18	NA
T-cell surface glycoprotein CD5				3.92	4	NA
T cell surface glycoprotein CD6 isoform				3.53	3.58	NA
CUB domain-containing protein 1				2.67	2.38	NA
Macrophage colony-stimulating factor 1 Cystatin D				8.01	7.9 6.76	NA NA
Fractalkine				6.61 6.49	6.76	NA NA
C-X-C motif chemokine 1				8.7	8.89	NA
C-X-C motif chemokine 10				9.74	9.58	NA
C-X-C motif chemokine 11				7.19	7.24	NA
C-X-C motif chemokine 5				12.57	12.54	NA
C-X-C motif chemokine 6				8.85	9	NA
C-X-C motif chemokine 9				7.26	7.27	NA
Delta and Notch-like epidermal growth factor-related receptor				7.16	7.27	NA
Eukaryotic translation initiation factor 4E-binding protein 1 Protein S100-A12	l			4.73 4.92	5.55 5.05	NA NA
Fibroblast growth factor 19	*			4.92 8.61	7.81	NA NA
Fibroblast growth factor 21	1			3.82	3.05	NA
Fibroblast growth factor 23	**	w		2.22	2.68	NA
Fibroblast growth factor 5				1.34	1.47	NA
Fms-related tyrosine kinase 3 ligand				9.08	8.84	NA
Glial cell line-derived neurotrophic factor	w w			1.75	2.1	NA
Hepatocyte growth factor				7.84	7.9	NA
Interferon gamma	the site site	ste ste ste ste	***	0.99	1.01	NA
Interleukin-10				3.97	4.07	NA
Interleukin-10 receptor subunit alpha Interleukin-10 receptor subunit beta				1.16 7.44	1.45 7.46	NA NA
Interleukin-10 receptor subunit beta				4.49	4.88	NA
Interleukin-13				1.62	1.62	NA
Interleukin-15 receptor subunit alpha				1.16	1.21	NA
Interleukin-17A				0.84	0.83	NA
Interleukin-17C				1.6	1.64	NA
Interleukin-18				6.87	6.98	NA
Interleukin-18 receptor 1				7.67	7.5	NA
Interleukin-1 alpha	ste ste ste ste	ste ste ste ste	ste ste ste ste	1.59	1.82	NA
Interleukin-2 Interleukin-20	**	***	***	1.22 0.78	1.23 0.87	NA NA
Interleukin-20 Interleukin-20 receptor subunit alpha				0.78	0.99	NA
Interleukin-22 receptor subunit alpha-1	she she she	ste ste ste ste	***	2.26	2.26	NA
Interleukin-24	***	***	***	1.34	1.38	NA
Interleukin-2 receptor subunit beta	***	ste ste ste ste	***	0.85	0.9	NA
Interleukin-33	***	***	***	1.43	1.49	NA
Interleukin-4				1.65	1.25	NA
Interleukin-5				2.24	2.23	NA
Interleukin-6				3.06	2.81	NA
Interleukin-7 Interleukin-8	l			5.11 7.57	5.25 7.51	NA NA
Leukemia inhibitory factor	1			0.92	0.95	NA NA
Leukemia inhibitory factor receptor	1			3.18	3.37	NA
Monocyte chemotactic protein 1	1			9.89	9.77	NA
Monocyte chemotactic protein 2	1			9.71	9.97	NA
Monocyte chemotactic protein 3	i			2.24	2.24	NA
Monocyte chemotactic protein 4	1			3.44	3.41	NA
Matrix metalloproteinase-1				7.14	6.98	NA
Matrix metalloproteinase-10	1			8.66	8.94 1.21	NA NA
Neurturin Neurotrophin-3	l			1.36 1.92	2.11	NA NA
Osteoprotegerin	1			9.8	9.71	NA
Oncostatin-M	1			4.8	4.8	NA
Programmed cell death 1 ligand 1	1			4.76	4.87	NA
Stem cell factor	1			8.98	9.15	NA
SIR2-like protein 2	1			2.73	2.89	NA
Signaling lymphocytic activation molecule				2.99	3.09	NA
Sulfotransferase 1A1				2.19	1.98	NA
STAM-binding protein	1			2.36	2.57	NA
T	i			3.81 7.8	3.9 8.01	NA NA
				7.8 0.84	8.01 0.89	NA NA
Latency-associated peptide transforming growth factor beta-1	w w	w		0.07	0.0>	NA NA
Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor	安安	w		4.04	4.02	
Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta	**	W		4.04 6.41	4.02 6.72	NA
Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14		w				
Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9		str.		6.41	6.72	NA
Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14		W.		6.41 4.84	6.72 4.71	NA NA
Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand		W.		6.41 4.84 7.89	6.72 4.71 8.17	NA NA NA
Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine		w		6.41 4.84 7.89 4.78	6.72 4.71 8.17 5.52	NA NA NA

Table 10: Women table for biomarkers significance, disease Depression

Adenosine Deaminase	No correction	Benjamini	Bonferroni	Avg Disease 4.9	Avg Healthy	Imag NA
Adenosine Deaminase Artemin				4.9 0.23	4.72 0.09	NA NA
Axin-1				1.2	1.09	NA
Brain-derived neurotrophic factor				5.19	3.88	NA
Beta-nerve growth factor				2.01	1.91	NA
Caspase-8				1.36	1.4	NA
Eotaxin				7.79	7.77	NA
C-C motif chemokine 19				9.37	9.41	NA
C-C motif chemokine 20				6.63	6.05	NA
C-C motif chemokine 23				9.51	9.35	NA
C-C motif chemokine 25				6.54	6.05	NA
C-C motif chemokine 28				1.35	1.33	NA
C-C motif chemokine 3				2.17	2.16	NA
C-C motif chemokine 4				6.45	6.42	NA
Natural killer cell receptor 2B4				6.27	6.31	NA
CD40L receptor				9.32	9.18	NA
T-cell surface glycoprotein CD5				3.88	4	NA
T cell surface glycoprotein CD6 isoform				3.52	3.58	NA
CUB domain-containing protein 1				2.46	2.38	NA
Macrophage colony-stimulating factor 1				7.88	7.9	NA
Cystatin D				6.93	6.76	NA
Fractalkine				6.56	6.5	NA
C-X-C motif chemokine 1				8.76	8.89	NA
C-X-C motif chemokine 10				9.64	9.58	NA
C-X-C motif chemokine 11				7.09	7.24	NA
C-X-C motif chemokine 5				12.58	12.54	NA
C-X-C motif chemokine 6				8.97	9	NA
C-X-C motif chemokine 9				7.1	7.27	NA
Delta and Notch-like epidermal growth factor-related receptor				7.18	7.27	NA
Eukaryotic translation initiation factor 4E-binding protein 1				5.1	5.55	NA
Protein S100-A12				4.88	5.05	NA
Fibroblast growth factor 19				8.16	7.81	NA
Fibroblast growth factor 21				3.83	3.05	NA
Fibroblast growth factor 23				2.46	2.68	NA
Fibroblast growth factor 5				1.32	1.47	NA
Fms-related tyrosine kinase 3 ligand				8.97	8.84	NA
Glial cell line-derived neurotrophic factor				2.14	2.1	NA
Hepatocyte growth factor	ste ste ste ste	ste ste ste ste	ste ste ste ste	7.97	7.9	NA
Interferon gamma	www	***	***	0.99	1.01	NA
Interleukin-10				4.09	4.07	NA
Interleukin-10 receptor subunit alpha				1.34	1.45	NA
Interleukin-10 receptor subunit beta				7.52	7.46	NA
Interleukin-12 subunit beta	w/v			4.42	4.88	NA
Interleukin-13				1.84	1.62	NA
Interleukin-15 receptor subunit alpha				1.21	1.21	NA
Interleukin-17A				1.1	0.83	NA
Interleukin-17C				1.72	1.64	NA
Interleukin-18				7.41	6.98	NA
Interleukin-18 receptor 1				7.32	7.5	NA
Interleukin-1 alpha	sterstersterste	ste ste ste ste	ste ste ste ste	1.72	1.82	NA
Interleukin-2	*	***	***	1.22	1.23	NA
Interleukin-20	*			0.81 0.93	0.87 0.99	NA NA
Interleukin-20 receptor subunit alpha	ster ster ster ste	ste ste ste ste	ste ste ste ste			
Interleukin-22 receptor subunit alpha-1	www.w	***	***	2.26	2.26	NA
Interleukin-24 Interleukin-2 receptor subunit beta	www.w	***	***	1.34	1.38	NA
Interleukin-2 receptor subunit beta	strate strate	strate strate	de de de de	0.85	0.9	NA
	* * * *	***	***	1.43	1.49	NA
Interleukin-4				1.91	1.25	NA
Interleukin-5 Interleukin-6				3.04	2.23 2.81	NA NA
				2.92		
Interleukin-7 Interleukin-8				5.22	5.25	NA
				7.59	7.51	NA
Leukemia inhibitory factor				0.87	0.95	NA NA
Leukemia inhibitory factor receptor Monocyte chemotactic protein 1				3.34	3.37	
Monocyte chemotactic protein 1 Monocyte chemotactic protein 2				9.89 10.11	9.77 9.97	NA NA
-						
Monocyte chemotactic protein 3 Monocyte chemotactic protein 4				2.58	2.24 3.41	NA NA
Monocyte chemotactic protein 4 Matrix metalloproteinase-1				3.56		NA NA
VIALLE INCLANODIOTENBASE-1				7.16 8.96	6.98 8.94	NA NA
-						NA NA
Matrix metalloproteinase-10						NA
Matrix metalloproteinase-10 Neurturin				1.22	1.21	NT A
Matrix metalloproteinase-10 Neurturin Neurotrophin-3				1.22 2.13	2.11	NA NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin				1.22 2.13 9.8	2.11 9.71	NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M				1.22 2.13 9.8 4.71	2.11 9.71 4.8	NA NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1				1.22 2.13 9.8 4.71 4.94	2.11 9.71 4.8 4.87	NA NA NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor				1.22 2.13 9.8 4.71 4.94	2.11 9.71 4.8 4.87 9.15	NA NA NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2				1.22 2.13 9.8 4.71 4.94 9 2.93	2.11 9.71 4.8 4.87 9.15 2.89	NA NA NA NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Dsteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule	*			1.22 2.13 9.8 4.71 4.94 9 2.93 3.05	2.11 9.71 4.8 4.87 9.15 2.89 3.09	NA NA NA NA NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1	w.			1.22 2.13 9.8 4.71 4.94 9 2.93 3.05 2.57	2.11 9.71 4.8 4.87 9.15 2.89 3.09 1.98	NA NA NA NA NA NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein	*			1.22 2.13 9.8 4.71 4.94 9 2.93 3.05 2.57 2.75	2.11 9.71 4.8 4.87 9.15 2.89 3.09 1.98 2.57	NA NA NA NA NA NA NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein	w.			1.22 2.13 9.8 4.71 4.94 9 2.93 3.05 2.57 2.75 3.99	2.11 9.71 4.8 4.87 9.15 2.89 3.09 1.98 2.57 3.9	NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Dsteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfortansferase 1A1 STAM-binding protein Fransforming growth factor alpha Latency-associated peptide transforming growth factor beta-1	w			1.22 2.13 9.8 4.71 4.94 9 2.93 3.05 2.57 2.75 3.99 8.1	2.11 9.71 4.8 4.87 9.15 2.89 3.09 1.98 2.57 3.9 8.01	NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Fransforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Fumor necrosis factor	w			1.22 2.13 9.8 4.71 4.94 9 2.93 3.05 2.57 2.75 3.99 8.1 1.19	2.11 9.71 4.8 4.87 9.15 2.89 3.09 1.98 2.57 3.9 8.01 0.89	NA N
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SiR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Fransforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Fumor necrosis factor				1.22 2.13 9.8 4.71 4.94 9 2.93 3.05 2.57 2.75 3.99 8.1 1.19 3.76	2.11 9.71 4.8 4.87 9.15 2.89 3.09 1.98 2.57 3.9 8.01 0.89 4.02	NA N
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Deteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Fransforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Fumor necrosis factor FNF-beta Fumor necrosis factor receptor superfamily member 9	*			1.22 2.13 9.8 4.71 4.94 9 2.93 3.05 2.57 2.75 3.99 8.1 1.19 3.76 6.51	2.11 9.71 4.8 4.87 9.15 2.89 3.09 1.98 2.57 3.9 8.01 0.89 4.02 6.72	NA N
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Disteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfortansferase 1A1 STAM-binding protein Fransforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Fumor necrosis factor FINF-beta Fumor necrosis factor receptor superfamily member 9 Fumor necrosis factor ligand superfamily member 14				1.22 2.13 9.8 4.71 4.94 9 2.93 3.05 2.57 2.75 3.99 8.1 1.19 3.76 6.51 4.88	2.11 9.71 4.8 4.87 9.15 2.89 3.09 1.98 2.57 3.9 8.01 0.89 4.02 6.72 4.71	NA N
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Fumor necrosis factor TNF-beta Fumor necrosis factor receptor superfamily member 9 Fumor necrosis factor ligand superfamily member 14 FNF-related apoptosis-inducing ligand				1.22 2.13 9.8 4.71 4.94 9 2.93 3.05 2.57 2.75 3.99 8.1 1.19 3.76 6.51	2.11 9.71 4.8 4.87 9.15 2.89 3.09 1.98 2.57 3.9 8.01 0.89 4.02 6.72 4.71 8.17	NA N
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor receptor superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine	w			1.22 2.13 9.8 4.71 4.94 9 2.93 3.05 2.57 2.75 3.99 8.1 1.19 3.76 6.51 4.88 8.18 5.38	2.11 9.71 4.8 4.87 9.15 2.89 3.09 1.98 2.57 3.9 8.01 0.89 4.02 6.72 4.71 8.17 5.52	NA N
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfortansferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine Thymic stromal lymphopoietin		*****	张妆妆	1.22 2.13 9.8 4.71 4.94 9 2.93 3.05 2.57 2.75 3.99 8.1 1.19 3.76 6.51 4.88 8.18 5.38	2.11 9.71 4.8 4.87 9.15 2.89 3.09 1.98 2.57 3.9 8.01 0.89 4.02 6.72 4.71 8.17 5.52 1.1	NA N
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor receptor superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine	w	***	***	1.22 2.13 9.8 4.71 4.94 9 2.93 3.05 2.57 2.75 3.99 8.1 1.19 3.76 6.51 4.88 8.18 5.38	2.11 9.71 4.8 4.87 9.15 2.89 3.09 1.98 2.57 3.9 8.01 0.89 4.02 6.72 4.71 8.17 5.52	NA N

Table 11: Women table for biomarkers significance, disease Food allergy

Protein	No correction	Benjamini	Bonferroni	Avg Disease	Avg Healthy	Imag
Adenosine Deaminase Artemin				4.89	4.72	NA NA
Artemin Axin-1				0.3 1.08	0.09 1.09	NA NA
Brain-derived neurotrophic factor				3.48	3.88	NA
Beta-nerve growth factor				1.91	1.91	NA
Caspase-8				1.63	1.4	NA
Eotaxin				7.84	7.77	NA
C-C motif chemokine 19				9.09	9.41	NA
C-C motif chemokine 20	*			5.74	6.05	NA
C-C motif chemokine 23				9.34	9.35	NA
C-C motif chemokine 25 C-C motif chemokine 28	w			6.1	6.05 1.33	NA
C-C motif chemokine 28 C-C motif chemokine 3				1.05 2.19	2.16	NA NA
C-C motif chemokine 4				6.32	6.42	NA
Natural killer cell receptor 2B4				6.39	6.31	NA
CD40L receptor				9.37	9.18	NA
T-cell surface glycoprotein CD5				4.06	4	NA
T cell surface glycoprotein CD6 isoform				3.58	3.58	NA
CUB domain-containing protein 1				2.48	2.38	NA
Macrophage colony-stimulating factor 1 Cystatin D				8.01	7.9 6.76	NA NA
Cystatin D Fractalkine				6.89 6.68	6.76	NA NA
C-X-C motif chemokine 1				8.8	8.89	NA
C-X-C motif chemokine 10				9.44	9.58	NA
C-X-C motif chemokine 11				6.98	7.24	NA
C-X-C motif chemokine 5				12.57	12.54	NA
C-X-C motif chemokine 6				9.01	9	NA
C-X-C motif chemokine 9				7.19	7.27	NA
Delta and Notch-like epidermal growth factor-related receptor				7.43	7.27	NA
Eukaryotic translation initiation factor 4E-binding protein 1 Protein S100-A12				5.27 4.74	5.55 5.05	NA NA
Fibroblast growth factor 19				4.74 8.16	7.81	NA NA
Fibroblast growth factor 21				3.46	3.05	NA
Fibroblast growth factor 23	*			2.28	2.68	NA
Fibroblast growth factor 5				1.39	1.47	NA
Fms-related tyrosine kinase 3 ligand				8.84	8.84	NA
Glial cell line-derived neurotrophic factor				1.89	2.1	NA
Hepatocyte growth factor				8.09	7.9	NA
Interferon gamma	***	the the the the	***	0.99	1.01	NA
Interleukin-10 Interleukin-10 receptor subunit alpha				4.01 1.35	4.07 1.45	NA NA
Interleukin-10 receptor subunit aipna Interleukin-10 receptor subunit beta				7.56	7.46	NA
Interleukin-10 receptor subunit beta				4.87	4.88	NA
Interleukin-13				1.78	1.62	NA
Interleukin-15 receptor subunit alpha				1.15	1.21	NA
Interleukin-17A				1.15	0.83	NA
Interleukin-17C				1.58	1.64	NA
Interleukin-18				6.96	6.98	NA
Interleukin-18 receptor 1				7.46	7.5	NA
Interleukin-1 alpha Interleukin-2	ste ste ste ste	ste ste ste ste	she she she she	1.39 1.22	1.82 1.23	NA NA
Interleukin-2	ste ste			0.78	0.87	NA
Interleukin-20 receptor subunit alpha	str str str	skr skr	w	0.88	0.99	NA
Interleukin-22 receptor subunit alpha-1	***	***	***	2.26	2.26	NA
Interleukin-24	ste ste ste ste	***	***	1.34	1.38	NA
Interleukin-2 receptor subunit beta				0.87	0.9	NA
Interleukin-33	ste ste ste ste	***	***	1.43	1.49	NA
Interleukin-4				1.83	1.25	NA
Interleukin-5 Interleukin-6				3.44	2.23	NA
Interleukin-6 Interleukin-7				3.24 5.33	2.81 5.25	NA NA
Interleukin-8				7.72	7.51	NA
Leukemia inhibitory factor				0.89	0.95	NA
Leukemia inhibitory factor receptor				3.29	3.37	NA
Monocyte chemotactic protein 1				9.89	9.77	NA
Monocyte chemotactic protein 2				9.87	9.97	NA
Monocyte chemotactic protein 3				2.56	2.24	NA
Monocyte chemotactic protein 4				3.51	3.41	NA
Matrix metalloproteinase-1 Matrix metalloproteinase-10				6.88 9	6.98 8.94	NA NA
Neurturin				1.25	1.21	NA
Neurotrophin-3				2.07	2.11	NA
Osteoprotegerin				9.55	9.71	NA
Oncostatin-M				4.82	4.8	NA
Programmed cell death 1 ligand 1				5.08	4.87	NA
Stem cell factor				9.3	9.15	NA
SIR2-like protein 2				2.96	2.89	NA
Signaling lymphocytic activation molecule Sulfotransferase 1A1				3.11 1.68	3.09 1.98	NA NA
Sulfotransferase 1A1 STAM-binding protein				1.68 2.76	1.98 2.57	NA NA
STAM-binding protein Transforming growth factor alpha				3.77	3.9	NA NA
Latency-associated peptide transforming growth factor beta-1				8.08	8.01	NA
Tumor necrosis factor				1.25	0.89	NA
TNF-beta	*			4.22	4.02	NA
Tumor necrosis factor receptor superfamily member 9				6.73	6.72	NA
Tumor necrosis factor ligand superfamily member 14				4.93	4.71	NA
TNF-related apoptosis-inducing ligand				8.04	8.17	NA
TNF-related activation-induced cytokine				5.63	5.52	NA
Thymic stromal lymphopoietin	***	www.w	shr shr shr shr	1.08	1.1	NA
Trymic stronia tymphopoleim Tumor necrosis factor Urokinase-type plasminogen activator				9	8.88 9.88	NA NA

Table 12: Women table for biomarkers significance, disease ADHD

Protein	No correction	Benjamini	Bonferroni	Avg Disease	Avg Healthy	Image
Adenosine Deaminase	ste ste ste ste	***	ste ste ste ste	4.63	4.72	NA NA
Artemin Axin-1				0.03 1.25	0.09 1.09	NA NA
Axin-1 Brain-derived neurotrophic factor				4.55	3.88	NA NA
Beta-nerve growth factor				2.23	1.91	NA
Caspase-8				1.37	1.4	NA
Eotaxin				7.76	7.77	NA
C-C motif chemokine 19				9.53	9.41	NA
C-C motif chemokine 20				6.92	6.05	NA
C-C motif chemokine 23				9.3	9.35	NA
C-C motif chemokine 25				6.17	6.05	NA
C-C motif chemokine 28				1.2	1.33	NA
C-C motif chemokine 3				2.05	2.16	NA
C-C motif chemokine 4				6.18	6.42	NA
Natural killer cell receptor 2B4	w			5.95	6.31	NA
CD40L receptor				9.08	9.18	NA
T-cell surface glycoprotein CD5				3.68	4	NA
T cell surface glycoprotein CD6 isoform				3.5	3.58	NA
CUB domain-containing protein 1				2.34	2.38	NA
Macrophage colony-stimulating factor 1				7.76	7.9	NA
Cystatin D				6.77	6.76	NA
Fractalkine				6.4	6.5	NA
C-X-C motif chemokine 1				8.69	8.89	NA
C-X-C motif chemokine 10				9.2	9.58	NA
C-X-C motif chemokine 11				6.75	7.24	NA
C-X-C motif chemokine 5				12.52	12.54	NA
C-X-C motif chemokine 6				9.26	9	NA
C-X-C motif chemokine 9				6.84	7.27	NA
Delta and Notch-like epidermal growth factor-related receptor				7.22	7.27	NA
Eukaryotic translation initiation factor 4E-binding protein 1				5.67	5.55	NA
Protein S100-A12				4.54	5.05	NA
Fibroblast growth factor 19				8.34	7.81	NA
Fibroblast growth factor 21				2.62	3.05	NA
Fibroblast growth factor 23				2.77	2.68	NA
Fibroblast growth factor 5				1.41	1.47	NA
Fms-related tyrosine kinase 3 ligand				8.89	8.84	NA
Glial cell line-derived neurotrophic factor				1.88	2.1	NA
Hepatocyte growth factor				7.87	7.9	NA
Interferon gamma	***	ste ste ste ste	who who who	0.99	1.01	NA
Interleukin-10				3.76	4.07	NA
Interleukin-10 receptor subunit alpha				1.1	1.45	NA
Interleukin-10 receptor subunit beta				7.33	7.46	NA
Interleukin-12 subunit beta				4.68	4.88	NA
Interleukin-13	***	ste ste ste ste	the the the the	1.54	1.62	NA
Interleukin-15 receptor subunit alpha				1.14	1.21	NA
Interleukin-17A				0.69	0.83	NA
Interleukin-17C				1.8	1.64	NA
Interleukin-18				7.18	6.98	NA
Interleukin-18 receptor 1				7.63	7.5	NA
Interleukin-1 alpha	***	de de de de	the the the the	1.61	1.82	NA
Interleukin-2	***	***	she she she	1.22	1.23	NA
Interleukin-20	w w			0.78	0.87	NA
Interleukin-20 receptor subunit alpha			the the the the	0.9	0.99	NA
Interleukin-22 receptor subunit alpha-1	***	de de de de	she she she	2.26	2.26	NA
Interleukin-24	***	de de de de	***	1.61	1.38	NA
Interleukin-2 receptor subunit beta				0.85	0.9	NA
Interleukin-33	***	***	***	1.43	1.49	NA
Interleukin-4				1.38	1.25	NA
Interleukin-5	***	ser str	w	1.78	2.23	NA
Interleukin-6				2.63	2.81	NA
Interleukin-7				4.89	5.25	NA
Interleukin-8				7.65	7.51	NA
Leukemia inhibitory factor				0.86	0.95	NA
Leukemia inhibitory factor receptor				3.29	3.37	NA
Monocyte chemotactic protein 1				9.98	9.77	NA
Monocyte chemotactic protein 2	*			9.84	9.97	NA
Monocyte chemotactic protein 3	*			2.07	2.24	NA
Monocyte chemotactic protein 4				3.72	3.41	NA
Matrix metalloproteinase-1				6.73	6.98	NA
Matrix metalloproteinase-10				8.98	8.94	NA
Neurturin				1.43	1.21	NA
Neurotrophin-3				2.03	2.11	NA
Osteoprotegerin				9.67	9.71	NA
Oncostatin-M				4.67	4.8	NA
Programmed cell death 1 ligand 1				4.67	4.87	NA
Stem cell factor				8.88	9.15	NA
SIR2-like protein 2				3.06	2.89	NA
Signaling lymphocytic activation molecule				2.83	3.09	NA
Sulfotransferase 1A1				2.44	1.98	NA
STAM-binding protein				2.69	2.57	NA
Transforming growth factor alpha				3.59	3.9	NA
Latency-associated peptide transforming growth factor beta-1		ata.		7.9	8.01	NA
Tumor necrosis factor	**	*		0.84	0.89	NA
TNF-beta				3.48	4.02	NA
Tumor necrosis factor receptor superfamily member 9				6.34	6.72	NA
Tumor necrosis factor ligand superfamily member 14				4.58	4.71	NA
TNF-related apoptosis-inducing ligand				7.99	8.17	NA
TNF-related activation-induced cytokine				5.37	5.52	NA
						NA
Thymic stromal lymphopoietin	strate strate	***	***	1.08	1.1	1471
	the the the	* * * *	***	1.08 8.77	8.88	NA
Thymic stromal lymphopoietin	ste ste ste	ster ster ste	***			

Table 13: Women table for biomarkers significance, disease Dorsalgia, unspecified

Protein	No correction	Benjamini	Bonferroni	Avg Disease	Avg Healthy	Imag
Adenosine Deaminase Artemin	W			5.28 0.07	4.72 0.09	NA NA
Axin-1				1.02	1.09	NA NA
Brain-derived neurotrophic factor				5.92	3.88	NA
Beta-nerve growth factor				1.99	1.91	NA
Caspase-8				1.42	1.4	NA
Eotaxin				7.72	7.77	NA
C-C motif chemokine 19				9.86	9.41	NA
C-C motif chemokine 20				5.74	6.05	NA
C-C motif chemokine 23				9.29	9.35	NA
C-C motif chemokine 25				5.78	6.05	NA
C-C motif chemokine 28				1.18	1.33	NA
C-C motif chemokine 3				2.43	2.16	NA
C-C motif chemokine 4				6.57	6.42	NA
Natural killer cell receptor 2B4				6.42	6.31	NA
CD40L receptor				9.26	9.18	NA
T-cell surface glycoprotein CD5				4.13	4	NA
T cell surface glycoprotein CD6 isoform				3.76	3.58	NA
CUB domain-containing protein 1				2.8	2.38	NA
Macrophage colony-stimulating factor 1				8.07	7.9	NA
Cystatin D				6.42	6.76	NA
Fractalkine				6.64	6.5	NA
C-X-C motif chemokine 1				8.86	8.89	NA
C-X-C motif chemokine 10				10	9.58	NA
C-X-C motif chemokine 11				7.48	7.24	NA
C-X-C motif chemokine 5				12.71	12.54	NA
C-X-C motif chemokine 6				8.99	9	NA
C-X-C motif chemokine 9				7.42	7.27	NA
Delta and Notch-like epidermal growth factor-related receptor				7.24	7.27	NA
Eukaryotic translation initiation factor 4E-binding protein 1 Protein S100-A12				4.31 4.61	5.55 5.05	NA NA
Fibroblast growth factor 19 Fibroblast growth factor 21				8.41 3.76	7.81 3.05	NA NA
Fibroblast growth factor 23	ste ste ste	ste ste		2.22	2.68	NA
Fibroblast growth factor 5				1.35	1.47	NA
Fms-related tyrosine kinase 3 ligand				8.92	8.84	NA
Glial cell line-derived neurotrophic factor	w			1.77	2.1	NA
Hepatocyte growth factor				7.87	7.9	NA
Interferon gamma	***	***	she she she she	0.99	1.01	NA
Interleukin-10				4.01	4.07	NA
Interleukin-10 receptor subunit alpha	w			1.03	1.45	NA
Interleukin-10 receptor subunit beta				7.53	7.46	NA
Interleukin-12 subunit beta				4.7	4.88	NA
Interleukin-13				1.67	1.62	NA
Interleukin-15 receptor subunit alpha				1.22	1.21	NA
Interleukin-17A				0.85	0.83	NA
Interleukin-17C				1.49	1.64	NA
Interleukin-18				7.33	6.98	NA
Interleukin-18 receptor 1				7.74	7.5	NA
Interleukin-1 alpha				1.55	1.82	NA
Interleukin-2	***	***	***	1.22	1.23	NA
Interleukin-20	w			0.78	0.87	NA
Interleukin-20 receptor subunit alpha				0.93	0.99	NA
Interleukin-22 receptor subunit alpha-1	ster ster ster	ste ste ste ste	she she she she	2.26	2.26	NA
Interleukin-24	***	***	* * * *	1.34	1.38	NA
Interleukin-2 receptor subunit beta				0.87	0.9	NA
Interleukin-33	***	***	***	1.43	1.49	NA
Interleukin-4				2.02	1.25	NA
Interleukin-5	***	***	* * * *	1.71	2.23	NA
Interleukin-6				2.91	2.81	NA
Interleukin-7				5.19	5.25	NA
Interleukin-8				7.52	7.51	NA
Leukemia inhibitory factor	the the the the	ste ste ste ste	ste ste ste ste	0.8	0.95	NA
Leukemia inhibitory factor receptor				3.22	3.37	NA
Monocyte chemotactic protein 1				9.99	9.77	NA
Monocyte chemotactic protein 2				9.64	9.97	NA
Monocyte chemotactic protein 3				2.49	2.24	NA
Monocyte chemotactic protein 4				3.51	3.41	NA
Matrix metalloproteinase-1				7.03	6.98	NA
Matrix metalloproteinase-10				8.76	8.94	NA
Neurturin	w			1.14	1.21	NA
Neurotrophin-3				2.04	2.11	NA
Osteoprotegerin				9.67	9.71	NA
Oncostatin-M				4.6	4.8	NA
Programmed cell death 1 ligand 1				4.87	4.87	NA
Stem cell factor				9.06	9.15	NA
SIR2-like protein 2				2.87	2.89	NA
Signaling lymphocytic activation molecule				2.98	3.09	NA
Sulfotransferase 1A1				2.47	1.98	NA
STAM-binding protein				2.46	2.57	NA
Transforming growth factor alpha				3.68	3.9	NA
Latency-associated peptide transforming growth factor beta-1				7.81	8.01	NA
Tumor necrosis factor	w w	skr		0.84	0.89	NA
TNF-beta	w			4.4	4.02	NA
Tumor necrosis factor receptor superfamily member 9				6.68	6.72	NA
Tumor necrosis factor ligand superfamily member 14				4.77	4.71	NA
TNF-related apoptosis-inducing ligand				8	8.17	NA
TNF-related activation-induced cytokine				5.3	5.52	NA
Thymic stromal lymphopoietin				1.14	1.1	NA
				8.81	8.88	NA
Tumor necrosis factor Urokinase-type plasminogen activator				8.81 9.86	8.88 9.88	NA NA

Table 14: Women table for biomarkers significance, disease Anxiety

Protein	No correction	Benjamini	Bonferroni	Avg Disease	Avg Healthy	Image
Adenosine Deaminase Artemin				5.06	4.72	NA NA
Artemin Axin-1				0.16 1.85	0.09 1.09	NA NA
Brain-derived neurotrophic factor				4.67	3.88	NA
Beta-nerve growth factor				1.93	1.91	NA
Caspase-8				1.72	1.4	NA
Eotaxin				8.21	7.77	NA
C-C motif chemokine 19				10.02	9.41	NA
C-C motif chemokine 20				6.58	6.05	NA
C-C motif chemokine 23				9.57	9.35	NA
C-C motif chemokine 25 C-C motif chemokine 28				5.87 1.51	6.05 1.33	NA NA
C-C motif chemokine 3				2.54	2.16	NA
C-C motif chemokine 4				6.38	6.42	NA
Natural killer cell receptor 2B4				6.27	6.31	NA
CD40L receptor				9.21	9.18	NA
T-cell surface glycoprotein CD5				3.8	4	NA
T cell surface glycoprotein CD6 isoform	***	ste ste	*	3.02	3.58	NA
CUB domain-containing protein 1				2.69	2.38	NA
Macrophage colony-stimulating factor 1 Cystatin D				8.05 6.4	7.9 6.76	NA NA
Fractalkine				6.4	6.5	NA NA
C-X-C motif chemokine 1				9.03	8.89	NA
C-X-C motif chemokine 10				9.53	9.58	NA
C-X-C motif chemokine 11				6.8	7.24	NA
C-X-C motif chemokine 5				12.55	12.54	NA
C-X-C motif chemokine 6				9.28	9	NA
C-X-C motif chemokine 9				6.9	7.27	NA
Delta and Notch-like epidermal growth factor-related receptor				7.25	7.27	NA
Eukaryotic translation initiation factor 4E-binding protein 1 Protein S100-A12				6.26 5.87	5.55 5.05	NA NA
Fibroblast growth factor 19				7.43	7.81	NA
Fibroblast growth factor 21				4.16	3.05	NA
Fibroblast growth factor 23				2.77	2.68	NA
Fibroblast growth factor 5				1.22	1.47	NA
Fms-related tyrosine kinase 3 ligand				9.11	8.84	NA
Glial cell line-derived neurotrophic factor				2.11	2.1	NA
Hepatocyte growth factor	she she she she	ste ste ste ste	ste ste ste	8.29	7.9	NA
Interferon gamma Interleukin-10		~ ~ ~	***	0.99 4.09	1.01 4.07	NA NA
Interleukin-10 Interleukin-10 receptor subunit alpha				1.88	1.45	NA
Interleukin-10 receptor subunit beta				7.59	7.46	NA
Interleukin-12 subunit beta				4.85	4.88	NA
Interleukin-13	ste ste ste ste	* * * *	* * * *	1.54	1.62	NA
Interleukin-15 receptor subunit alpha				1.28	1.21	NA
Interleukin-17A				1.17	0.83	NA
Interleukin-17C				2.15	1.64	NA
Interleukin-18 Interleukin-18 receptor 1				7.39	6.98	NA
Interleukin-18 receptor 1 Interleukin-1 alpha	ste ste ste ste	***	ste ste ste ste	7.75 1.8	7.5 1.82	NA NA
Interleukin-2	***	***	***	1.22	1.23	NA
Interleukin-20	ste ste ste	***	ste ste ste ste	0.81	0.87	NA
Interleukin-20 receptor subunit alpha				1.15	0.99	NA
Interleukin-22 receptor subunit alpha-1	***	***	***	2.26	2.26	NA
Interleukin-24	ste ste ste	***	***	1.34	1.38	NA
Interleukin-2 receptor subunit beta	***	***	***	0.85	0.9	NA
Interleukin-33	***	***	***	1.43	1.49	NA
Interleukin-4 Interleukin-5	she she she	***	ste ste ste ste	1.55 1.65	1.25 2.23	NA NA
Interleukin-6				3.6	2.81	NA
Interleukin-7				5.24	5.25	NA
Interleukin-8				7.7	7.51	NA
Leukemia inhibitory factor	***	ste ste ste ste	ste ste ste ste	0.8	0.95	NA
Leukemia inhibitory factor receptor				3.94	3.37	NA
Monocyte chemotactic protein 1	**	skr		10.27	9.77	NA
Monocyte chemotactic protein 2				10.15	9.97	NA NA
Monocyte chemotactic protein 3 Monocyte chemotactic protein 4				2.69 4.47	2.24 3.41	NA NA
Monocyte chemotactic protein 4 Matrix metalloproteinase-1				4.47 7.16	6.98	NA NA
Matrix metalloproteinase-1				9.01	8.94	NA
Neurturin	**	w		1.13	1.21	NA
Neurotrophin-3				2.05	2.11	NA
Osteoprotegerin				10.23	9.71	NA
Oncostatin-M				5.28	4.8	NA
Programmed cell death 1 ligand 1				4.69	4.87	NA
Stem cell factor				9.17	9.15	NA NA
SIR2-like protein 2 Signaling lymphocytic activation molecule				3.69 3.28	2.89 3.09	NA NA
Sulfotransferase 1A1				2.86	1.98	NA
STAM-binding protein				3.03	2.57	NA
Transforming growth factor alpha				4.01	3.9	NA
Latency-associated peptide transforming growth factor beta-1				8.05	8.01	NA
Tumor necrosis factor	she she she she	ste ste ste ste	ste ste ste ste	0.84	0.89	NA
TNF-beta				4.06	4.02	NA
Tumor necrosis factor receptor superfamily member 9				6.71	6.72	NA
Tumor necrosis factor ligand superfamily member 14				5.29	4.71	NA
TNF-related apoptosis-inducing ligand				8.26	8.17	NA
TNF-related activation-induced cytokine	she she she	ste ste ste ste	ste ste ste	5.25	5.52	NA NA
771			m m m ni	1.08	1.1	NA
Thymic stromal lymphopoietin						NT A
Thymic stromal lymphopoietin Tumor necrosis factor Urokinase-type plasminogen activator				9.08 9.95	8.88 9.88	NA NA

Table 15: Women table for biomarkers significance, disease Epilepsy, unspecified, not intractable, without status epilepticus

Protein Adenosine Deaminase	No correction	Benjamini	Bonferroni	Avg Disease 4.65	Avg Healthy 4.72	Image
Adenosine Deaminase Artemin				4.65 0.52	4.72 0.09	NA NA
Axin-1				1.08	1.09	NA
Brain-derived neurotrophic factor				4.71	3.88	NA
Beta-nerve growth factor				1.82	1.91	NA
Caspase-8				1.06	1.4	NA
Eotaxin				7.79	7.77	NA
C-C motif chemokine 19				9.24	9.41	NA
C-C motif chemokine 20				5.86	6.05	NA
C-C motif chemokine 23				9.58	9.35	NA
C-C motif chemokine 25				5.81	6.05	NA
C-C motif chemokine 28				1.07	1.33	NA
C-C motif chemokine 3				2.02	2.16	NA
C-C motif chemokine 4				6.56	6.42	NA
Natural killer cell receptor 2B4				6.1	6.31	NA
CD40L receptor				9.13	9.18	NA
T-cell surface glycoprotein CD5	w			3.94	4	NA
T cell surface glycoprotein CD6 isoform CUB domain-containing protein 1				3.87 2.36	3.58 2.38	NA NA
Macrophage colony-stimulating factor 1				7.84	7.9	NA
Cystatin D				6.66	7.9 6.76	NA NA
Fractalkine				6.39	6.5	NA
C-X-C motif chemokine 1				9.12	8.89	NA
C-X-C motif chemokine 10				9.7	9.58	NA
C-X-C motif chemokine 11				7.52	7.24	NA
C-X-C motif chemokine 5				12.74	12.54	NA
C-X-C motif chemokine 6				9.28	9	NA
C-X-C motif chemokine 9				7.44	7.27	NA
Delta and Notch-like epidermal growth factor-related receptor				6.97	7.27	NA
Eukaryotic translation initiation factor 4E-binding protein 1				4.96	5.55	NA
Protein S100-A12				4.53	5.05	NA
Fibroblast growth factor 19				8.36	7.81	NA
Fibroblast growth factor 21				3.53	3.05	NA
Fibroblast growth factor 23				2.16	2.68	NA
Fibroblast growth factor 5				1.68	1.47	NA
Fms-related tyrosine kinase 3 ligand				8.8	8.84	NA
Glial cell line-derived neurotrophic factor				1.89	2.1	NA
Hepatocyte growth factor				7.72	7.9	NA
Interferon gamma	* * * *	she who who who	she she she	0.99	1.01	NA
Interleukin-10				3.84	4.07	NA
Interleukin-10 receptor subunit alpha	ste ste	w		0.93	1.45	NA
Interleukin-10 receptor subunit beta				7.28	7.46	NA
Interleukin-12 subunit beta				4.82	4.88	NA
Interleukin-13				2.42	1.62	NA
Interleukin-15 receptor subunit alpha				1.15	1.21	NA
Interleukin-17A				0.82	0.83	NA
Interleukin-17C				1.64	1.64	NA
Interleukin-18				7.11	6.98	NA
Interleukin-18 receptor 1				7.59	7.5	NA
Interleukin-1 alpha				1.54	1.82	NA
Interleukin-2	***	***	***	1.22	1.23	NA
Interleukin-20	who who	ste ste		0.79	0.87	NA
Interleukin-20 receptor subunit alpha	***	www.	*	0.88	0.99	NA
Interleukin-22 receptor subunit alpha-1	****	***	www	2.26	2.26	NA
Interleukin-24	skr skr skr skr	***	***	1.35	1.38	NA
Interleukin-2 receptor subunit beta	www.w	sterstersterste		0.85	0.9	NA
Interleukin-33	****	***	www	1.43	1.49	NA
Interleukin-4				2.47	1.25	NA
Interleukin-5				3.12	2.23	NA
Interleukin-6				2.71	2.81	NA NA
Interleukin-7 Interleukin-8				5.26	5.25 7.51	NA NA
Interleukin-8 Leukemia inhibitory factor	ste ste ste ste	ste ste ste ste	ste ste ste ste	7.62 0.8	7.51 0.95	NA NA
Leukemia inhibitory factor Leukemia inhibitory factor receptor				3.2	3.37	NA NA
Monocyte chemotactic protein 1				10.03	9.77	NA NA
Monocyte chemotactic protein 1 Monocyte chemotactic protein 2				9.12	9.77	NA NA
Monocyte chemotactic protein 3				2.28	2.24	NA
Monocyte chemotactic protein 4				3.71	3.41	NA
Matrix metalloproteinase-1				6.5	6.98	NA
Matrix metalloproteinase-1				9.05	8.94	NA
Neurturin	she she she	***	ste ste ste ste	1.12	1.21	NA
Neurotrophin-3				1.84	2.11	NA
Osteoprotegerin				9.6	9.71	NA
Oncostatin-M				4.63	4.8	NA
Programmed cell death 1 ligand 1				4.86	4.87	NA
Stem cell factor				9.15	9.15	NA
SIR2-like protein 2				2.74	2.89	NA
Signaling lymphocytic activation molecule				2.74	3.09	NA
Sulfotransferase 1A1				1.77	1.98	NA
STAM-binding protein				2.41	2.57	NA
Transforming growth factor alpha				3.82	3.9	NA
Latency-associated peptide transforming growth factor beta-1				7.95	8.01	NA
Tumor necrosis factor	w w	w		0.84	0.89	NA
TNF-beta				3.87	4.02	NA
Tumor necrosis factor receptor superfamily member 9				6.55	6.72	NA
Tumor necrosis factor ligand superfamily member 14				4.74	4.71	NA
TNF-related apoptosis-inducing ligand				8.02	8.17	NA
TNF-related activation-induced cytokine	skr skr skr skr	ste ste ste ste	w w w	5.23	5.52	NA
Thymic stromal lymphopoietin	***	***	***	1.08	1.1	NA
	1					NA
Tumor necrosis factor				8.81	8.88	1474
Tumor necrosis factor Urokinase-type plasminogen activator				8.81 9.61	9.88	NA

 Table 16: Women table for biomarkers significance, disease Tension headache (TTH)

Protein Advancies Descriptors	No correction	Benjamini	Bonferroni	Avg Disease	Avg Healthy	Imag
Adenosine Deaminase Artemin				5 0.05	4.72 0.09	NA NA
Axin-1	*			1.3	1.09	NA NA
Brain-derived neurotrophic factor				3.07	3.88	NA
Beta-nerve growth factor				2.56	1.91	NA
Caspase-8				1.14	1.4	NA
Eotaxin				7.85	7.77	NA
C-C motif chemokine 19				9.05	9.41	NA
C-C motif chemokine 20 C-C motif chemokine 23				7.52 9.66	6.05 9.35	NA NA
C-C motif chemokine 25				6.39	6.05	NA NA
C-C motif chemokine 28				1.1	1.33	NA
C-C motif chemokine 3				2.09	2.16	NA
C-C motif chemokine 4				6.68	6.42	NA
Natural killer cell receptor 2B4				6.21	6.31	NA
CD40L receptor				9.08	9.18	NA
T-cell surface glycoprotein CD5				3.99	4	NA
T cell surface glycoprotein CD6 isoform				3.84	3.58 2.38	NA
CUB domain-containing protein 1 Macrophage colony-stimulating factor 1				2.53 7.78	7.9	NA NA
Cystatin D				6.97	6.76	NA
Fractalkine				6.48	6.5	NA
C-X-C motif chemokine 1				8.9	8.89	NA
C-X-C motif chemokine 10				9.06	9.58	NA
C-X-C motif chemokine 11				6.81	7.24	NA
C-X-C motif chemokine 5				12.83	12.54	NA
C-X-C motif chemokine 6				9.42	9	NA
C-X-C motif chemokine 9				7.03	7.27	NA NA
Delta and Notch-like epidermal growth factor-related receptor Eukaryotic translation initiation factor 4E-binding protein 1				7.34 5.76	7.27 5.55	NA NA
Protein S100-A12				5.5	5.05	NA
Fibroblast growth factor 19				8.58	7.81	NA
Fibroblast growth factor 21				3.38	3.05	NA
Fibroblast growth factor 23				2.7	2.68	NA
Fibroblast growth factor 5				1.61	1.47	NA
Fms-related tyrosine kinase 3 ligand				8.88	8.84	NA
Glial cell line-derived neurotrophic factor				2.28	2.1	NA
Hepatocyte growth factor	she she she she	ste ste ste	ste ste ste ste	8.03 0.99	7.9 1.01	NA NA
Interferon gamma Interleukin-10				4.09	4.07	NA
Interleukin-10 receptor subunit alpha				1.07	1.45	NA
Interleukin-10 receptor subunit beta				7.36	7.46	NA
Interleukin-12 subunit beta				4.72	4.88	NA
Interleukin-13	de de de de	***	** * *	1.54	1.62	NA
Interleukin-15 receptor subunit alpha				1.12	1.21	NA
Interleukin-17A				0.72	0.83	NA
Interleukin-17C				1.85	1.64	NA
Interleukin-18 Interleukin-18 receptor 1				7.41	6.98	NA
Interleukin-18 receptor 1 Interleukin-1 alpha	ster ster ster ste	ste ste ste ste	ste ste ste ste	7.64 1.8	7.5 1.82	NA NA
Interleukin-2	***	***	***	1.22	1.23	NA
Interleukin-20	ste ste ste	***	* * * *	0.81	0.87	NA
Interleukin-20 receptor subunit alpha				0.92	0.99	NA
Interleukin-22 receptor subunit alpha-1	***	***	***	2.26	2.26	NA
Interleukin-24				1.55	1.38	NA
Interleukin-2 receptor subunit beta	***	***	***	0.85	0.9	NA
Interleukin-33	***	***	***	1.43	1.49	NA
Interleukin-4 Interleukin-5				2.01 2.22	1.25 2.23	NA
Interleukin-5 Interleukin-6				3	2.23	NA NA
Interleukin-6 Interleukin-7				5.31	5.25	NA
Interleukin-8				7.61	7.51	NA
Leukemia inhibitory factor				0.94	0.95	NA
Leukemia inhibitory factor receptor				3.32	3.37	NA
Monocyte chemotactic protein 1				10.17	9.77	NA
Monocyte chemotactic protein 2				9.78	9.97	NA
Monocyte chemotactic protein 3				2.36	2.24	NA
Monocyte chemotactic protein 4 Matrix metalloproteinase-1				4.04	3.41	NA
Matrix metalloproteinase-1 Matrix metalloproteinase-10				6.88 9.26	6.98 8.94	NA NA
Neurturin	ste ste ste	****	***	1.12	1.21	NA
Neurotrophin-3				2.05	2.11	NA
Osteoprotegerin				9.85	9.71	NA
Oncostatin-M				5	4.8	NA
Programmed cell death 1 ligand 1				5.08	4.87	NA
Stem cell factor				8.97	9.15	NA
SIR2-like protein 2				3.05	2.89	NA
Signaling lymphocytic activation molecule Sulfotransferase 1A1				2.98 2.49	3.09 1.98	NA NA
Sulfotransferase 1A1 STAM-binding protein				2.49	1.98 2.57	NA NA
STAM-binding protein Transforming growth factor alpha				4.05	3.9	NA NA
Latency-associated peptide transforming growth factor beta-1				8.26	8.01	NA
Tumor necrosis factor				0.86	0.89	NA
TNF-beta				3.67	4.02	NA
Tumor necrosis factor receptor superfamily member 9				6.67	6.72	NA
Tumor necrosis factor ligand superfamily member 14				4.87	4.71	NA
TNF-related apoptosis-inducing ligand				8.26	8.17	NA
					5.52	NA
TNF-related activation-induced cytokine	***	***	***	5.89		
Thymic stromal lymphopoietin	***	also also also also	***	1.08	1.1	NA
TNF-related activation-induced cytokine Thymic stromal lymphopoietin Tumor necrosis factor Urokinase-type plasminogen activator						

 Table 17: Women table for biomarkers significance, disease Scoliosis

Protein Adenosine Deaminase	No correction	Benjamini	Bonferroni	Avg Disease 4.62	Avg Healthy 4.72	Imag NA
Artemin	she she she she	ste ste ste	ste ste ste	0.03	0.09	NA NA
Axin-1				0.92	1.09	NA
Brain-derived neurotrophic factor				6.53	3.88	NA
Beta-nerve growth factor				1.65	1.91	NA
Caspase-8				1.17	1.4	NA
Eotaxin				7.75	7.77	NA
C-C motif chemokine 19				8.96	9.41	NA
C-C motif chemokine 20				5.88	6.05	NA
C-C motif chemokine 23				9.04	9.35	NA
C-C motif chemokine 25				5.71	6.05	NA
C-C motif chemokine 28				1.23	1.33	NA
C-C motif chemokine 3				2.32	2.16	NA
C-C motif chemokine 4				6.32	6.42	NA
Natural killer cell receptor 2B4				6.09	6.31	NA
CD40L receptor				9.13	9.18	NA
T-cell surface glycoprotein CD5				3.72	4	NA
T cell surface glycoprotein CD6 isoform				3.26	3.58	NA
CUB domain-containing protein 1				3.01	2.38	NA
Macrophage colony-stimulating factor 1				7.86	7.9	NA
Cystatin D				6.35	6.76	NA
Fractalkine	***	***	***	6.31	6.5	NA
C-X-C motif chemokine 1	*			8.7	8.89	NA
C-X-C motif chemokine 10				9.26	9.58	NA
C-X-C motif chemokine 11				7.24	7.24	NA
C-X-C motif chemokine 5				12.66	12.54	NA NA
C-X-C motif chemokine 6				8.89	9	NA NA
C-X-C motif chemokine 9				7.14	7.27	NA NA
Delta and Notch-like epidermal growth factor-related receptor Eukaryotic translation initiation factor 4E-binding protein 1				7.04 4.41	7.27 5.55	NA NA
Eukaryotic translation initiation factor 4E-binding protein 1 Protein S100-A12				4.41	5.55	NA NA
				7.91	7.81	NA
Fibroblast growth factor 19 Fibroblast growth factor 21				3.19	3.05	NA NA
Fibroblast growth factor 23				2.1	2.68	NA
Fibroblast growth factor 5				1.45	1.47	NA
Fms-related tyrosine kinase 3 ligand				9.32	8.84	NA
Glial cell line-derived neurotrophic factor				1.71	2.1	NA
Hepatocyte growth factor				7.74	7.9	NA
Interferon gamma	ske ske ske ske	she she she she	she she she she	0.99	1.01	NA
Interleukin-10				3.81	4.07	NA
Interleukin-10 receptor subunit alpha	w			0.83	1.45	NA
interleukin-10 receptor subunit beta				7.25	7.46	NA
Interleukin-12 subunit beta				4.2	4.88	NA
Interleukin-13				1.59	1.62	NA
Interleukin-15 receptor subunit alpha	ste ste	w		1.04	1.21	NA
Interleukin-17A				0.8	0.83	NA
Interleukin-17C				1.57	1.64	NA
Interleukin-18				6.87	6.98	NA
Interleukin-18 receptor 1				7.82	7.5	NA
Interleukin-1 alpha				1.54	1.82	NA
Interleukin-2	***	***	***	1.22	1.23	NA
Interleukin-20				0.79	0.87	NA
Interleukin-20 receptor subunit alpha	ste ste ste	shr shr	w	0.88	0.99	NA
Interleukin-22 receptor subunit alpha-1	ske ske ske ske	***	***	2.26	2.26	NA
Interleukin-24	ske ske ske ske	***	***	1.34	1.38	NA
Interleukin-2 receptor subunit beta	ste ste ste ste	www.w	sh sh sh sh	0.85	0.9	NA
Interleukin-33	ske ske ske ske	***	***	1.43	1.49	NA
Interleukin-4				2.15	1.25	NA
Interleukin-5	sk sk sk sk	***	***	1.71	2.23	NA
Interleukin-6				2.49	2.81	NA
Interleukin-7				5.23	5.25	NA
Interleukin-8				7.67	7.51	NA
Leukemia inhibitory factor	she she she	***	** * *	0.8	0.95	NA
Leukemia inhibitory factor receptor				3.05	3.37	NA
Monocyte chemotactic protein 1				9.9	9.77	NA
Monocyte chemotactic protein 2				9.75	9.97	NA
Monocyte chemotactic protein 3				2.39	2.24	NA
Monocyte chemotactic protein 4				3.54	3.41	NA
Matrix metalloproteinase-1				7.13	6.98	NA
Matrix metalloproteinase-10	l			8.78	8.94	NA
Neurturin	***	ste ste ste ste	***	1.12	1.21	NA
Neurotrophin-3				1.85	2.11	NA
Osteoprotegerin				9.76	9.71	NA
	1			4.87	4.8	NA
				4.71	4.87	NA
Programmed cell death 1 ligand 1				0.574		NA
Programmed cell death 1 ligand 1 Stem cell factor				8.71	9.15	
Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2				2.67	2.89	NA
Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule				2.67 2.92	2.89 3.09	NA
Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1				2.67 2.92 2.2	2.89 3.09 1.98	NA NA
Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein				2.67 2.92 2.2 2.44	2.89 3.09 1.98 2.57	NA NA NA
Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Fransforming growth factor alpha				2.67 2.92 2.2 2.44 3.79	2.89 3.09 1.98 2.57 3.9	NA NA NA
Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulforransferase 1A1 STAM-binding protein Fransforming growth factor alpha Latency-associated peptide transforming growth factor beta-1				2.67 2.92 2.2 2.44 3.79 7.72	2.89 3.09 1.98 2.57 3.9 8.01	NA NA NA NA
Programmed cell death 1 ligand 1 Stem cell factor SiR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Fransforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Fumor necrosis factor	w.w.	w		2.67 2.92 2.2 2.44 3.79 7.72 0.84	2.89 3.09 1.98 2.57 3.9 8.01 0.89	NA NA NA NA NA
Programmed cell death 1 ligand 1 Stem cell factor SiR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Fransforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Fumor necrosis factor	**	w		2.67 2.92 2.2 2.44 3.79 7.72 0.84 4.23	2.89 3.09 1.98 2.57 3.9 8.01 0.89 4.02	NA NA NA NA NA NA
Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Fransforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Fumor necrosis factor FINF-beta Fumor necrosis factor receptor superfamily member 9	**	w		2.67 2.92 2.2 2.44 3.79 7.72 0.84 4.23 6.3	2.89 3.09 1.98 2.57 3.9 8.01 0.89 4.02 6.72	NA NA NA NA NA NA NA NA
Programmed cell death 1 ligand 1 Stem cell factor Sitra-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Fransforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Fumor necrosis factor FINF-beta Fumor necrosis factor receptor superfamily member 9 Fumor necrosis factor ligand superfamily member 14	- 被 - 被	w		2.67 2.92 2.2 2.44 3.79 7.72 0.84 4.23 6.3 4.82	2.89 3.09 1.98 2.57 3.9 8.01 0.89 4.02 6.72 4.71	NA NA NA NA NA NA NA NA NA
Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfortansferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor INF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 INF-related apoptosis-inducing ligand	W W	*		2.67 2.92 2.2 2.44 3.79 7.72 0.84 4.23 6.3 4.82 7.77	2.89 3.09 1.98 2.57 3.9 8.01 0.89 4.02 6.72 4.71 8.17	NA
Programmed cell death 1 ligand 1 Stem cell factor Sitra-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine		*		2.67 2.92 2.2 2.44 3.79 7.72 0.84 4.23 6.3 4.82 7.77 4.87	2.89 3.09 1.98 2.57 3.9 8.01 0.89 4.02 6.72 4.71 8.17 5.52	NA
Programmed cell death 1 ligand 1 Stem cell factor Sinz-like protein 2 Signaling lymphocytic activation molecule Sulforransferase 1A1 STAM-binding protein Fransforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Fumor necrosis factor FINF-beta Fumor necrosis factor receptor superfamily member 9 Fumor necrosis factor ligand superfamily member 14 FINF-related apoptosis-inducing ligand FINF-related activation-induced cytokine Finymic stromal lymphopoietin	**	**	依赖林縣	2.67 2.92 2.2 2.44 3.79 7.72 0.84 4.23 6.3 4.82 7.77 4.87	2.89 3.09 1.98 2.57 3.9 8.01 0.89 4.02 6.72 4.71 8.17 5.52	NA N
Programmed cell death 1 ligand 1 Stem cell factor Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Fumor necrosis factor FNF-beta Fumor necrosis factor receptor superfamily member 9 Fumor necrosis factor ligand superfamily member 14 FNF-related apoptosis-inducing ligand FNF-related activation-induced cytokine		ste ste ste ste	·	2.67 2.92 2.2 2.44 3.79 7.72 0.84 4.23 6.3 4.82 7.77 4.87	2.89 3.09 1.98 2.57 3.9 8.01 0.89 4.02 6.72 4.71 8.17 5.52	NA

Table 18: Women table for biomarkers significance, disease Imnsonia

	Paracetamol	Ibux 200 mg	oa,	Ventolin	nizir	Symbicort	Ibux 400 mg	Seretide	Roaccutan	Concerta
Protein	Para	Ibux	Zyrtec	Vent	Cetrizin	Sym	Ibux	Sere	Roa	Con
Adenosine Deaminase				**			****	****		****
Artemin Axin-1				w w			~~~	****		****
Brain-derived neurotrophic factor										
Beta-nerve growth factor										
Caspase-8										
Eotaxin										
C-C motif chemokine 19 C-C motif chemokine 20										
C-C motif chemokine 23										
C-C motif chemokine 25										
C-C motif chemokine 28										
C-C motif chemokine 3										****
C-C motif chemokine 4 Natural killer cell receptor 2B4										
CD40L receptor										
T-cell surface glycoprotein CD5										
T cell surface glycoprotein CD6 isoform										
CUB domain-containing protein 1										
Macrophage colony-stimulating factor 1										
Cystatin D Fractalkine										
C-X-C motif chemokine 1										
C-X-C motif chemokine 10										
C-X-C motif chemokine 11										
C-X-C motif chemokine 5										
C-X-C motif chemokine 6										
C-X-C motif chemokine 9 Delta and Notch-like epidermal growth factor-related receptor										
Eukaryotic translation initiation factor 4E-binding protein 1										
Protein S100-A12										
Fibroblast growth factor 19										
Fibroblast growth factor 21									w	
Fibroblast growth factor 23										
Fibroblast growth factor 5										
Fms-related tyrosine kinase 3 ligand Glial cell line-derived neurotrophic factor										
Hepatocyte growth factor										
Interferon gamma				****		****	****	****		****
Interleukin-10										
Interleukin-10 receptor subunit alpha								sk sk		
Interleukin-10 receptor subunit beta										
Interleukin-12 subunit beta							ale ale ale ale	ata ata ata ata	ale ale ale ale	ale ale ale ale
Interleukin-13 Interleukin-15 receptor subunit alpha							~~~	~~~	****	****
Interleukin-17A										
Interleukin-17C										
Interleukin-18										
Interleukin-18 receptor 1										
Interleukin-1 alpha							****			****
Interleukin-2 Interleukin-20	***	****	****	***	***	****	****	***	****	****
Interleukin-20 receptor subunit alpha			w					we we		****
Interleukin-22 receptor subunit alpha-1	***	***	****	****	****	****	****	****	****	****
Interleukin-24		*								****
Interleukin-2 receptor subunit beta			****		****	****	****		****	****
Interleukin-33		***	****	****		****		****	****	
Interleukin-4		*								
Interleukin-5 Interleukin-6										
Interleukin-7										
Interleukin-8										
Leukemia inhibitory factor		***		***	* *					****
Leukemia inhibitory factor receptor										
Monocyte chemotactic protein 1										
Monocyte chemotactic protein 2		ale.								
Monocyte chemotactic protein 3 Monocyte chemotactic protein 4										
Matrix metalloproteinase-1										
Matrix metalloproteinase-10										
Neurturin			**			****		****		****
Neurotrophin-3										
Osteoprotegerin										
Oncostatin-M Programmed cell death 1 ligand 1										
Stem cell factor										
SIR2-like protein 2										
Signaling lymphocytic activation molecule										
Sulfotransferase 1A1										
STAM-binding protein										
Transforming growth factor alpha										
Latency-associated peptide transforming growth factor beta-1							****			****
TNF-beta										
TNF-beta Tumor necrosis factor receptor superfamily member 9										
TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14										
Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine										
TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine Thymic stromal lymphopoietin			ste ste ste ste	ste ste ste ste		ste ste ste ste		ste ste ste ste	ske ske ske ske	ste ste ste ste
TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine			ste ste ste ste	ste ste ste ste		*****		ste ste ste ste	ste ste ste ste	***

 Table 19: Significant biomarkers for medicines and men, addjusted for Bonferroni

Destric	Paracetamol	Microgynon	lbux 200 mg	Loette	Ventolin	Zyrtec	bux 400 mg	Cetrizin	Mercilon	Yasmin	Cerazette	Imigran	Yasminelle	Hutide	Symbicort	Livostin	lbux 600 mg	Depo-provera	Bricanyl
Protein Adenosine Deaminase		2	#	1	>	Z	#	O	2	×	O	4	25	压	o,	22	#	Ω	æ
Artemin									***	***			***		***		***		***
Axin-1																			
Brain-derived neurotrophic factor																			
Beta-nerve growth factor Caspase-8				w															
Eotaxin		***						w											
C-C motif chemokine 19																			
C-C motif chemokine 20																			
C-C motif chemokine 23				w w w															
C-C motif chemokine 25																			
C-C motif chemokine 28																			
C-C motif chemokine 3 C-C motif chemokine 4																			
Natural killer cell receptor 2B4																			
CD40L receptor																			
T-cell surface glycoprotein CD5																			
T cell surface glycoprotein CD6 isoform		*																	
CUB domain-containing protein 1																			
Macrophage colony-stimulating factor 1		***																	
Cystatin D Fractalkine																			
C-X-C motif chemokine 1																			
C-X-C motif chemokine 10																			
C-X-C motif chemokine 11																			
C-X-C motif chemokine 5																			
C-X-C motif chemokine 6		**																	
C-X-C motif chemokine 9																			
Delta and Notch-like epidermal growth factor-related receptor Eukaryotic translation initiation factor 4E-binding protein 1																			
Eukaryotic translation initiation factor 4E-binding protein 1 Protein S100-A12																			
Fibroblast growth factor 19		***																	
Fibroblast growth factor 21																			
Fibroblast growth factor 23				***	**				**				***						
Fibroblast growth factor 5		ŵ																	
Fms-related tyrosine kinase 3 ligand																			
Glial cell line-derived neurotrophic factor	sk sk	***		***					*	***			**						
Hepatocyte growth factor				***					****	****	***	****	****			****	****	****	***
Interferon gamma Interleukin-10																			
Interleukin-10 receptor subunit alpha																			
Interleukin-10 receptor subunit beta																			
Interleukin-12 subunit beta																			
Interleukin-13									***	***		***	***			***		***	***
Interleukin-15 receptor subunit alpha																			
Interleukin-17A																			
Interleukin-17C Interleukin-18																			
Interleukin-18 Interleukin-18 receptor 1		*																	
Interleukin-1 alpha																***			
Interleukin-2	***		***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	who who who
Interleukin-20																***			
Interleukin-20 receptor subunit alpha													w					ŵ	
Interleukin-22 receptor subunit alpha-1		***	***	***	***	****		***	***	***	***	***	***	***	***	***	****	***	***
Interleukin-24					***				***		***		***	***	***	***	****	***	skr skr skr s
Interleukin-2 receptor subunit beta					***				***	***		***		***	***	distribution.	***	***	***
Interleukin-33 Interleukin-4					****				***	***	**		нння	****	***	***	***	***	***
Interleukin-5				w															
Interleukin-6																			
Interleukin-7																			
Interleukin-8																			
Leukemia inhibitory factor										***			***			***			***
Leukemia inhibitory factor receptor		***		sk sk															
Monocyte chemotactic protein 1																			
Monocyte chemotactic protein 2 Monocyte chemotactic protein 3																			
Monocyte chemotactic protein 4		***																	
Matrix metalloproteinase-1																			
Matrix metalloproteinase-10																			
Neurturin										***		***	***				****		
Neurotrophin-3																			
Osteoprotegerin																			
Oncostatin-M																			
Programmed cell death 1 ligand 1		***		also de															
Stem cell factor SIR2-like protein 2	"	***		**															
Signaling lymphocytic activation molecule																			w
Sulfotransferase 1A1																			
STAM-binding protein																			
Transforming growth factor alpha																			
Latency-associated peptide transforming growth factor beta-1																**			
Tumor necrosis factor																			
TNF-beta																			
Tumor necrosis factor receptor superfamily member 9																			
Tumor necrosis factor ligand superfamily member 14		de de		**															
TNF-related apoptosis-inducing ligand		**		w w															
TNF-related activation-induced cytokine Thymic stromal lymphopoietin		-					***	***	***	***	***				***	***	****	***	***
	1																		

Tumor necrosis factor Urokinase-type plasminogen activator		***		sk sk															

Table 20: Significant biomarkers for medicines and women, addjusted for Bonferroni

No correction	Benjamini	Bonferroni	Avg Medicated	Avg Healthy	Image
			4.72	4.74	NA
			0.15	0.08	NA
**			1	1.12	NA
			4.11	4.11	NA
			1.94	1.89	NA
			1.31	1.4	NA
*			7.72	7.85	NA
			9.44	9.42	NA
			6.07	6.05	NA
			9.39	9.31	NA
					NA
*					NA
					NA
w			8.98	9.16	NA
			7.37	7.21	NA
			7.27	7.29	NA
*			5.41	5.68	NA
			5.08	5.1	NA
			7.82	8.01	NA
			3.12	3.14	NA
			2.58	2.72	NA
			1.44	1.49	NA
			8.84	8.81	NA
***	w w	w w			NA
					NA
*					NA
*					NA
					NA
* * * *	***	***			NA
			0.88	0.87	NA
			1	0.99	NA
			2.3	2.26	NA
			1.38	1.41	NA
			0.9	0.9	NA
			1.44	1.5	NA
			1.28	1.19	NA
					NA
			2.91	2.88	NA
			5.27	5.22	NA
					NA
					NA
ww					NA
					NA
					NA NA
					NA
1					NA
			2.22	2.1	NA
*			9.79	9.69	NA
			4.8	4.76	NA
			4.91	4.85	NA
**	str str	w	9.06	9.26	NA
			2.8	2.93	NA
			3.09	3.1	NA
*			1.85	2.07	NA
ww			2.49		NA
					NA
					NA
					NA
			0.88 4.01	0.89 4	NA NA
			6.7	6.69	NA
			4.7	4.69	NA
			8.22	8.24	NA
ste			5.42	5.65	NA
w			5.42 1.09	5.65 1.1	NA NA
ster ster ster ste	ste		5.42	5.65	NA
				*** 1 1 4.11 1.94 1.31 ** 7.72 9.44 6.07 9.39 6.09 1.2 2.17 6.48 6.33 9.21 4.02 3.62 2.42 ** 7.93 6.77 6.49 8.83 9.68 7.26 12.56 ** 8.98 7.37 7.27 * 5.41 5.08 7.82 3.12 2.58 1.44 8.84 8.84 8.84 8.84 8.84 8.84 8.8	*** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** **

 Table 21: Women table for biomarkers significance, medicine Paracetamol

Protein	No correction	Benjamini	Bonferroni	Avg Medicated	Avg Healthy	Image
Adenosine Deaminase				4.7	4.74	NA
Artemin				0.16	0.08	NA
Axin-1				1.1	1.12	NA
Brain-derived neurotrophic factor				3.89	4.11	NA
Beta-nerve growth factor	***	skr skr		2.05	1.89	NA
Caspase-8				1.44	1.4	NA
Eotaxin	***	* * * *	* * * *	7.57	7.85	NA
C-C motif chemokine 19				9.33	9.42	NA
C-C motif chemokine 20				6.03	6.05	NA
C-C motif chemokine 23	w w	w		9.53	9.31	NA
C-C motif chemokine 25				5.92	6.07	NA
C-C motif chemokine 28	w	ŵ		1.47	1.27	NA
C-C motif chemokine 3				2.31	2.2	NA
C-C motif chemokine 4				6.45	6.47	NA
Natural killer cell receptor 2B4				6.28	6.33	NA
CD40L receptor				9.22	9.17	NA
T-cell surface glycoprotein CD5				3.94	4	NA
T cell surface glycoprotein CD6 isoform	***	**	w	3.39	3.64	NA
CUB domain-containing protein 1				2.38	2.43	NA
Macrophage colony-stimulating factor 1	www.w	de de de de	***	8.03	7.86	NA
Cystatin D				6.73	6.77	NA
Fractalkine				6.51		NA NA
C-X-C motif chemokine 1				8.94	6.52 8.9	NA NA
C-X-C motif chemokine 10				9.73	9.6	NA
C-X-C motif chemokine 11				7.33	7.3	NA
C-X-C motif chemokine 5	l			12.5	12.58	NA
C-X-C motif chemokine 6	***	str str str	skr skr	8.82	9.16	NA
C-X-C motif chemokine 9	*			7.42	7.21	NA
Delta and Notch-like epidermal growth factor-related receptor	w w	str		7.22	7.29	NA
Eukaryotic translation initiation factor 4E-binding protein 1	***	ste ste ste	w	5.16	5.68	NA
Protein S100-A12				5.06	5.1	NA
Fibroblast growth factor 19	she she she	str str str str	ste ste ste	7.39	8.01	NA
Fibroblast growth factor 21				3.29	3.14	NA
Fibroblast growth factor 23				2.57	2.72	NA
Fibroblast growth factor 5	***	skr skr	w	1.33	1.49	NA
Fms-related tyrosine kinase 3 ligand				8.86	8.81	NA
Glial cell line-derived neurotrophic factor	***	***	***	1.84	2.21	NA
Hepatocyte growth factor				7.99	7.93	NA
Interferon gamma				1	1.02	NA
Interleukin-10				4.17	4.08	NA
Interleukin-10 receptor subunit alpha				1.48	1.39	NA
Interleukin-10 receptor subunit beta				7.5	7.44	NA
Interleukin-12 subunit beta				4.88	4.84	NA
Interleukin-13				1.73	1.63	NA
Interleukin-15 Interleukin-15 receptor subunit alpha	w			1.17	1.24	NA
Interleukin-17A				0.88	0.84	NA
Interleukin-17A				1.61	1.65	NA
Interleukin-17C				7.07	6.96	NA
	the the the	str str	w			
Interleukin-18 receptor 1			-	7.68	7.46	NA
Interleukin-1 alpha				1.74	1.84	NA
Interleukin-2				1.22	1.23	NA
Interleukin-20				0.82	0.87	NA
Interleukin-20 receptor subunit alpha				0.95	0.99	NA
Interleukin-22 receptor subunit alpha-1	***	***	***	2.26	2.26	NA
Interleukin-24				1.4	1.41	NA
Interleukin-2 receptor subunit beta				0.87	0.9	NA
Interleukin-33				1.43	1.5	NA
Interleukin-4				1.22	1.19	NA
Interleukin-5				2.19	2.15	NA
Interleukin-6				2.92	2.88	NA
Interleukin-7				5.22	5.22	NA
Interleukin-8				7.54	7.52	NA
Leukemia inhibitory factor				0.86	0.92	NA
Leukemia inhibitory factor receptor	ste ste ste ste	ste ste ste ste	ste ste ste ste	3.22	3.46	NA
Monocyte chemotactic protein 1				9.84	9.81	NA
Monocyte chemotactic protein 2				9.97	10.06	NA
Monocyte chemotactic protein 3				2.2	2.33	NA
Monocyte chemotactic protein 4	***	ste ste ste ste	ste ste ste	3.16	3.55	NA
Matrix metalloproteinase-1				6.92	6.96	NA
Matrix metalloproteinase-10				8.96	8.96	NA
Neurturin	w w	skr		1.15	1.24	NA
				2.11	2.1	
Neurotrophin 3						NA NA
Neurotrophin-3				9.73 5.02	9.69	NA NA
Osteoprotegerin	**			2.117	4.76	NA
Osteoprotegerin Oncostatin-M	ste ste	w			1.8E	
Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1		*	alor alor alor	4.89	4.85	NA
Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor	ster ster ster ster ster ster	* * * * * *	***	4.89 8.79	9.26	NA
Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2	ste ste ste	如如如如	ste ste ste	4.89 8.79 2.94	9.26 2.93	NA NA
Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule		ste ste ste ste	sterate sterate	4.89 8.79 2.94 2.96	9.26 2.93 3.1	NA NA NA
Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1	ste ste ste	ster ster ster ster	ste ste ste ste	4.89 8.79 2.94 2.96 2.19	9.26 2.93 3.1 2.07	NA NA NA
Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein	ste ste ste	*************************************	nde nde nde	4.89 8.79 2.94 2.96 2.19 2.58	9.26 2.93 3.1 2.07 2.63	NA NA NA NA
Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha	ste ste ste	ster ster ster ster	aller aller aller aller	4.89 8.79 2.94 2.96 2.19 2.58 3.99	9.26 2.93 3.1 2.07 2.63 3.87	NA NA NA NA NA
Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein	ste ste ste	W. We also also	水水水水	4.89 8.79 2.94 2.96 2.19 2.58	9.26 2.93 3.1 2.07 2.63	NA NA NA NA
Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha	ste ste ste	* ****	放放放	4.89 8.79 2.94 2.96 2.19 2.58 3.99	9.26 2.93 3.1 2.07 2.63 3.87	NA NA NA NA NA
Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulforransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1	ste ste ste	**	We also also de	4.89 8.79 2.94 2.96 2.19 2.58 3.99 7.97	9.26 2.93 3.1 2.07 2.63 3.87 8.01	NA NA NA NA NA NA
Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfortransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta	ste ste ste	*	also date also	4.89 8.79 2.94 2.96 2.19 2.58 3.99 7.97	9.26 2.93 3.1 2.07 2.63 3.87 8.01 0.89	NA NA NA NA NA NA NA NA
Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9	ste ste ste	*	****	4.89 8.79 2.94 2.96 2.19 2.58 3.99 7.97 1.02 3.91	9.26 2.93 3.1 2.07 2.63 3.87 8.01 0.89	NA
Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14	ste ste ste	**	· · · · · · · · · · · · · · · · · · ·	4.89 8.79 2.94 2.96 2.19 2.58 3.99 7.97 1.02 3.91 6.61 4.82	9.26 2.93 3.1 2.07 2.63 3.87 8.01 0.89 4 6.69 4.69	NA
Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfortansferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand	******			4.89 8.79 2.94 2.96 2.19 2.58 3.99 7.97 1.02 3.91 6.61 4.82 8.02	9.26 2.93 3.1 2.07 2.63 3.87 8.01 0.89 4 6.69 4.69 8.24	NA N
Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine	ent ent ent ent ent	***	жw	4.89 8.79 2.94 2.96 2.19 2.58 3.99 7.97 1.02 3.91 6.61 4.82 8.02 5.33	9.26 2.93 3.1 2.07 2.63 3.87 8.01 0.89 4 6.69 4.69 8.24 5.65	NA N
Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine Thymic stromal lymphopoietin	the the first the	***	de Wi	4.89 8.79 2.94 2.96 2.19 2.58 3.99 7.97 1.02 3.91 6.61 4.82 8.02 5.33 1.09	9.26 2.93 3.1 2.07 2.63 3.87 8.01 0.89 4 6.69 4.69 8.24 5.65 1.1	NA N
Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine	ent ent ent ent ent	***	жw	4.89 8.79 2.94 2.96 2.19 2.58 3.99 7.97 1.02 3.91 6.61 4.82 8.02 5.33	9.26 2.93 3.1 2.07 2.63 3.87 8.01 0.89 4 6.69 4.69 8.24 5.65	NA N

 Table 22: Women table for biomarkers significance, medicine Microgynon

Protein	No correction	Benjamini	Bonferroni	Avg Medicated	Avg Healthy	Ima
denosine Deaminase rtemin				4.74	4.74	NA
rtemin xin-1				0.14	0.08	NA
rain-derived neurotrophic factor				1.05 4.24	1.12 4.11	NA NA
eta-nerve growth factor				1.97	1.89	NA
aspase-8				1.45	1.4	NA
otaxin	skr			7.69	7.85	NA
-C motif chemokine 19				9.19	9.42	NA
-C motif chemokine 20				6.23	6.05	NA
-C motif chemokine 23				9.37	9.31	NA
-C motif chemokine 25				6.12	6.07	NA
-C motif chemokine 28				1.21	1.27	NA
-C motif chemokine 3				2.21	2.2	NA
-C motif chemokine 4				6.46	6.47	NA
fatural killer cell receptor 2B4				6.29	6.33	NA
D40L receptor				9.2	9.17	NA
-cell surface glycoprotein CD5				3.99	4	NA
cell surface glycoprotein CD6 isoform				3.52	3.64	NA
UB domain-containing protein 1				2.45	2.43	NA
Iacrophage colony-stimulating factor 1				7.93	7.86	NA
ystatin D				6.82	6.77	NA
ractalkine				6.57	6.52	NA
-X-C motif chemokine 1				8.9	8.9	NA
-X-C motif chemokine 10				9.65	9.6	NA
-X-C motif chemokine 11				7.17	7.3	NA
-X-C motif chemokine 5				12.55	12.58	NA
-X-C motif chemokine 6	w			8.95	9.16	NA
-X-C motif chemokine 9				7.22	7.21	NA
elta and Notch-like epidermal growth factor-related receptor				7.23	7.29	NA
ukaryotic translation initiation factor 4E-binding protein 1				5.47	5.68	NA
rotein S100-A12				5.15	5.1	NA
ibroblast growth factor 19				7.78	8.01	NA
ibroblast growth factor 21				2.94	3.14	NA
ibroblast growth factor 23				2.58	2.72	NA
ibroblast growth factor 5				1.43	1.49	NA
ms-related tyrosine kinase 3 ligand				8.84	8.81	NA
dial cell line-derived neurotrophic factor	w w	w		2.03	2.21	NA
depatocyte growth factor				7.97	7.93	NA
nterferon gamma				1.02	1.02	NA
nterleukin-10				4.07	4.08	NA
nterleukin-10 receptor subunit alpha				1.54	1.39	NA
nterleukin-10 receptor subunit alpha nterleukin-10 receptor subunit beta				7.48	7.44	NA
nterleukin-10 receptor subunit beta				4.94	4.84	NA
nterleukin-13				1.61	1.63	NA
nterleukin-15 nterleukin-15 receptor subunit alpha				1.22	1.24	NA
nterleukin-17A	w			0.71	0.84	NA
nterleukin-17A				1.69	1.65	NA
nterleukin-17C				7.1	6.96	NA
nterleukin-18 receptor 1	ste ste			7.69	7.46	NA
-						
nterleukin-1 alpha	***	***	ske ske ske ske	1.86	1.84	NA
nterleukin-2	***	***	www	1.22	1.23	NA
nterleukin-20				0.86	0.87	NA
nterleukin-20 receptor subunit alpha	ste ste ste ste	***	***	0.95	0.99	NA
nterleukin-22 receptor subunit alpha-1	***	***	www	2.26	2.26	NA
nterleukin-24				1.4	1.41	NA
nterleukin-2 receptor subunit beta				0.88	0.9	NA
nterleukin-33				1.45	1.5	NA
nterleukin-4				1.29	1.19	NA
nterleukin-5				2.44	2.15	NA
nterleukin-6				2.9	2.88	NA
nterleukin-7				5.21	5.22	NA
nterleukin-8				7.56	7.52	NA
eukemia inhibitory factor				0.84	0.92	NA
eukemia inhibitory factor receptor				3.39	3.46	NA
Ionocyte chemotactic protein 1				9.79	9.81	NA
Ionocyte chemotactic protein 2				10.08	10.06	NA
Ionocyte chemotactic protein 3				2.3	2.33	NA
Ionocyte chemotactic protein 4	w			3.35	3.55	NA
fatrix metalloproteinase-1				7.03	6.96	NA
fatrix metalloproteinase-10				9	8.96	NA
eurturin	str.			1.15	1.24	NA
feurotrophin-3				2.22	2.1	NA
Steoprotegerin				9.74	9.69	NA
encostatin-M				4.87	4.76	NA
rogrammed cell death 1 ligand 1				4.94	4.85	NA
tem cell factor	str str			9.02	9.26	NA
IR2-like protein 2				2.9	2.93	NA
				3.01	3.1	NA
ignaling lymphocytic activation molecule				2.04	2.07	NA
ignaling lymphocytic activation molecule ulfotransferase 1A1				2.55	2.63	NA
					3.87	NA
ulfotransferase 1A1				3.94		NA
ulfotransferase 1A1 TAM-binding protein				3.94 8.04	8.01	
ulfotransferase 1A1 TAM-binding protein ransforming growth factor alpha					8.01 0.89	NA
ulfotransferase 1A1 TAM-binding protein ransforming growth factor alpha atency-associated peptide transforming growth factor beta-1				8.04		NA NA
ulfotransferase 1A1 TAM-binding protein ransforming growth factor alpha atency-associated peptide transforming growth factor beta-1 umor necrosis factor NF-beta				8.04 0.91	0.89	
ulfotransferase 1A1 TAM-binding protein ransforming growth factor alpha atency-associated peptide transforming growth factor beta-1 umor necrosis factor NF-beta umor necrosis factor receptor superfamily member 9				8.04 0.91 4.05 6.71	0.89 4 6.69	NA NA
ulfotransferase 1A1 TAM-binding protein ransforming growth factor alpha atency-associated peptide transforming growth factor beta-1 umor necrosis factor NF-beta umor necrosis factor receptor superfamily member 9 umor necrosis factor ligand superfamily member 14				8.04 0.91 4.05 6.71 4.82	0.89 4 6.69 4.69	NA NA NA
ulfotransferase 1A1 TAM-binding protein ransforming growth factor alpha atency-associated peptide transforming growth factor beta-1 tumor necrosis factor NF-beta tumor necrosis factor receptor superfamily member 9 tumor necrosis factor ligand superfamily member 14 NF-related apoptosis-inducing ligand				8.04 0.91 4.05 6.71 4.82 8.18	0.89 4 6.69 4.69 8.24	NA NA NA
ulforransferase 1A1 TAM-binding protein ransforming growth factor alpha atency-associated peptide transforming growth factor beta-1 umor necrosis factor NF-beta umor necrosis factor receptor superfamily member 9 umor necrosis factor ligand superfamily member 14 NF-related apoptosis-inducing ligand NF-related activation-induced cytokine				8.04 0.91 4.05 6.71 4.82 8.18 5.5	0.89 4 6.69 4.69 8.24 5.65	NA NA NA NA
ulforransferase 1A1 TAM-binding protein ransforming growth factor alpha atency-associated peptide transforming growth factor beta-1 umor necrosis factor NF-beta umor necrosis factor receptor superfamily member 9 umor necrosis factor ligand superfamily member 14 NF-related apoptosis-inducing ligand NF-related activation-induced cytokine hymic stromal lymphopoietin				8.04 0.91 4.05 6.71 4.82 8.18 5.5	0.89 4 6.69 4.69 8.24 5.65	NA NA NA NA NA
ulforransferase 1A1 TAM-binding protein ransforming growth factor alpha atency-associated peptide transforming growth factor beta-1 umor necrosis factor NF-beta umor necrosis factor receptor superfamily member 9 umor necrosis factor ligand superfamily member 14 NF-related apoptosis-inducing ligand NF-related activation-induced cytokine	*			8.04 0.91 4.05 6.71 4.82 8.18 5.5	0.89 4 6.69 4.69 8.24 5.65	NA NA NA NA

Table 23: Women table for biomarkers significance, medicine Ibux 200 mg

Protein	No correction	Benjamini	Bonferroni	Avg Medicated	Avg Healthy	Imag
Adenosine Deaminase				4.81	4.74	NA
Artemin				0.07	0.08	NA
Axin-1				1.12	1.12	NA
Brain-derived neurotrophic factor	skr skr skr	str str	skr	2.8	4.11	NA
Beta-nerve growth factor Caspase-8			-	2.09 1.38	1.89 1.4	NA NA
Eotaxin	ww	w		7.61	7.85	NA
C-C motif chemokine 19				9.35	9.42	NA
C-C motif chemokine 20				6.14	6.05	NA
C-C motif chemokine 23	***	***	***	9.7	9.31	NA
C-C motif chemokine 25				6.16	6.07	NA
C-C motif chemokine 28				1.18	1.27	NA
C-C motif chemokine 3				2.12	2.2	NA
C-C motif chemokine 4				6.33	6.47	NA
Natural killer cell receptor 2B4	w w	w		6.18	6.33	NA
CD40L receptor				9.24	9.17	NA
T-cell surface glycoprotein CD5				4.01	4	NA
T cell surface glycoprotein CD6 isoform	w			3.44	3.64	NA
CUB domain-containing protein 1	w			2.26	2.43	NA
Macrophage colony-stimulating factor 1	**	w		8.02	7.86	NA
Cystatin D				6.73	6.77	NA
Fractalkine				6.62	6.52	NA
C-X-C motif chemokine 1				8.78	8.9	NA
C-X-C motif chemokine 10				9.46	9.6	NA
C-X-C motif chemokine 11				7.16	7.3	NA
C-X-C motif chemokine 5				12.39	12.58	NA
C-X-C motif chemokine 6	ste ste	str str		8.77	9.16	NA
C-X-C motif chemokine 9				7.35	7.21	NA
Delta and Notch-like epidermal growth factor-related receptor				7.22	7.29	NA
Eukaryotic translation initiation factor 4E-binding protein 1				5.2	5.68	NA
Protein S100-A12				4.93	5.1	NA
Fibroblast growth factor 19	**	w		7.48	8.01	NA
Fibroblast growth factor 21		attended to	ate ate ate	2.98	3.14	NA
Fibroblast growth factor 23	***	***	ste ste ste	2.27	2.72	NA
Fibroblast growth factor 5	**	**		1.31	1.49	NA
Fms-related tyrosine kinase 3 ligand				8.91	8.81	NA
Glial cell line-derived neurotrophic factor	***	***	***	1.78	2.21	NA
Hepatocyte growth factor	***	ste ste ste ste	de de de de	7.89	7.93	NA
Interferon gamma	www	***	www	0.99	1.02	NA
Interleukin-10				4.02	4.08	NA
Interleukin-10 receptor subunit alpha				1.34	1.39	NA
Interleukin-10 receptor subunit beta	*			7.59	7.44	NA
Interleukin-12 subunit beta				4.92	4.84	NA
Interleukin-13	*			1.56	1.63	NA
Interleukin-15 receptor subunit alpha	*			1.13	1.24	NA
Interleukin-17A				0.77	0.84	NA
Interleukin-17C				1.63	1.65	NA
Interleukin-18				7.09	6.96	NA
Interleukin-18 receptor 1				7.59	7.46	NA
Interleukin-1 alpha				1.79	1.84	NA
Interleukin-2	***	***	***	1.22	1.23	NA
Interleukin-20	*	w		0.79	0.87	NA
Interleukin-20 receptor subunit alpha	de de de de	***	also also also also	0.96	0.99	NA
Interleukin-22 receptor subunit alpha-1	***	***	***	2.26	2.26	NA
Interleukin-24				1.38	1.41	NA
Interleukin-2 receptor subunit beta				0.88	0.9	NA
Interleukin-33				1.44	1.5	NA
Interleukin-4				1.28	1.19	NA
Interleukin-5	***	str str	w	1.81	2.15	NA
Interleukin-6				2.74	2.88	NA
Interleukin-7				5.15	5.22	NA
Interleukin-8				7.51	7.52	NA
Leukemia inhibitory factor	ste ste ste ste	ste ste ste	ata ata	0.85	0.92	NA
Leukemia inhibitory factor receptor	~~~	~ ~ ~	~ ~	3.26	3.46	NA
Monocyte chemotactic protein 1				9.76	9.81	NA
Monocyte chemotactic protein 2				9.86	10.06	NA
Monocyte chemotactic protein 3	W etc. de			2.14	2.33	NA
Monocyte chemotactic protein 4	**	w		3.22	3.55	NA
	I			6.98	6.96	NA
					8.96	NA
Matrix metalloproteinase-10	w w			8.67	1.04	NA
Matrix metalloproteinase-10 Neurturin	ste ste			1.16	1.24	
Matrix metalloproteinase-10 Neurturin Neurotrophin-3				1.16 2.04	2.1	NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin				1.16 2.04 9.7	2.1 9.69	NA NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M				1.16 2.04 9.7 4.75	2.1 9.69 4.76	NA NA NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1	sk:		**	1.16 2.04 9.7 4.75 4.95	2.1 9.69 4.76 4.85	NA NA NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor		ster ster ster	ste ste	1.16 2.04 9.7 4.75 4.95 9.03	2.1 9.69 4.76 4.85 9.26	NA NA NA NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2	sic six six six six	W W W	ster ste	1.16 2.04 9.7 4.75 4.95 9.03 3.04	2.1 9.69 4.76 4.85 9.26 2.93	NA NA NA NA NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule	sk:	******	**	1.16 2.04 9.7 4.75 4.95 9.03 3.04 2.88	2.1 9.69 4.76 4.85 9.26 2.93 3.1	NA NA NA NA NA NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1	sic six six six six	W W W	w.w	1.16 2.04 9.7 4.75 4.95 9.03 3.04 2.88 2.06	2.1 9.69 4.76 4.85 9.26 2.93 3.1 2.07	NA NA NA NA NA NA NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein	sic six six six six	site site site	省中	1.16 2.04 9.7 4.75 9.03 3.04 2.88 2.06 2.63	2.1 9.69 4.76 4.85 9.26 2.93 3.1 2.07 2.63	NA NA NA NA NA NA NA NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha	sic six six six six	de de de	de de	1.16 2.04 9.7 4.75 4.95 9.03 3.04 2.88 2.06 2.63 3.85	2.1 9.69 4.76 4.85 9.26 2.93 3.1 2.07 2.63 3.87	NA NA NA NA NA NA NA NA NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfortansferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1	** ****** ****	***	**	1.16 2.04 9.7 4.75 4.95 9.03 3.04 2.88 2.06 2.63 3.85 7.91	2.1 9.69 4.76 4.85 9.26 2.93 3.1 2.07 2.63 3.87 8.01	NA
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1	sic six six six six	***	**	1.16 2.04 9.7 4.75 4.95 9.03 3.04 2.88 2.06 2.63 3.85 7.91	2.1 9.69 4.76 4.85 9.26 2.93 3.1 2.07 2.63 3.87 8.01 0.89	NA N
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor	** ****** ****	sk sk sk sk	W W	1.16 2.04 9.7 4.75 9.03 3.04 2.88 2.06 2.63 3.85 7.91 0.84 3.96	2.1 9.69 4.76 4.85 9.26 2.93 3.1 2.07 2.63 3.87 8.01 0.89	NA N
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TINF-beta Tumor necrosis factor receptor superfamily member 9	** ****** ****	de de de	ww.	1.16 2.04 9.7 4.75 4.95 9.03 3.04 2.88 2.06 2.63 3.85 7.91 0.84 3.96 6.62	2.1 9.69 4.76 4.85 9.26 2.93 3.1 2.07 2.63 3.87 8.01 0.89 4 6.69	NA N
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulforransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TINF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 9	** ****** ***** ****	w w		1.16 2.04 9.7 4.75 4.95 9.03 3.04 2.88 2.06 2.63 3.85 7.91 0.84 3.96 6.62 4.85	2.1 9.69 4.76 4.85 9.26 2.93 3.1 2.07 2.63 3.87 8.01 0.89 4 6.69 4.69	NA N
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfortansferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand	the state of the s	de de de	**	1.16 2.04 9.7 4.75 4.95 9.03 3.04 2.88 2.06 2.63 3.85 7.91 0.84 3.96 6.62 4.85 7.99	2.1 9.69 4.76 4.85 9.26 2.93 3.1 2.07 2.63 3.87 8.01 0.89 4 6.69 4.69 8.24	NA N
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor receptor superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine	** ****** ***** ****	w w		1.16 2.04 9.7 4.75 4.95 9.03 3.04 2.88 2.06 2.63 3.85 7.91 0.84 3.96 6.62 4.85 7.99 5.29	2.1 9.69 4.76 4.85 9.26 2.93 3.1 2.07 2.63 3.87 8.01 0.89 4 6.69 4.69 4.69 8.24 5.65	NA N
Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine Thymic stromal lymphopoietin		w w		1.16 2.04 9.7 4.75 4.95 9.03 3.04 2.88 2.06 2.63 3.85 7.91 0.84 3.96 6.62 4.85 7.99 5.29	2.1 9.69 4.76 4.85 9.26 2.93 3.1 2.07 2.63 3.87 8.01 0.89 4 6.69 4.69 8.24 5.65 1.1	NA N
Matrix metalloproteinase-1 Matrix metalloproteinase-10 Neurturin Neurotrophin-3 Osteoprotegerin Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine Thymic stromal lymphopoietin Tumor necrosis factor Urokinase-type plasminogen activator	the state of the s	w w		1.16 2.04 9.7 4.75 4.95 9.03 3.04 2.88 2.06 2.63 3.85 7.91 0.84 3.96 6.62 4.85 7.99 5.29	2.1 9.69 4.76 4.85 9.26 2.93 3.1 2.07 2.63 3.87 8.01 0.89 4 6.69 4.69 4.69 8.24 5.65	NA N

 Table 24: Women table for biomarkers significance, medicine Loette

Protein	No correction	Benjamini	Bonferroni	Avg Medicated	Avg Healthy	Imag
Adenosine Deaminase Artemin				4.82	4.74	NA NA
Artemin Axin-1				0.1 1.1	0.08 1.12	NA NA
Brain-derived neurotrophic factor				2.98	4.11	NA
Beta-nerve growth factor				1.96	1.89	NA
Caspase-8				1.32	1.4	NA
Eotaxin				7.77	7.85	NA
C-C motif chemokine 19				9.28	9.42	NA
C-C motif chemokine 20				6.35	6.05	NA
C-C motif chemokine 23	*			9.52	9.31	NA
C-C motif chemokine 25 C-C motif chemokine 28				6.06 1.14	6.07 1.27	NA NA
C-C motif chemokine 3				2.53	2.2	NA
C-C motif chemokine 4				6.71	6.47	NA
Natural killer cell receptor 2B4				6.35	6.33	NA
CD40L receptor				9.14	9.17	NA
T-cell surface glycoprotein CD5				4.08	4	NA
T cell surface glycoprotein CD6 isoform				3.66	3.64	NA
CUB domain-containing protein 1				2.43	2.43	NA
Macrophage colony-stimulating factor 1 Cystatin D				7.92 6.77	7.86 6.77	NA NA
Fractalkine				6.59	6.52	NA
C-X-C motif chemokine 1				8.84	8.9	NA
C-X-C motif chemokine 10				9.82	9.6	NA
C-X-C motif chemokine 11				7.41	7.3	NA
C-X-C motif chemokine 5				12.56	12.58	NA
C-X-C motif chemokine 6				9.04	9.16	NA
C-X-C motif chemokine 9 Delta and Notch like epidermal growth factor related recentor	*			7.42 7.18	7.21 7.29	NA NA
Delta and Notch-like epidermal growth factor-related receptor Eukaryotic translation initiation factor 4E-binding protein 1	"			5.27	5.68	NA
Protein S100-A12				5.09	5.08	NA
Fibroblast growth factor 19				8.13	8.01	NA
Fibroblast growth factor 21				3.25	3.14	NA
Fibroblast growth factor 23	ste ste ste ste	**	ste ste	2.34	2.72	NA
Fibroblast growth factor 5	str.			1.37	1.49	NA
Fms-related tyrosine kinase 3 ligand				8.82	8.81	NA
Glial cell line-derived neurotrophic factor				2.04	2.21	NA
Hepatocyte growth factor Interferon gamma				7.86 1	7.93 1.02	NA NA
Interleukin-10				4.52	4.08	NA
Interleukin-10 receptor subunit alpha				1.53	1.39	NA
Interleukin-10 receptor subunit beta				7.48	7.44	NA
Interleukin-12 subunit beta				4.9	4.84	NA
Interleukin-13				1.62	1.63	NA
Interleukin-15 receptor subunit alpha				1.24	1.24	NA
Interleukin-17A Interleukin-17C				0.78	0.84	NA
Interleukin-17C	w			1.67 7.23	1.65 6.96	NA NA
Interleukin-18 receptor 1				7.45	7.46	NA
Interleukin-1 alpha				1.8	1.84	NA
Interleukin-2	ste ste ste ste	she she she she	she she she she	1.22	1.23	NA
Interleukin-20	w			0.8	0.87	NA
Interleukin-20 receptor subunit alpha				0.93	0.99	NA
Interleukin-22 receptor subunit alpha-1	she she she she	de de de de	ste ste ste ste	2.26	2.26	NA
Interleukin-24	***	ste ste ste	* * * *	1.34 0.94	1.41 0.9	NA NA
Interleukin-2 receptor subunit beta Interleukin-33	ste ste ste ste	ste ste ste	ste ste ste ste	1.43	1.5	NA NA
Interleukin-4				1.18	1.19	NA
Interleukin-5				2.5	2.15	NA
Interleukin-6				2.81	2.88	NA
Interleukin-7				5.15	5.22	NA
Interleukin-8				7.53	7.52	NA
Leukemia inhibitory factor				0.89	0.92	NA
Leukemia inhibitory factor receptor	"			3.32	3.46	NA
Monocyte chemotactic protein 1 Monocyte chemotactic protein 2				9.99 10.15	9.81 10.06	NA NA
Monocyte chemotactic protein 2 Monocyte chemotactic protein 3				2.25	2.33	NA
Monocyte chemotactic protein 4				3.36	3.55	NA
Matrix metalloproteinase-1				7.11	6.96	NA
Matrix metalloproteinase-10				8.99	8.96	NA
Neurturin				1.42	1.24	NA
Neurotrophin-3				2.18	2.1	NA
Osteoprotegerin				9.64	9.69	NA
Oncostatin-M Programmed cell death 1 ligand 1				4.74 4.84	4.76 4.85	NA NA
Stem cell factor				9.12	9.26	NA
SIR2-like protein 2				2.84	2.93	NA
Signaling lymphocytic activation molecule				2.97	3.1	NA
Sulfotransferase 1A1				2.04	2.07	NA
STAM-binding protein				2.61	2.63	NA
Transforming growth factor alpha				3.83	3.87	NA
Latency-associated peptide transforming growth factor beta-1				7.92	8.01	NA
Tumor necrosis factor	*			0.85	0.89	NA
TNF-beta				3.88	4	NA
Tumor necrosis factor receptor superfamily member 9				6.72	6.69	NA NA
Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand				4.79 8.25	4.69 8.24	NA NA
TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine				5.52	8.24 5.65	NA NA
Thyric stromal lymphopoietin				1.09	1.1	NA
	T			8.83	8.96	NA
Tumor necrosis factor						
Tumor necrosis factor Urokinase-type plasminogen activator	*			9.79	9.96	NA

 Table 25: Women table for biomarkers significance, medicine Ventolin

Protein	No correction	Benjamini	Bonferroni	Avg Medicated	Avg Healthy	Imag
Adenosine Deaminase				4.71	4.74	NA
Artemin				0.05	0.08	NA
Axin-1				1.07 3.43	1.12	NA NA
Brain-derived neurotrophic factor Beta-nerve growth factor				1.9	4.11 1.89	NA
Caspase-8				1.42	1.4	NA
Eotaxin				7.75	7.85	NA
C-C motif chemokine 19				9.42	9.42	NA
C-C motif chemokine 20				6.13	6.05	NA
C-C motif chemokine 23				9.49	9.31	NA
C-C motif chemokine 25				6.17	6.07	NA
C-C motif chemokine 28				1.15	1.27	NA
C-C motif chemokine 3				2.13	2.2	NA
C-C motif chemokine 4				6.56	6.47	NA
Natural killer cell receptor 2B4				6.32	6.33	NA
CD40L receptor				9.08	9.17	NA
T-cell surface glycoprotein CD5				4	4	NA
T cell surface glycoprotein CD6 isoform				3.65	3.64	NA
CUB domain-containing protein 1				2.31	2.43	NA
Macrophage colony-stimulating factor 1				7.87	7.86	NA
Cystatin D				6.73	6.77	NA
Fractalkine				6.58	6.52	NA
C-X-C motif chemokine 1				8.71	8.9	NA
C-X-C motif chemokine 10				9.33	9.6	NA
C-X-C motif chemokine 11				7.07	7.3	NA
C-X-C motif chemokine 5	w			12.29	12.58	NA
C-X-C motif chemokine 6	w			8.9	9.16	NA
C-X-C motif chemokine 9				7.34	7.21	NA
Delta and Notch-like epidermal growth factor-related receptor				7.27	7.29	NA
Eukaryotic translation initiation factor 4E-binding protein 1				5.44	5.68	NA
Protein S100-A12				5.22	5.1	NA
Fibroblast growth factor 19				8.15	8.01	NA
Fibroblast growth factor 21				3.14	3.14	NA
Fibroblast growth factor 23				2.57	2.72	NA
Fibroblast growth factor 5				1.46	1.49	NA
Fms-related tyrosine kinase 3 ligand				8.87	8.81	NA
Glial cell line-derived neurotrophic factor				2.25	2.21	NA
Hepatocyte growth factor				7.96	7.93	NA
Interferon gamma				1	1.02	NA
Interleukin-10				4.43	4.08	NA
Interleukin-10 receptor subunit alpha				1.41	1.39	NA
Interleukin-10 receptor subunit beta				7.46	7.44	NA
Interleukin-12 subunit beta				4.78	4.84	NA
Interleukin-13				1.64	1.63	NA
Interleukin-15 receptor subunit alpha				1.25	1.24	NA
Interleukin-17A	w			0.62	0.84	NA
Interleukin-17C				1.59	1.65	NA
Interleukin-18				7.07	6.96	NA
Interleukin-18 receptor 1				7.36	7.46	NA
Interleukin-1 alpha				1.87	1.84	NA
Interleukin-2	ste ste ste	***	***	1.22	1.23	NA
Interleukin-20				0.83	0.87	NA
Interleukin-20 receptor subunit alpha				1.1	0.99	NA
Interleukin-22 receptor subunit alpha-1	str str str	she she she she	sk sk sk sk	2.26	2.26	NA
Interleukin-24				1.5	1.41	NA
Interleukin-2 receptor subunit beta				0.88	0.9	NA
Interleukin-33				1.43	1.5	NA
Interleukin-4				1.4	1.19	NA
Interleukin-5				2.42	2.15	NA
Interleukin-6	w			2.68	2.88	NA
Interleukin-7	w			5.01	5.22	NA
Interleukin-8				7.41	7.52	NA
Leukemia inhibitory factor	w			0.82	0.92	NA
Leukemia inhibitory factor receptor				3.41	3.46	NA
Monocyte chemotactic protein 1				9.68	9.81	NA
Monocyte chemotactic protein 2				10.09	10.06	NA
Monocyte chemotactic protein 3	w			2.08	2.33	NA
Monocyte chemotactic protein 4	ste ste			3.29	3.55	NA
Matrix metalloproteinase-1				7.04	6.96	NA
Matrix metalloproteinase-10				8.97	8.96	NA
Neurturin				1.41	1.24	NA
Neurotrophin-3				2.1	2.1	NA
Osteoprotegerin				9.63	9.69	NA
Oncostatin-M				4.96	4.76	NA
Programmed cell death 1 ligand 1				4.86	4.85	NA
Stem cell factor				9.27	9.26	NA
SIR2-like protein 2				2.78	2.93	NA
Signaling lymphocytic activation molecule				3.07	3.1	NA
Sulfotransferase 1A1				1.85	2.07	NA
STAM-binding protein				2.49	2.63	NA
Transforming growth factor alpha				4.09	3.87	NA
Latency-associated peptide transforming growth factor beta-1				8	8.01	NA
Tumor necrosis factor				0.88	0.89	NA
TNF-beta				3.96	4	NA
Tumor necrosis factor receptor superfamily member 9				6.66	6.69	NA
Tumor necrosis factor ligand superfamily member 14				4.82	4.69	NA
TNF-related apoptosis-inducing ligand				8.14	8.24	NA
	1			5.49	5.65	NA
TNF-related activation-induced cytokine	*			1.08	1.1	NA
TNF-related activation-induced cytokine Thymic stromal lymphopoietin	We .			1.08		NA NA
TNF-related activation-induced cytokine Thymic stromal lymphopoietin Tumor necrosis factor Urokinase-type plasminogen activator	W.				1.1	

 Table 26: Women table for biomarkers significance, medicine Zyrtec

Protein	No correction	Benjamini	Bonferroni	Avg Medicated	Avg Healthy	Ima
Adenosine Deaminase Artemin				4.64	4.74	NA
				0.33	0.08	NA
Axin-1 Brain-derived neurotrophic factor				1.08 4.55	1.12 4.11	NA NA
Beta-nerve growth factor				1.93	1.89	NA
Caspase-8				1.37	1.4	NA
Eotaxin				7.68	7.85	NA
C-C motif chemokine 19				9.61	9.42	NA
C-C motif chemokine 20				5.95	6.05	NA
C-C motif chemokine 23				9.34	9.31	NA
C-C motif chemokine 25				6.09	6.07	NA
C-C motif chemokine 28				1.25	1.27	NA
C-C motif chemokine 3				2.17	2.2	NA
C-C motif chemokine 4				6.43	6.47	NA
Natural killer cell receptor 2B4				6.26	6.33	NA
CD40L receptor				9.12	9.17	NA
T-cell surface glycoprotein CD5				3.95	4	NA
T cell surface glycoprotein CD3 T cell surface glycoprotein CD6 isoform				3.6	3.64	NA
CUB domain-containing protein 1				2.48	2.43	NA
Macrophage colony-stimulating factor 1				7.95	7.86	NA
Wacrophage colony-stimulating factor 1 Cystatin D	w			7.95 6.58	6.77	NA
Fractalkine	"			6.49		NA
					6.52	
C-X-C motif chemokine 1				8.9	8.9	NA
C-X-C motif chemokine 10				9.77	9.6	NA
C-X-C motif chemokine 11				7.34	7.3	NA
C-X-C motif chemokine 5				12.6	12.58	NA
C-X-C motif chemokine 6				8.99	9.16	NA
C-X-C motif chemokine 9				7.54	7.21	NA
Delta and Notch-like epidermal growth factor-related receptor				7.24	7.29	NA
Eukaryotic translation initiation factor 4E-binding protein 1				5.39	5.68	NA
Protein S100-A12				5.15	5.1	NA
Fibroblast growth factor 19				7.68	8.01	NA
Fibroblast growth factor 21				3.22	3.14	NA
Fibroblast growth factor 23				2.6	2.72	NA
Fibroblast growth factor 5				1.46	1.49	NA
Fms-related tyrosine kinase 3 ligand				8.78	8.81	NA
Glial cell line-derived neurotrophic factor				2.11	2.21	NA
Hepatocyte growth factor				7.96	7.93	NA
Interferon gamma				1.07	1.02	NA
Interleukin-10				4.25	4.08	NA
Interleukin-10 receptor subunit alpha				1.25	1.39	NA
Interleukin-10 receptor subunit beta				7.44	7.44	NA
Interleukin-12 subunit beta				4.8	4.84	NA
Interleukin-13				1.61	1.63	NA
Interleukin-15 receptor subunit alpha				1.22	1.24	NA
Interleukin-17A				0.84	0.84	NA
Interleukin-17C				1.68	1.65	NA
Interleukin-176				7.19	6.96	NA
Interleukin-16				7.52	7.46	NA
Interleukin-18 receptor 1 Interleukin-1 alpha						
•	she she she	ste ste ste ste	ste ste ste ste	1.81	1.84	NA
Interleukin-2	****	www	www	1.22	1.23	NA
Interleukin-20				0.91	0.87	NA
Interleukin-20 receptor subunit alpha				1.07	0.99	NA
Interleukin-22 receptor subunit alpha-1				2.4	2.26	NA
Interleukin-24				1.36	1.41	NA
Interleukin-2 receptor subunit beta				0.97	0.9	NA
Interleukin-33				1.5	1.5	NA
Interleukin-4				1.7	1.19	NA
Interleukin-5				2.18	2.15	NA
Interleukin-6				3.14	2.88	NA
Interleukin-7				5.19	5.22	NA
Interleukin-8				7.59	7.52	NA
Leukemia inhibitory factor				0.89	0.92	NA
Leukemia inhibitory factor receptor				3.37	3.46	NA
Monocyte chemotactic protein 1				9.75	9.81	NA
Monocyte chemotactic protein 2				9.81	10.06	NA
Monocyte chemotactic protein 3				2.18	2.33	NA
Monocyte chemotactic protein 4				3.37	3.55	NA
Matrix metalloproteinase-1				6.81	6.96	NA
Matrix metalloproteinase-10				9.11	8.96	NA
Neurturin				1.25	1.24	NA
Neurotrophin-3				1.99	2.1	NA
Osteoprotegerin				9.75	9.69	NA
Osteoprotegerin Oncostatin-M				9.75 4.86	9.69 4.76	NA NA
Oncostatin-M Programmed cell death 1 ligand 1					4.76	
				4.88		NA NA
Stem cell factor				9.15	9.26	
SIR2-like protein 2				2.8	2.93	NA
Signaling lymphocytic activation molecule	w			2.97	3.1	NA
Sulfotransferase 1A1				1.7	2.07	NA
STAM-binding protein				2.46	2.63	NA
Transforming growth factor alpha				3.83	3.87	NA
Latency-associated peptide transforming growth factor beta-1				7.98	8.01	NA
Tumor necrosis factor				0.89	0.89	NA
				4.08	4	NA
ΓNF-beta	1			6.65	6.69	NA
				4.77	4.69	NA
Tumor necrosis factor receptor superfamily member 9						NA
Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14				8.24	8.24	1471
Fumor necrosis factor receptor superfamily member 9 Fumor necrosis factor ligand superfamily member 14 FNF-related apoptosis-inducing ligand				8.24 5.41	8.24 5.65	NA
Fumor necrosis factor receptor superfamily member 9 Fumor necrosis factor ligand superfamily member 14 FNF-related apoptosis-inducing ligand FNF-related activation-induced cytokine	aler aler aler aler	ste ste ste	ste ste ste	5.41	5.65	
Fumor necrosis factor receptor superfamily member 9 Fumor necrosis factor ligand superfamily member 14 FNF-related apoptosis-inducing ligand FNF-related activation-induced cytokine Fhymic stromal lymphopoietin	ster ster ster	ster ster ster	***	5.41 1.08	5.65 1.1	NA
TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine Thymic stromal lymphopoietin Tumor necrosis factor Urokinase-type plasminogen activator		ste ste ste ste	the the the	5.41	5.65	NA NA

Table 27: Women table for biomarkers significance, medicine Ibux 400 mg

Protein	No correction	Benjamini	Bonferroni	Avg Medicated	Avg Healthy	Image
Adenosine Deaminase				4.72	4.74	NA
Artemin				0.14	0.08	NA
Axin-1				1.02	1.12	NA
Brain-derived neurotrophic factor				3.89	4.11	NA
Beta-nerve growth factor				1.98	1.89	NA
Caspase-8				1.4	1.4	NA
Eotaxin	ste ste ste	w w	w	7.58	7.85	NA
C-C motif chemokine 19				9.43	9.42	NA
C-C motif chemokine 20				5.88	6.05	NA
C-C motif chemokine 23				9.38	9.31	NA
C-C motif chemokine 25	w			5.87	6.07	NA
C-C motif chemokine 28	*			1.28	1.27	NA
C-C motif chemokine 3				2	2.2	NA
C-C motif chemokine 4	*			6.2	6.47	NA
Natural killer cell receptor 2B4				6.32	6.33	NA
CD40L receptor				9.1	9.17	NA
T-cell surface glycoprotein CD5				3.88	4	NA
T cell surface glycoprotein CD6 isoform				3.59	3.64	NA
CUB domain-containing protein 1				2.5	2.43	NA
Macrophage colony-stimulating factor 1				7.85	7.86	NA
Cystatin D				6.78	6.77	NA
Fractalkine				6.51	6.52	NA
C-X-C motif chemokine 1	w			8.67	8.9	NA
C-X-C motif chemokine 10				9.76	9.6	NA
C-X-C motif chemokine 11				7.28	7.3	NA
C-X-C motif chemokine 11 C-X-C motif chemokine 5						NA NA
				12.39	12.58	
C-X-C motif chemokine 6				8.91	9.16	NA
C-X-C motif chemokine 9				7.16	7.21	NA
Delta and Notch-like epidermal growth factor-related receptor				7.25	7.29	NA
Eukaryotic translation initiation factor 4E-binding protein 1				5.57	5.68	NA
Protein S100-A12				5.12	5.1	NA
Fibroblast growth factor 19				7.83	8.01	NA
Fibroblast growth factor 21				3.25	3.14	NA
Fibroblast growth factor 23				2.8	2.72	NA
Fibroblast growth factor 5				1.39	1.49	NA
Fms-related tyrosine kinase 3 ligand				8.89	8.81	NA
Glial cell line-derived neurotrophic factor				2.22	2.21	NA
Hepatocyte growth factor				7.8	7.93	NA
				1.05	1.02	NA
Interferon gamma						
Interleukin-10				4.34	4.08	NA
Interleukin-10 receptor subunit alpha				1.38	1.39	NA
Interleukin-10 receptor subunit beta				7.37	7.44	NA
Interleukin-12 subunit beta				4.86	4.84	NA
Interleukin-13				1.63	1.63	NA
Interleukin-15 receptor subunit alpha				1.19	1.24	NA
Interleukin-17A				0.79	0.84	NA
Interleukin-17C				1.56	1.65	NA
Interleukin-18				7.03	6.96	NA
Interleukin-18 receptor 1				7.58	7.46	NA
Interleukin-1 alpha				1.95	1.84	NA
Interleukin-2	***	***	***	1.22	1.23	NA
Interleukin-20				0.94	0.87	NA
Interleukin-20 receptor subunit alpha				0.92	0.99	NA
	***	ste ste ste ste	ste ste ste ste	2.26	2.26	NA
Interleukin-22 receptor subunit alpha-1						
Interleukin-24				1.48	1.41	NA
Interleukin-2 receptor subunit beta				0.87	0.9	NA
Interleukin-33				1.49	1.5	NA
Interleukin-4				1.4	1.19	NA
Interleukin-5				2.58	2.15	NA
Interleukin-6				3.16	2.88	NA
Interleukin-7				5.15	5.22	NA
Interleukin-8				7.48	7.52	NA
Leukemia inhibitory factor				0.88	0.92	NA
Leukemia inhibitory factor receptor				3.4	3.46	NA
Monocyte chemotactic protein 1	**			9.56	9.81	NA
Monocyte chemotactic protein 2				10.04	10.06	NA
Monocyte chemotactic protein 2 Monocyte chemotactic protein 3						
	w			2.25	2.33	NA
Monocyte chemotactic protein 4				3.29	3.55	NA
Matrix metalloproteinase-1				6.7	6.96	NA
Matrix metalloproteinase-10				9.05	8.96	NA
Neurturin				1.16	1.24	NA
Neurotrophin-3				2.08	2.1	NA
Osteoprotegerin				9.73	9.69	NA
Oncostatin-M				4.52	4.76	NA
Programmed cell death 1 ligand 1				4.83	4.85	NA
Stem cell factor				9.23	9.26	NA
SIR2-like protein 2				2.82	2.93	NA
Signaling lymphocytic activation molecule						
				2.95	3.1	NA
Sulfotransferase 1A1				1.86	2.07	NA
STAM-binding protein				2.54	2.63	NA
Transforming growth factor alpha				3.72	3.87	NA
Latency-associated peptide transforming growth factor beta-1	*			7.83	8.01	NA
Tumor necrosis factor				1.1	0.89	NA
TNF-beta				3.8	4	NA
Tumor necrosis factor receptor superfamily member 9				6.59	6.69	NA
Tumor necrosis factor ligand superfamily member 14				4.54	4.69	NA
TNF-related apoptosis-inducing ligand				8.14	8.24	NA
	w			5.35	5.65	NA
TNF-related activation-induced cytokine						
Thymic stromal lymphopoietin	ste ste ste ste	she she she	ste ste ste ste	1.08	1.1	NA
Thymic stromal lymphopoietin Tumor necrosis factor	ste ste ste ste ste	ste ste ste ste ste	***	1.08 8.77	8.96	NA
Thymic stromal lymphopoietin		ste ste ste	the the the			

 Table 28: Women table for biomarkers significance, medicine Cetrizin

Protein	No correction	Benjamini	Bonferroni	Avg Medicated	Avg Healthy	Imag
Adenosine Deaminase Artemin	***	***	***	4.91	4.74	NA NA
Artemin Axin-1				0.03 0.94	0.08 1.12	NA NA
Brain-derived neurotrophic factor				2.67	4.11	NA
Beta-nerve growth factor				2	1.89	NA
Caspase-8				1.4	1.4	NA
Eotaxin	w			7.46	7.85	NA
C-C motif chemokine 19				9.36	9.42	NA
C-C motif chemokine 20	*			5.52	6.05	NA
C-C motif chemokine 23	*			9.55	9.31	NA
C-C motif chemokine 25 C-C motif chemokine 28				5.85	6.07	NA
C-C motif chemokine 28 C-C motif chemokine 3				1.17 2.04	1.27 2.2	NA NA
C-C motif chemokine 4	*			6.03	6.47	NA
Natural killer cell receptor 2B4				6.31	6.33	NA
CD40L receptor				9.23	9.17	NA
T-cell surface glycoprotein CD5				4	4	NA
T cell surface glycoprotein CD6 isoform				3.42	3.64	NA
CUB domain-containing protein 1	1			2.41	2.43	NA
Macrophage colony-stimulating factor 1 Cystatin D	物物物	*		8.13 6.49	7.86 6.77	NA NA
Fractalkine		-		6.49	6.52	NA NA
C-X-C motif chemokine 1				8.63	8.9	NA
C-X-C motif chemokine 10				9.41	9.6	NA
C-X-C motif chemokine 11	w			6.72	7.3	NA
C-X-C motif chemokine 5				12.37	12.58	NA
C-X-C motif chemokine 6	ste ste	ŵ		8.53	9.16	NA
C-X-C motif chemokine 9				7.25	7.21	NA
Delta and Notch-like epidermal growth factor-related receptor				7.27	7.29	NA
Eukaryotic translation initiation factor 4E-binding protein 1	ste ste	*		4.43	5.68	NA
Protein S100-A12	w			5.1	5.1	NA
Fibroblast growth factor 19 Fibroblast growth factor 21	1 "			7.26 2.36	8.01 3.14	NA NA
Fibroblast growth factor 21 Fibroblast growth factor 23	***	skr skr skr	**	2.36	2.72	NA NA
Fibroblast growth factor 5				1.32	1.49	NA
Fms-related tyrosine kinase 3 ligand				8.84	8.81	NA
Glial cell line-derived neurotrophic factor	shr shr shr	w w	*	1.78	2.21	NA
Hepatocyte growth factor				7.8	7.93	NA
Interferon gamma	the the the the	ste ste ste ste	she she she she	0.99	1.02	NA
Interleukin-10				4.03	4.08	NA
Interleukin-10 receptor subunit alpha				1.19	1.39	NA
Interleukin-10 receptor subunit beta				7.64	7.44	NA
Interleukin-12 subunit beta	ale ale ale ale	ste ste ste ste	also also also also	4.84	4.84	NA
Interleukin-13 Interleukin-15 receptor subunit alpha				1.54 1.24	1.63 1.24	NA NA
Interleukin-17A				0.88	0.84	NA
Interleukin-17C				1.54	1.65	NA
Interleukin-18				7.16	6.96	NA
Interleukin-18 receptor 1				7.68	7.46	NA
Interleukin-1 alpha				1.66	1.84	NA
Interleukin-2	the trib trib	ste ste ste ste	she she she she	1.22	1.23	NA
Interleukin-20	w			0.81	0.87	NA
Interleukin-20 receptor subunit alpha				0.94	0.99	NA
Interleukin-22 receptor subunit alpha-1	***	***	ste ste ste ste ste ste ste ste	2.26	2.26	NA
Interleukin-24 Interleukin-2 receptor subunit beta	***	***	***	1.34 0.85	1.41 0.9	NA NA
	ste ste ste	de de de de	ste ste ste ste			NA NA
Interleukin-33 Interleukin-4	who who	w		1.43 1.01	1.5 1.19	NA
Interleukin-5				3.01	2.15	NA
Interleukin-6				2.66	2.88	NA
Interleukin-7				5.29	5.22	NA
Interleukin-8				7.45	7.52	NA
Leukemia inhibitory factor				0.84	0.92	NA
Leukemia inhibitory factor receptor	w/r			3.18	3.46	NA
Monocyte chemotactic protein 1				9.65	9.81	NA
Monocyte chemotactic protein 2				9.76	10.06	NA
Monocyte chemotactic protein 3	ste ste ste	*		2.02	2.33	NA NA
Monocyte chemotactic protein 4 Matrix metalloproteinase-1				3 6.68	3.55 6.96	NA NA
Matrix metalloproteinase-1 Matrix metalloproteinase-10				8.89	8.96	NA
Neurturin				1.38	1.24	NA
Neurotrophin-3				2.23	2.1	NA
Osteoprotegerin				9.81	9.69	NA
Oncostatin-M				4.79	4.76	NA
Programmed cell death 1 ligand 1				4.85	4.85	NA
Stem cell factor	ste ste	w		8.9	9.26	NA
SIR2-like protein 2				2.94	2.93	NA
Signaling lymphocytic activation molecule				2.98	3.1	NA
Sulfotransferase 1A1				1.79	2.07	NA NA
STAM-binding protein				2.45 3.74	2.63	NA NA
Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1				3.74 7.89	3.87 8.01	NA NA
Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor	ste ste	str.		7.89 0.84	8.01 0.89	NA NA
Tumor necrosis factor TNF-beta				3.85	0.89	NA NA
Tumor necrosis factor receptor superfamily member 9				6.65	6.69	NA
Tumor necrosis factor ligand superfamily member 14				4.68	4.69	NA
TNF-related apoptosis-inducing ligand	str str	w		7.92	8.24	NA
TNF-related activation-induced cytokine	ste ste	ŵ		4.89	5.65	NA
Thymic stromal lymphopoietin	she she she	ste ste ste	***	1.08	1.1	NA
Tumor necrosis factor				8.83	8.96	NA
Urokinase-type plasminogen activator	w w	w		9.55	9.96	NA

Table 29: Women table for biomarkers significance, medicine Mercilon

Protein	No correction	Benjamini	Bonferroni	Avg Medicated	Avg Healthy	Imag
Adenosine Deaminase Artemin	she she she she	the the the the	ste ste ste ste	4.78	4.74	NA
Artemin Axin-1		~ ~ ~ W	****	0.03 0.98	0.08	NA NA
				4.06	1.12 4.11	NA NA
Brain-derived neurotrophic factor				1.94	1.89	NA
Beta-nerve growth factor Caspase-8				1.94	1.4	NA
Eotaxin				7.63	7.85	NA
C-C motif chemokine 19				9.21	9.42	NA
C-C motif chemokine 20				5.91	6.05	NA
C-C motif chemokine 23				9.34	9.31	NA
C-C motif chemokine 25				5.95	6.07	NA
C-C motif chemokine 28				1.65	1.27	NA
C-C motif chemokine 3				2.47	2.2	NA
C-C motif chemokine 4				6.35	6.47	NA
Natural killer cell receptor 2B4				6.22	6.33	NA
CD40L receptor				9.29	9.17	NA
T-cell surface glycoprotein CD5				3.92	4	NA
T cell surface glycoprotein CD6 isoform				3.49	3.64	NA
CUB domain-containing protein 1				2.47	2.43	NA
Macrophage colony-stimulating factor 1	*			8.11	7.86	NA
Cystatin D				6.76	6.77	NA
Fractalkine				6.43	6.52	NA
C-X-C motif chemokine 1				8.75	8.9	NA
C-X-C motif chemokine 10				9.49	9.6	NA
C-X-C motif chemokine 11				7.37	7.3	NA
C-X-C motif chemokine 5				12.67	12.58	NA
C-X-C motif chemokine 6				8.76	9.16	NA
C-X-C motif chemokine 9				7.65	7.21	NA
Delta and Notch-like epidermal growth factor-related receptor				7.19	7.29	NA
Eukaryotic translation initiation factor 4E-binding protein 1				5.04	5.68	NA
Protein S100-A12				5.18	5.1	NA
Fibroblast growth factor 19				8.21	8.01	NA
Fibroblast growth factor 21				3.39	3.14	NA
Fibroblast growth factor 23				2.4	2.72	NA
Fibroblast growth factor 5	*			1.28	1.49	NA
Fms-related tyrosine kinase 3 ligand				9.07	8.81	NA
Glial cell line-derived neurotrophic factor	***	***	***	1.71	2.21	NA
Hepatocyte growth factor				8.02	7.93	NA
Interferon gamma	* * * *	***	***	0.99	1.02	NA
Interleukin-10				4.33	4.08	NA
Interleukin-10 receptor subunit alpha				1.15	1.39	NA
Interleukin-10 receptor subunit beta				7.52	7.44	NA
Interleukin-12 subunit beta				4.57	4.84	NA
Interleukin-13	skr skr skr	she she she she	***	1.54	1.63	NA
Interleukin-15 receptor subunit alpha				1.15	1.24	NA
Interleukin-17A				0.91	0.84	NA
Interleukin-17C				1.72	1.65	NA
Interleukin-18				7.11	6.96	NA
Interleukin-18 receptor 1				7.68	7.46	NA
Interleukin-1 alpha				1.73	1.84	NA
Interleukin-2	***	***	***	1.22	1.23	NA
Interleukin-20	w			0.8	0.87	NA
Interleukin-20 receptor subunit alpha	w w w	skr skr		0.89	0.99	NA
Interleukin-22 receptor subunit alpha-1	***	***	***	2.26	2.26	NA
Interleukin-24				1.37	1.41	NA
Interleukin-2 receptor subunit beta				0.96	0.9	NA
Interleukin-33	***	***	***	1.43	1.5	NA
Interleukin-4				1.02	1.19	NA
Interleukin-5				2.26	2.15	NA
Interleukin-6				2.92	2.88	NA
Interleukin-7				5.74	5.22	NA
Interleukin-8				7.5	7.52	NA
Leukemia inhibitory factor	***	***	***	0.8	0.92	NA
Leukemia inhibitory factor receptor	ste ste	w		3.15	3.46	NA
Monocyte chemotactic protein 1				9.87	9.81	NA
Monocyte chemotactic protein 2				10.14	10.06	NA
Monocyte chemotactic protein 2 Monocyte chemotactic protein 3				2.06	2.33	NA
Monocyte chemotactic protein 4	w			2.96	3.55	NA
Matrix metalloproteinase-1				6.72	6.96	NA
Matrix metalloproteinase-1 Matrix metalloproteinase-10				9.31	8.96	NA
Matrix metalioproteinase-10 Neurturin	strate strate	***	***	1.12	1.24	NA
Neurotrophin-3				2.06	2.1	NA
Neurotropnin-3 Osteoprotegerin				9.73	9.69	
Osteoprotegerin Oncostatin-M				9.73 5.08	9.69 4.76	NA NA
Oncostatin-M Programmed cell death 1 ligand 1				4.93	4.76	NA NA
Stem cell factor	w			4.93 8.75	9.26	NA
SIR2-like protein 2				2.77	2.93	NA
Sir2-like protein 2 Signaling lymphocytic activation molecule				3	3.1	NA NA
Sulfotransferase 1A1				1.77	2.07	NA NA
STAM-binding protein				2.56	2.63	NA
Transforming growth factor alpha				4.09	3.87	NA
Latency-associated peptide transforming growth factor beta-1				8.08	8.01	NA
Tumor necrosis factor				1.18	0.89	NA
TNF-beta				4.13	4	NA
Tumor necrosis factor receptor superfamily member 9				6.59	6.69	NA
Tumor necrosis factor ligand superfamily member 14				4.77	4.69	NA
TNF-related apoptosis-inducing ligand				7.91	8.24	NA
TNF-related activation-induced cytokine				5.06	5.65	NA
Thymic stromal lymphopoietin	ste ste ste ste	ste ste ste ste	ste ste ste ste	1.08	1.1	NA
Tumor necrosis factor	**	*		8.69	8.96	NA
Urokinase-type plasminogen activator	w			9.65	9.96	NA

Table 30: Women table for biomarkers significance, medicine Yasmin

Protein	No correction	Benjamini	Bonferroni	Avg Medicated	Avg Healthy	Image
Adenosine Deaminase	*			4.7	4.74	NA
Artemin Axin-1	w			0.04 0.97	0.08 1.12	NA NA
Axin-1 Brain-derived neurotrophic factor				4.69	4.11	NA NA
Beta-nerve growth factor				1.88	1.89	NA
Caspase-8				1.37	1.4	NA
Eotaxin				7.82	7.85	NA
C-C motif chemokine 19				9.18	9.42	NA
C-C motif chemokine 20				5.85	6.05	NA
C-C motif chemokine 23				9.3	9.31	NA
C-C motif chemokine 25				5.99	6.07	NA
C-C motif chemokine 28				0.99	1.27	NA
C-C motif chemokine 3				2.1	2.2	NA
C-C motif chemokine 4				6.25	6.47	NA
Natural killer cell receptor 2B4				6.26	6.33	NA
CD40L receptor				9.21	9.17	NA
T-cell surface glycoprotein CD5				4.05	4	NA
T cell surface glycoprotein CD6 isoform				3.78	3.64	NA
CUB domain-containing protein 1				2.41	2.43	NA
Macrophage colony-stimulating factor 1				7.86	7.86	NA
Cystatin D				6.75	6.77	NA
Fractalkine				6.65	6.52	NA
C-X-C motif chemokine 1				8.83	8.9	NA
C-X-C motif chemokine 10				9.64	9.6	NA
C-X-C motif chemokine 11				7.02	7.3	NA
C-X-C motif chemokine 5				12.5	12.58	NA
C-X-C motif chemokine 6				9.03	9.16	NA
C-X-C motif chemokine 9				7.29	7.21	NA
Delta and Notch-like epidermal growth factor-related receptor				7.33	7.29	NA
Eukaryotic translation initiation factor 4E-binding protein 1				5.61	5.68	NA
Protein S100-A12				5.24	5.1	NA
Fibroblast growth factor 19				8.02	8.01	NA
Fibroblast growth factor 21				4.09	3.14	NA
Fibroblast growth factor 23				2.58	2.72	NA
Fibroblast growth factor 5				1.52	1.49	NA
Fms-related tyrosine kinase 3 ligand				8.87	8.81	NA
Glial cell line-derived neurotrophic factor				2.18	2.21	NA
Hepatocyte growth factor	ste ste ste ste		she she she she	7.95	7.93	NA
Interferon gamma	strate strate	ste ste ste	***	0.99	1.02	NA
Interleukin-10				4.96	4.08	NA
Interleukin-10 receptor subunit alpha				1.35	1.39	NA
Interleukin-10 receptor subunit beta				7.45	7.44	NA
Interleukin-12 subunit beta				5.17	4.84	NA
Interleukin-13				1.61	1.63	NA
Interleukin-15 receptor subunit alpha				1.19	1.24	NA
Interleukin-17A				0.76	0.84	NA
Interleukin-17C				1.61	1.65	NA
Interleukin-18	w			6.71	6.96	NA
Interleukin-18 receptor 1				7.53	7.46	NA
Interleukin-1 alpha				1.75	1.84	NA
Interleukin-2	***	***	***	1.22	1.23	NA
Interleukin-20	w			0.8	0.87	NA
Interleukin-20 receptor subunit alpha	ste ste ste ste	ste ste ste	also also also also	0.96	0.99	NA
Interleukin-22 receptor subunit alpha-1	de de de de	de de de de	ste ste ste	2.26	2.26	NA
Interleukin-24	****	***	www	1.34	1.41	NA
Interleukin-2 receptor subunit beta				0.87	0.9	NA
Interleukin-33				1.43	1.5	NA
Interleukin-4	who who who	***	ww	0.98	1.19	NA
Interleukin-5				2.43	2.15	NA
Interleukin-6				2.79	2.88	NA
Interleukin-7				5.13	5.22	NA
Interleukin-8				7.66	7.52	NA
Leukemia inhibitory factor				1.29	0.92	NA
Leukemia inhibitory factor receptor				3.52	3.46	NA
Monocyte chemotactic protein 1				10.05	9.81	NA
Monocyte chemotactic protein 2				10.09	10.06	NA
Monocyte chemotactic protein 3				2.24	2.33	NA
Monocyte chemotactic protein 4				3.77	3.55	NA
Matrix metalloproteinase-1				6.61	6.96	NA
Matrix metalloproteinase-10				8.7	8.96	NA
Neurturin				1.34	1.24	NA
Neurotrophin-3				2.08	2.1	NA
Osteoprotegerin				9.87	9.69	NA
Oncostatin-M				4.6	4.76	NA
Programmed cell death 1 ligand 1				5.21	4.85	NA
Stem cell factor				9.31	9.26	NA
SIR2-like protein 2				2.78	2.93	NA
Signaling lymphocytic activation molecule				3.03	3.1	NA
Sulfotransferase 1A1	w w			1.51	2.07	NA
STAM-binding protein				2.42	2.63	NA
Transforming growth factor alpha				3.73	3.87	NA
Latency-associated peptide transforming growth factor beta-1				8.07	8.01	NA
Tumor necrosis factor				0.99	0.89	NA
TNF-beta				3.92	4	NA
Tumor necrosis factor receptor superfamily member 9				6.81	6.69	NA
Tumor necrosis factor ligand superfamily member 14				4.72	4.69	NA
TNF-related apoptosis-inducing ligand				8.08	8.24	NA
TNF-related activation-induced cytokine				5.42	5.65	NA
	***	***	***	1.08	1.1	NA
Thymic stromal lymphopoietin						
Thymic stromal lymphopoietin Tumor necrosis factor				9.05	8.96	NA
						NA NA

 Table 31: Women table for biomarkers significance, medicine Cerazette

Protein	No correction	Benjamini	Bonferroni	Avg Medicated	Avg Healthy	Image
Adenosine Deaminase				4.68	4.74	NA
Artemin				0.05	0.08	NA
Axin-1				1.14	1.12	NA
Brain-derived neurotrophic factor				4.66	4.11	NA
Beta-nerve growth factor				1.76	1.89	NA
Caspase-8				1.25	1.4	NA
Eotaxin				7.81	7.85	NA
C-C motif chemokine 19				9.51	9.42	NA
C-C motif chemokine 20				6.2	6.05	NA
C-C motif chemokine 23				9.34	9.31	NA
C-C motif chemokine 25	w			5.61	6.07	NA
C-C motif chemokine 28				1.21	1.27	NA
C-C motif chemokine 3				2.11	2.2	NA
C-C motif chemokine 4				6.56	6.47	NA
Natural killer cell receptor 2B4				6.31	6.33	NA
CD40L receptor				9.17	9.17	NA
T-cell surface glycoprotein CD5				4.02	4	NA
T cell surface glycoprotein CD6 isoform				3.63	3.64	NA
CUB domain-containing protein 1				2.43	2.43	NA
Macrophage colony-stimulating factor 1				7.84	7.86	NA
Cystatin D				6.89	6.77	NA
Fractalkine				6.58	6.52	NA
C-X-C motif chemokine 1				9.05	8.9	NA
C-X-C motif chemokine 10				9.37	9.6	NA
C-X-C motif chemokine 10				7.32	7.3	NA
C-X-C motif chemokine 5				12.52	12.58	NA
C-X-C motif chemokine 6				9.24	9.16	NA
C-X-C motif chemokine 9				7.09	7.21	NA
Delta and Notch-like epidermal growth factor-related receptor				7.28	7.29	NA
Eukaryotic translation initiation factor 4E-binding protein 1				5.87	5.68	NA
Protein S100-A12				5.45	5.1	NA
Fibroblast growth factor 19	**	w		7.17	8.01	NA
Fibroblast growth factor 21				3.16	3.14	NA
Fibroblast growth factor 23				3.05	2.72	NA
Fibroblast growth factor 5				1.47	1.49	NA
Fms-related tyrosine kinase 3 ligand				8.86	8.81	NA
Glial cell line-derived neurotrophic factor				2.11	2.21	NA
Hepatocyte growth factor				8.04	7.93	NA
Interferon gamma	***	***	***	0.99	1.02	NA
Interleukin-10				4.07	4.08	NA
Interleukin-10 receptor subunit alpha				1.41	1.39	NA
Interleukin-10 receptor subunit beta				7.49	7.44	NA
Interleukin-12 subunit beta				4.93	4.84	NA
Interleukin-13	***	***	***	1.54	1.63	NA
Interleukin-15 receptor subunit alpha				1.2	1.24	NA
Interleukin-17A				0.8	0.84	NA
Interleukin-17C	w			1.5	1.65	NA
Interleukin-18				6.98	6.96	NA
Interleukin-18 receptor 1				7.61	7.46	NA
Interleukin-1 alpha				1.81	1.84	NA
Interleukin-2	shr shr shr shr	* * * *	***	1.22	1.23	NA
Interleukin-20	w			0.8	0.87	NA
Interleukin-20 receptor subunit alpha				1.07	0.99	NA
Interleukin-22 receptor subunit alpha-1	***	***	***	2.26	2.26	NA
Interleukin-24				1.36	1.41	NA
	sterate sterate	ste ste ste ste	ste ste ste ste			
Interleukin-2 receptor subunit beta	www	***	www	0.85	0.9	NA
Interleukin-33				1.44	1.5	NA
Interleukin-4				1.28	1.19	NA
Interleukin-5				2.45	2.15	NA
Interleukin-6				2.6	2.88	NA
Interleukin-7				5.21	5.22	NA
Interleukin-8				7.4	7.52	NA
Leukemia inhibitory factor				0.88	0.92	NA
Leukemia inhibitory factor receptor				3.45	3.46	NA
Monocyte chemotactic protein 1				9.74	9.81	NA
Monocyte chemotactic protein 2				10.21	10.06	NA
Monocyte chemotactic protein 3				2.13	2.33	NA
Monocyte chemotactic protein 4				3.61	3.55	NA
Matrix metalloproteinase-1				7.25	6.96	NA
Matrix metalloproteinase-10				8.83	8.96	NA
Neurturin	sk sk sk sk	***	***	1.12	1.24	NA
Neurotrophin-3				2.06	2.1	NA
Osteoprotegerin				9.91	9.69	NA
Oncostatin-M				4.91	4.76	NA
Programmed cell death 1 ligand 1				4.84	4.85	NA
Stem cell factor				9.26	9.26	NA
SIR2-like protein 2				2.92	2.93	NA
Signaling lymphocytic activation molecule				2.93	3.1	NA
Sulfotransferase 1A1				1.92	2.07	NA
STAM-binding protein				2.59	2.63	NA
Transforming growth factor alpha				3.96	3.87	NA
Latency-associated peptide transforming growth factor beta-1				8.06	8.01	NA
Tumor necrosis factor	ste ste	ŵ		0.84	0.89	NA
				3.71	4	NA
TNF-beta				6.77	6.69	NA
TNF-beta Tumor necrosis factor receptor superfamily member 9				4.75	4.69	NA
Tumor necrosis factor receptor superfamily member 9						
Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14				9.10	8 24	NIA
Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand				8.19	8.24	NA
Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine				5.47	5.65	NA
Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine Thymic stromal lymphopoietin				5.47 1.13	5.65 1.1	NA NA
Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine Thymic stromal lymphopoietin Tumor necrosis factor				5.47 1.13 8.85	5.65 1.1 8.96	NA NA NA
Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine Thymic stromal lymphopoietin				5.47 1.13	5.65 1.1	NA NA

Table 32: Women table for biomarkers significance, medicine Imigran

Protein	No correction	Benjamini	Bonferroni	Avg Medicated	Avg Healthy	Image
Adenosine Deaminase	w			5.09	4.74	NA
Artemin	* * * *	***	***	0.03	0.08	NA
Axin-1				0.92	1.12	NA
Brain-derived neurotrophic factor				6.68	4.11	NA
Beta-nerve growth factor				2.15	1.89	NA
Caspase-8				1.7	1.4	NA
Eotaxin				7.42	7.85	NA
C-C motif chemokine 19				9.49	9.42	NA
C-C motif chemokine 20				5.67	6.05	NA
C-C motif chemokine 23				9.46	9.31	NA
C-C motif chemokine 25				6.22	6.07	NA
C-C motif chemokine 28				1.13	1.27	NA
C-C motif chemokine 3				2.37	2.2	NA
C-C motif chemokine 4				6.58	6.47	NA
Natural killer cell receptor 2B4				6.37	6.33	NA
CD40L receptor				9.29	9.17	NA
T-cell surface glycoprotein CD5				4.15	4	NA
T cell surface glycoprotein CD6 isoform				4.05	3.64	NA
CUB domain-containing protein 1				2.69	2.43	NA
Macrophage colony-stimulating factor 1				8.14	7.86	NA
Cystatin D				6.64	6.77	NA
Fractalkine				6.67	6.52	NA
C-X-C motif chemokine 1				8.77	8.9	NA
C-X-C motif chemokine 10				9.66	9.6	NA
C-X-C motif chemokine 11				7.12	7.3	NA
C-X-C motif chemokine 5				12.55	12.58	NA
C-X-C motif chemokine 6				8.76	9.16	NA
C-X-C motif chemokine 9				7.68	7.21	NA
Delta and Notch-like epidermal growth factor-related receptor				7.45	7.29	NA
Eukaryotic translation initiation factor 4E-binding protein 1	skr skr	ŵ		4.12	5.68	NA
Protein S100-A12				5.3	5.1	NA
Fibroblast growth factor 19				8.23	8.01	NA
Fibroblast growth factor 21				3.11	3.14	NA
Fibroblast growth factor 23	* * * *	***	***	2.1	2.72	NA
Fibroblast growth factor 5				1.43	1.49	NA
Fms-related tyrosine kinase 3 ligand				8.87	8.81	NA
Glial cell line-derived neurotrophic factor	sh sh sh sh	* * *	**	1.71	2.21	NA
Hepatocyte growth factor				7.82	7.93	NA
Interferon gamma	* * * *	* * * *	***	0.99	1.02	NA
Interleukin-10				4.34	4.08	NA
Interleukin-10 receptor subunit alpha				1.4	1.39	NA
Interleukin-10 receptor subunit beta				7.52	7.44	NA
Interleukin-12 subunit beta				4.78	4.84	NA
Interleukin-13	***	***	***	1.54	1.63	NA
Interleukin-15 receptor subunit alpha				1.25	1.24	NA
Interleukin-17A				0.73	0.84	NA
Interleukin-17C				1.53	1.65	NA
Interleukin-18	w			7.3	6.96	NA
Interleukin-18 receptor 1				7.72	7.46	NA
-				2.69		NA
Interleukin-1 alpha Interleukin-2	ste ste ste ste	de de de de	ster ster ster ste		1.84	
	***	www	***	1.22	1.23	NA
Interleukin-20	sterate ste	w w		0.97	0.87	NA
Interleukin-20 receptor subunit alpha		we we	ste ste ste ste	0.88	0.99	NA
Interleukin-22 receptor subunit alpha-1	* * * *			2.26	2.26	NA
Interleukin-24	sh sh sh sh	***	***	1.34	1.41	NA
Interleukin-2 receptor subunit beta				0.95	0.9	NA
Interleukin-33	* * * *	***	***	1.43	1.5	NA
Interleukin-4				1.25	1.19	NA
Interleukin-5				2.09	2.15	NA
Interleukin-6				3.06	2.88	NA
Interleukin-7				5.36	5.22	NA
Interleukin-8				7.32	7.52	NA
Leukemia inhibitory factor	ste ste ste ste	***	ste ste ste ste	0.8	0.92	NA
Leukemia inhibitory factor receptor				3.29	3.46	NA
Monocyte chemotactic protein 1				9.7	9.81	NA
Monocyte chemotactic protein 2				9.92	10.06	NA
Monocyte chemotactic protein 3				2.2	2.33	NA
Monocyte chemotactic protein 4				3	3.55	NA
Matrix metalloproteinase-1	skr			7.45	6.96	NA
Matrix metalloproteinase-10				9.18	8.96	NA
Neurturin	str str str	***	ste ste ste ste	1.12	1.24	NA
Neurotrophin-3				2.02	2.1	NA
Osteoprotegerin	skr skr	skr		9.96	9.69	NA
Oncostatin-M				4.74	4.76	NA
Programmed cell death 1 ligand 1				4.99	4.85	NA
Stem cell factor				9.11	9.26	NA
SIR2-like protein 2				2.87	2.93	NA
Signaling lymphocytic activation molecule				2.91	3.1	NA
Sulfotransferase 1A1				1.98	2.07	NA
STAM-binding protein				2.44	2.63	NA
				3.92	3.87	NA NA
Transforming growth factor alpha						
Latency-associated peptide transforming growth factor beta-1	ste ste			8.08	8.01	NA
Tumor necrosis factor	w W	er		0.84	0.89	NA
TNF-beta				4.14	4	NA
Tumor necrosis factor receptor superfamily member 9				6.59	6.69	NA
Tumor necrosis factor ligand superfamily member 14				4.75	4.69	NA
TNF-related apoptosis-inducing ligand	ste ste	w		7.92	8.24	NA
	w w	ŵ		4.42	5.65	NA
TNF-related activation-induced cytokine						
TNF-related activation-induced cytokine Thymic stromal lymphopoietin				1.13	1.1	NA
				1.13 8.82	1.1 8.96	NA NA
Thymic stromal lymphopoietin						

 Table 33: Women table for biomarkers significance, medicine Yasminelle

Protein	No correction	Benjamini	Bonferroni	Avg Medicated	Avg Healthy	Image
Adenosine Deaminase				4.86	4.74	NA
Artemin				0.18	0.08	NA
Axin-1				1.08	1.12	NA
Brain-derived neurotrophic factor				2.9	4.11	NA
Beta-nerve growth factor	w			2.04	1.89	NA
Caspase-8				1.34	1.4	NA
Eotaxin				7.59	7.85	NA
C-C motif chemokine 19				9.55	9.42	NA
C-C motif chemokine 20				5.86	6.05	NA
C-C motif chemokine 23				9.48	9.31	NA
C-C motif chemokine 25				5.67	6.07	NA
C-C motif chemokine 28				1.54	1.27	NA
C-C motif chemokine 3				2.32	2.2	NA
C-C motif chemokine 4				6.75	6.47	NA
Natural killer cell receptor 2B4				6.4	6.33	NA
CD40L receptor				9.15	9.17	NA
T-cell surface glycoprotein CD5				4.06	4	NA
T cell surface glycoprotein CD6 isoform						
				3.66	3.64	NA
CUB domain-containing protein 1	w/w			2.43	2.43	NA
Macrophage colony-stimulating factor 1	w			8.1	7.86	NA
Cystatin D				6.68	6.77	NA
Fractalkine	**	*		6.73	6.52	NA
C-X-C motif chemokine 1				8.93	8.9	NA
C-X-C motif chemokine 10	ww			10.25	9.6	NA
C-X-C motif chemokine 11	w w	w		8.07	7.3	NA
C-X-C motif chemokine 5				12.78	12.58	NA
C-X-C motif chemokine 6				8.99	9.16	NA
C-X-C motif chemokine 9	skr			7.9	7.21	NA
Delta and Notch-like epidermal growth factor-related receptor				7.15	7.29	NA
Eukaryotic translation initiation factor 4E-binding protein 1	w w			4.27	5.68	NA
Protein S100-A12				5.19	5.1	NA
Fibroblast growth factor 19				8.09	8.01	NA
Fibroblast growth factor 21				2.9	3.14	NA
Fibroblast growth factor 23	w w			2.34	2.72	NA
Fibroblast growth factor 5	w			1.26	1.49	NA
Fms-related tyrosine kinase 3 ligand	***	w		8.81	8.81	NA
Glial cell line-derived neurotrophic factor		-		1.78	2.21	NA
Hepatocyte growth factor				7.93	7.93	NA
Interferon gamma				1.03	1.02	NA
Interleukin-10				4.41	4.08	NA
Interleukin-10 receptor subunit alpha				1.26	1.39	NA
Interleukin-10 receptor subunit beta				7.62	7.44	NA
Interleukin-12 subunit beta				5.03	4.84	NA
Interleukin-13				1.89	1.63	NA
Interleukin-15 receptor subunit alpha				1.16	1.24	NA
Interleukin-17A				0.94	0.84	NA
Interleukin-17C				1.68	1.65	NA
Interleukin-18	w			7.28	6.96	NA
Interleukin-18 receptor 1				7.75	7.46	NA
Interleukin-1 alpha				1.71	1.84	NA
Interleukin-2	***	***	***	1.22	1.23	NA
Interleukin-20	*			0.8	0.87	NA
Interleukin-20 receptor subunit alpha				0.92	0.99	NA
Interleukin-22 receptor subunit alpha-1	strate strate	***	ste ste ste	2.26	2.26	NA
Interleukin-22 receptor subuliit aipiia-1	sterate sterate	***	***	1.34	1.41	NA
	ste ste ste ste	ster ster ster	ste ste ste ste			
Interleukin-2 receptor subunit beta	1	***	***	0.85	0.9	NA
Interleukin-33	***	***	***	1.43	1.5	NA
Interleukin-4				1.46	1.19	NA
Interleukin-5				2.17	2.15	NA
Interleukin-6				3.11	2.88	NA
Interleukin-7				5.32	5.22	NA
Interleukin-8				7.57	7.52	NA
Leukemia inhibitory factor				0.85	0.92	NA
Leukemia inhibitory factor receptor	*			3.14	3.46	NA
Monocyte chemotactic protein 1				9.71	9.81	NA
Monocyte chemotactic protein 2				10.17	10.06	NA
Monocyte chemotactic protein 3				2.2	2.33	NA
Monocyte chemotactic protein 4				3.25	3.55	NA
Matrix metalloproteinase-1				7.18	6.96	NA
Matrix metalloproteinase-10				9.73	8.96	NA
Neurturin				1.17	1.24	NA
Neurotrophin-3				2.04	2.1	NA
Osteoprotegerin				9.66	9.69	NA NA
				5		
Oncostatin-M					4.76	NA NA
Programmed cell death 1 ligand 1				4.86	4.85	NA
Stem cell factor				8.96	9.26	NA
SIR2-like protein 2				2.79	2.93	NA
Signaling lymphocytic activation molecule				3.08	3.1	NA
Sulfotransferase 1A1				2.29	2.07	NA
STAM-binding protein				2.41	2.63	NA
Transforming growth factor alpha				4	3.87	NA
Latency-associated peptide transforming growth factor beta-1				7.88	8.01	NA
Tumor necrosis factor				1.02	0.89	NA
TNF-beta				4.17	4	NA
Tumor necrosis factor receptor superfamily member 9				6.59	6.69	NA
Tumor necrosis factor ligand superfamily member 14				4.91	4.69	NA
TNF-related apoptosis-inducing ligand				8.19	8.24	NA
TNF-related activation-induced cytokine				5.41	5.65	NA
Thymic stromal lymphopoietin	I			1.08	1.1	NA
Tumor necrosis factor	*			8.65	8.96	NA
	ske ske ske			8.65 9.6	8.96 9.96	NA NA

Table 34: Women table for biomarkers significance, medicine Flutide

Protein Advancing Desminage	No correction	Benjamini	Bonferroni	Avg Medicated	Avg Healthy	Imag
Adenosine Deaminase Artemin	ste ste ste ste	ste ste ste ste	ste ste ste ste	4.64 0.03	4.74 0.08	NA NA
Axin-1				1.11	1.12	NA
Brain-derived neurotrophic factor				4.8	4.11	NA
Beta-nerve growth factor				1.96	1.89	NA
Caspase-8				1.52	1.4	NA
Eotaxin				7.81	7.85	NA
C-C motif chemokine 19				9.58	9.42	NA
C-C motif chemokine 20 C-C motif chemokine 23				6.64 9.47	6.05 9.31	NA NA
C-C motif chemokine 25				6.34	6.07	NA
C-C motif chemokine 28				1.31	1.27	NA
C-C motif chemokine 3				2.08	2.2	NA
C-C motif chemokine 4				6.59	6.47	NA
Natural killer cell receptor 2B4				6.41	6.33	NA
CD40L receptor				9.17	9.17	NA
T-cell surface glycoprotein CD5				3.99	4	NA
T cell surface glycoprotein CD6 isoform CUB domain-containing protein 1				3.71 2.43	3.64 2.43	NA NA
Macrophage colony-stimulating factor 1				7.92	7.86	NA
Cystatin D				6.89	6.77	NA
Fractalkine				6.65	6.52	NA
C-X-C motif chemokine 1				8.57	8.9	NA
C-X-C motif chemokine 10				9.63	9.6	NA
C-X-C motif chemokine 11				7.33	7.3	NA
C-X-C motif chemokine 5				12.57	12.58	NA
C-X-C motif chemokine 6				8.98	9.16	NA NA
C-X-C motif chemokine 9 Delta and Notch-like epidermal growth factor-related receptor				7.38 7.23	7.21 7.29	NA NA
Eukaryotic translation initiation factor 4E-binding protein 1				5.53	5.68	NA
Protein S100-A12				5.42	5.1	NA
Fibroblast growth factor 19				8.3	8.01	NA
Fibroblast growth factor 21				3.45	3.14	NA
Fibroblast growth factor 23				2.7	2.72	NA
Fibroblast growth factor 5				1.58	1.49	NA
Fms-related tyrosine kinase 3 ligand				8.99	8.81	NA
Glial cell line-derived neurotrophic factor				2.49	2.21	NA
Hepatocyte growth factor Interferon gamma				8.18 1.01	7.93 1.02	NA NA
Interleukin-10				4.29	4.08	NA
Interleukin-10 receptor subunit alpha				1.22	1.39	NA
Interleukin-10 receptor subunit beta				7.4	7.44	NA
Interleukin-12 subunit beta				4.54	4.84	NA
Interleukin-13				1.65	1.63	NA
Interleukin-15 receptor subunit alpha				1.22	1.24	NA
Interleukin-17A				0.72	0.84	NA
Interleukin-17C Interleukin-18				1.89	1.65	NA
Interleukin-18 Interleukin-18 receptor 1				7.27 7.48	6.96 7.46	NA NA
Interleukin-1 alpha				2.02	1.84	NA
Interleukin-2	***	***	***	1.22	1.23	NA
Interleukin-20	w			0.8	0.87	NA
Interleukin-20 receptor subunit alpha				1.04	0.99	NA
Interleukin-22 receptor subunit alpha-1	ste ste ste ste	***	***	2.26	2.26	NA
Interleukin-24			ste ste ste ste ste ste ste ste	1.34	1.41	NA
Interleukin-2 receptor subunit beta	de de de de	ste ste ste ste	strate strate	0.85	0.9	NA
Interleukin-33 Interleukin-4	*			1.43 1.01	1.5 1.19	NA NA
Interleukin-5				3.9	2.15	NA
Interleukin-6				3.03	2.88	NA
Interleukin-7				5.08	5.22	NA
Interleukin-8				7.41	7.52	NA
Leukemia inhibitory factor				0.91	0.92	NA
Leukemia inhibitory factor receptor				3.4	3.46	NA
Monocyte chemotactic protein 1				10.17	9.81	NA
Monocyte chemotactic protein 2				10.45 2.26	10.06 2.33	NA NA
Monocyte chemotactic protein 3 Monocyte chemotactic protein 4				3.54	3.55	NA
Matrix metalloproteinase-1				7.29	6.96	NA
Matrix metalloproteinase-10				8.77	8.96	NA
Neurturin				2.06	1.24	NA
Neurotrophin-3				2.05	2.1	NA
Osteoprotegerin				9.73	9.69	NA
Oncostatin-M				5.2	4.76	NA
Programmed cell death 1 ligand 1 Stem cell factor				5 9.22	4.85	NA NA
Stem cell factor SIR2-like protein 2				9.22 2.92	9.26 2.93	NA NA
Signaling lymphocytic activation molecule				3.28	3.1	NA
Sulfotransferase 1A1				2.06	2.07	NA
STAM-binding protein				2.61	2.63	NA
Transforming growth factor alpha				4.45	3.87	NA
Latency-associated peptide transforming growth factor beta-1				8.21	8.01	NA
Tumor necrosis factor				0.85	0.89	NA
TNF-beta				3.81	4	NA
Tumor necrosis factor receptor superfamily member 9				6.68	6.69	NA
Tumor necrosis factor ligand superfamily member 14				5	4.69	NA
TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine				8.4 5.76	8.24	NA NA
Thyric stromal lymphopoietin	***	***	***	1.08	5.65 1.1	NA
Tumor necrosis factor				8.86	8.96	NA
	1					NA
Urokinase-type plasminogen activator				9.93	9.96	1474

 Table 35: Women table for biomarkers significance, medicine Symbicort

Protein	No correction	Benjamini	Bonferroni	Avg Medicated	Avg Healthy	Ima
Adenosine Deaminase				4.82	4.74	NA
Artemin Axin-1				0.05 1.18	0.08 1.12	NA NA
Axin-1 Brain-derived neurotrophic factor				6.27	4.11	NA
Beta-nerve growth factor				1.92	1.89	NA
Caspase-8				1.42	1.4	NA
Eotaxin				7.75	7.85	NA
C-C motif chemokine 19				10.37	9.42	NA
C-C motif chemokine 20				6	6.05	NA
C-C motif chemokine 23				9.39	9.31	NA
C-C motif chemokine 25				6.22	6.07	NA
C-C motif chemokine 28				1.34	1.27	NA
C-C motif chemokine 3				2.41	2.2	NA
C-C motif chemokine 4	*			6.75	6.47	NA
Natural killer cell receptor 2B4				6.59	6.33	NA
CD40L receptor				9.27	9.17	NA
T-cell surface glycoprotein CD5				4.23	4	NA
T cell surface glycoprotein CD6 isoform				4.1	3.64	NA
CUB domain-containing protein 1				2.57	2.43	NA
Macrophage colony-stimulating factor 1				7.86	7.86	NA
Cystatin D				6.94	6.77	NA
Fractalkine				6.62	6.52	NA
C-X-C motif chemokine 1				8.73	8.9	NA
C-X-C motif chemokine 10				9.31	9.6	NA
C-X-C motif chemokine 11				7.13	7.3	NA
C-X-C motif chemokine 5				12.54	12.58	NA
C-X-C motif chemokine 6				8.96	9.16	NA
C-X-C motif chemokine 9				7.18	7.21	NA
Delta and Notch-like epidermal growth factor-related receptor				7.49	7.29	NA
Eukaryotic translation initiation factor 4E-binding protein 1				5.51	5.68	NA
Protein S100-A12				5.76 8.21	5.1	NA
Fibroblast growth factor 19				8.21 2.75	8.01	NA NA
Fibroblast growth factor 21 Fibroblast growth factor 23				2.75	3.14 2.72	NA NA
Fibroblast growth factor 5						
Fibroblast growth factor 5 Fms-related tyrosine kinase 3 ligand				1.5 9.16	1.49 8.81	NA NA
Glial cell line-derived neurotrophic factor				2.23	2.21	NA
Hepatocyte growth factor				8.01	7.93	NA
Interferon gamma	***	***	***	0.99	1.02	NA
Interleukin-10				4.02	4.08	NA
Interleukin-10 receptor subunit alpha				1.9	1.39	NA
Interleukin-10 receptor subunit beta				7.63	7.44	NA
Interleukin-12 subunit beta	**	ŵ		5.35	4.84	NA
Interleukin-13	* * * *	***	***	1.54	1.63	NA
Interleukin-15 receptor subunit alpha				1.25	1.24	NA
Interleukin-17A				0.66	0.84	NA
Interleukin-17C				1.54	1.65	NA
Interleukin-18				7.06	6.96	NA
Interleukin-18 receptor 1				7.39	7.46	NA
Interleukin-1 alpha	she she she	***	* * * *	1.8	1.84	NA
Interleukin-2	the the the the	ste ste ste	she she she	1.22	1.23	NA
Interleukin-20	the the the the	ste ste ste	she she she	0.81	0.87	NA
Interleukin-20 receptor subunit alpha				1.52	0.99	NA
Interleukin-22 receptor subunit alpha-1	***	***	***	2.26	2.26	NA
Interleukin-24	We with We	***	***	1.34	1.41	NA
Interleukin-2 receptor subunit beta				0.97	0.9	NA
Interleukin-33	***	***	***	1.43	1.5	NA
Interleukin-4				1.39	1.19	NA
Interleukin-5				2.59	2.15	NA
Interleukin-6				2.77	2.88	NA
Interleukin-7				5.26	5.22	NA
Interleukin-8				7.64	7.52	NA
Leukemia inhibitory factor	* * * *	***	***	0.8	0.92	NA
Leukemia inhibitory factor receptor				3.5	3.46	NA
Monocyte chemotactic protein 1				9.84	9.81	NA
Monocyte chemotactic protein 2				10.24	10.06	NA
Monocyte chemotactic protein 3				2.14	2.33	NA
Monocyte chemotactic protein 4				3.47	3.55	NA
Matrix metalloproteinase-1				7.14	6.96	NA
Matrix metalloproteinase-10				8.99	8.96	NA
Neurturin				1.41	1.24	NA
Neurotrophin-3				2.07	2.1	NA
Osteoprotegerin				9.87	9.69	NA
Oncostatin-M Programmed cell death 1 ligand 1				4.85	4.76 4.85	NA NA
Programmed cell death 1 ligand 1 Stem cell factor				4.98		
Stem cell factor SIR2-like protein 2				9.35 2.87	9.26 2.93	NA NA
SIR2-like protein 2 Signaling lymphocytic activation molecule				3.12	3.1	NA
Signaling lymphocytic activation molecule Sulfotransferase 1A1				3.12 1.94	3.1 2.07	NA NA
oundumberdae 171				2.63	2.63	NA NA
STAM-binding protein				4.16	3.87	NA NA
	·	ster ster ste	ste ste	4.16 8.15	3.87 8.01	NA NA
Transforming growth factor alpha	***			8.15 0.84	8.01 0.89	NA NA
Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1	***			U.84	0.89	NA NA
Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor					4	NA
Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta				4.18	4	
Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9				4.18 6.67	6.69	NA
Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14				4.18 6.67 4.86	6.69 4.69	NA NA
STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand				4.18 6.67 4.86 8.27	6.69 4.69 8.24	NA NA NA
Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine	*	***	***	4.18 6.67 4.86 8.27 5.43	6.69 4.69 8.24 5.65	NA NA NA
Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine Thymic stromal lymphopoietin		ste ste ste ste	ste ste ste ste	4.18 6.67 4.86 8.27 5.43 1.08	6.69 4.69 8.24 5.65	NA NA NA NA
Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNF-related apoptosis-inducing ligand TNF-related activation-induced cytokine	*	************************************	site site site site	4.18 6.67 4.86 8.27 5.43	6.69 4.69 8.24 5.65	NA NA NA

Table 36: Women table for biomarkers significance, medicine Livostin

Protein Adenosine Deaminase	No correction	Benjamini	Bonferroni	Avg Medicated	Avg Healthy 4.74	Image NA
Adenosine Deaminase Artemin	ske ske ske ske	ste ste ste ste	ste ste ste ste	5 0.03	4.74 0.08	NA NA
Axin-1				0.98	1.12	NA
Brain-derived neurotrophic factor				2.7	4.11	NA
Beta-nerve growth factor				2	1.89	NA
Caspase-8				1.21	1.4	NA
Eotaxin				7.68	7.85	NA
C-C motif chemokine 19				9.3	9.42	NA
C-C motif chemokine 20				6.66	6.05	NA
C-C motif chemokine 23				9.46	9.31	NA
C-C motif chemokine 25				6.41	6.07	NA
C-C motif chemokine 28				1.38	1.27	NA
C-C motif chemokine 3				2.3	2.2	NA
C-C motif chemokine 4				6.7	6.47	NA
Natural killer cell receptor 2B4	w			6.12	6.33	NA
CD40L receptor				9.19	9.17	NA
T-cell surface glycoprotein CD5				3.91	4	NA
T cell surface glycoprotein CD6 isoform				3.88	3.64	NA
CUB domain-containing protein 1				2.23	2.43	NA
Macrophage colony-stimulating factor 1				8.01	7.86	NA
Cystatin D				6.56	6.77	NA
Fractalkine				6.46	6.52	NA
C-X-C motif chemokine 1				8.92	8.9	NA
C-X-C motif chemokine 10				9.82	9.6	NA
C-X-C motif chemokine 11				7.55	7.3	NA
C-X-C motif chemokine 5				12.55	12.58	NA
C-X-C motif chemokine 6 C-X-C motif chemokine 9				9.22 7.73	9.16 7.21	NA NA
Delta and Notch-like epidermal growth factor-related receptor				7.73	7.21 7.29	NA NA
Eukaryotic translation initiation factor 4E-binding protein 1				4.83	5.68	NA NA
Protein S100-A12				4.89	5.08	NA NA
Fibroblast growth factor 19				8.67	8.01	NA
Fibroblast growth factor 21				3.29	3.14	NA
Fibroblast growth factor 23				2.72	2.72	NA
Fibroblast growth factor 5	*			1.36	1.49	NA
Fms-related tyrosine kinase 3 ligand				8.8	8.81	NA
Glial cell line-derived neurotrophic factor				1.98	2.21	NA
Hepatocyte growth factor				8.09	7.93	NA
Interferon gamma	***	***	***	0.99	1.02	NA
Interleukin-10				4.25	4.08	NA
Interleukin-10 receptor subunit alpha				2.16	1.39	NA
Interleukin-10 receptor subunit beta				7.33	7.44	NA
Interleukin-12 subunit beta				5.12	4.84	NA
Interleukin-13	w			1.55	1.63	NA
Interleukin-15 receptor subunit alpha				1.15	1.24	NA
Interleukin-17A				0.72	0.84	NA
Interleukin-17C				1.8	1.65	NA
Interleukin-18				7.41	6.96	NA
Interleukin-18 receptor 1	w			7.68	7.46	NA
Interleukin-1 alpha				3.71	1.84	NA
Interleukin-2	***	***	***	1.22	1.23	NA
Interleukin-20	*			0.79	0.87	NA
Interleukin-20 receptor subunit alpha	*			0.91	0.99	NA
Interleukin-22 receptor subunit alpha-1	* * * *	she she she	***	2.26	2.26	NA
Interleukin-24	***	***	***	1.34	1.41	NA
Interleukin-2 receptor subunit beta	***	***	***	0.85	0.9	NA
Interleukin-33	***	***	***	1.43	1.5	NA
Interleukin-4				1.55	1.19	NA
Interleukin-5	**	ŵ		1.76	2.15	NA
Interleukin-6				2.93	2.88	NA
Interleukin-7				5.58	5.22	NA
Interleukin-8	skr skr			7.8	7.52	NA
Leukemia inhibitory factor Leukemia inhibitory factor receptor				0.8 3.18	0.92 3.46	NA NA
				3.18 10.01	3.46 9.81	
Monocyte chemotactic protein 1 Monocyte chemotactic protein 2				10.01	10.06	NA NA
Monocyte chemotactic protein 2 Monocyte chemotactic protein 3				2.18	2.33	NA NA
Monocyte chemotactic protein 3 Monocyte chemotactic protein 4				3.36	3.55	NA NA
Matrix metalloproteinase-1				7.13	6.96	NA
Matrix metalloproteinase-10				9.24	8.96	NA
Neurturin	she she she	she she she	ste ste ste ste	1.12	1.24	NA
Neurotrophin-3				1.88	2.1	NA
Osteoprotegerin				9.97	9.69	NA
Oncostatin-M				5	4.76	NA
Programmed cell death 1 ligand 1				4.92	4.85	NA
Stem cell factor				8.92	9.26	NA
SIR2-like protein 2				2.56	2.93	NA
Signaling lymphocytic activation molecule	*			3.32	3.1	NA
Sulfotransferase 1A1				1.49	2.07	NA
STAM-binding protein				2.26	2.63	NA
Transforming growth factor alpha				3.75	3.87	NA
Latency-associated peptide transforming growth factor beta-1				8.11	8.01	NA
Tumor necrosis factor	w w	w		0.84	0.89	NA
TNF-beta				3.85	4	NA
Tumor necrosis factor receptor superfamily member 9				6.65	6.69	NA
Tumor necrosis factor ligand superfamily member 14				4.72	4.69	NA
TNF-related apoptosis-inducing ligand				8.15	8.24	NA
TNF-related activation-induced cytokine				4.99	5.65	NA
Thymic stromal lymphopoietin	***	***	***	1.08	1.1	NA
	1			8.7	8.96	NA
Tumor necrosis factor						
Tumor necrosis factor Urokinase-type plasminogen activator				9.61	9.96	NA

Table 37: Women table for biomarkers significance, medicine Ibux 600 mg

denosine Deaminase rtemin	No correction	Benjamini	Bonferroni	Avg Medicated	Avg Healthy	Imag
				4.56	4.74	NA
				0.05	0.08	NA
xin-1				1.59	1.12	NA
rain-derived neurotrophic factor	w			2.36	4.11	NA
eta-nerve growth factor				1.66	1.89	NA
aspase-8 otaxin				1.32	1.4	NA
				7.74	7.85	NA
-C motif chemokine 19 -C motif chemokine 20				9.25 6.1	9.42 6.05	NA NA
-C motif chemokine 23				9.58	9.31	NA
-C motif chemokine 25				5.71	6.07	NA
-C motif chemokine 28				1.04	1.27	NA
-C motif chemokine 3	w			2	2.2	NA
-C motif chemokine 4				6.32	6.47	NA
atural killer cell receptor 2B4				6.22	6.33	NA
D40L receptor				9.28	9.17	NA
cell surface glycoprotein CD5				4.02	4	NA
cell surface glycoprotein CD6 isoform				3.59	3.64	NA
UB domain-containing protein 1				2.32	2.43	NA
acrophage colony-stimulating factor 1				7.75	7.86	NA
ystatin D				6.53	6.77	NA
ractalkine				6.66	6.52	NA
-X-C motif chemokine 1				8.87	8.9	NA
-X-C motif chemokine 10				9.46	9.6	NA
X-C motif chemokine 11				7.14	7.3	NA
X-C motif chemokine 5				12.21	12.58	NA
-X-C motif chemokine 6				8.9	9.16	NA
-X-C motif chemokine 9				7.58	7.21	NA
elta and Notch-like epidermal growth factor-related receptor	w			6.99	7.29	NA
ıkaryotic translation initiation factor 4E-binding protein 1				5.85	5.68	NA
otein S100-A12				5.39	5.1	NA
broblast growth factor 19				8.18	8.01	NA
broblast growth factor 21				2.57	3.14	NA
broblast growth factor 23				2.57	2.72	NA
broblast growth factor 5				1.52	1.49	NA
ns-related tyrosine kinase 3 ligand				8.79	8.81	NA
lial cell line-derived neurotrophic factor				1.91	2.21	NA
epatocyte growth factor				7.93	7.93	NA
sterferon gamma	sk sk sk sk	ste ste ste ste	***	0.99	1.02	NA
sterleukin-10				3.88	4.08	NA
terleukin-10 receptor subunit alpha				0.98	1.39	NA
terleukin-10 receptor subunit beta				7.35	7.44	NA
terleukin-12 subunit beta	**			5.35	4.84	NA
terleukin-13	***	***	***	1.54	1.63	NA
terleukin-15 receptor subunit alpha				1.16	1.24	NA
sterleukin-17A				1.02	0.84	NA
terleukin-17C				1.51	1.65	NA
terleukin-18				6.9	6.96	NA
aterleukin-18 receptor 1				7.55	7.46	NA
terleukin-1 alpha				1.6	1.84	NA
terleukin-2	* * * *	***	***	1.22	1.23	NA
aterleukin-20	w			0.79	0.87	NA
aterleukin-20 receptor subunit alpha	w w w	skr skr	w	0.88	0.99	NA
terleukin-22 receptor subunit alpha-1	* * * *	***	***	2.26	2.26	NA
sterleukin-24	* * * *	***	***	1.34	1.41	NA
sterleukin-2-	w w	w		0.85	0.9	NA
sterleukin-33	***	***	***	1.43	1.5	NA
aterleukin-4				1.85	1.19	NA
terleukin-5				2.12	2.15	NA
aterleukin-6				2.12	2.15	NA
iterleukin-6	w			4.85	5.22	NA
aterleukin-7				7.31	7.52	NA
eukemia inhibitory factor	w			0.81	0.92	NA
eukemia inhibitory factor receptor				3.28	3.46	NA
onocyte chemotactic protein 1				9.69	9.81	NA
onocyte chemotactic protein 1				9.69	10.06	NA NA
onocyte chemotactic protein 2 onocyte chemotactic protein 3				2.15	2.33	NA NA
onocyte chemotactic protein 3 onocyte chemotactic protein 4				3.35	3.55	NA NA
				3.35 7	6.96	NA NA
atrix metalloproteinase-1 atrix metalloproteinase-10						
				9.37	8.96	NA NA
eurturin	ste ste	*		1.24	1.24	NA
eurotrophin-3	""	-		1.7	2.1	NA
steoprotegerin				9.52	9.69	NA
ncostatin-M				5.03	4.76	NA
ogrammed cell death 1 ligand 1				4.73	4.85	NA
rem cell factor				9.26	9.26	NA
R2-like protein 2				3.37	2.93	NA
gnaling lymphocytic activation molecule				3.03	3.1	NA
ulfotransferase 1A1				2.71	2.07	NA
FAM-binding protein				2.72	2.63	NA
				4	3.87	NA
ansforming growth factor alpha				7.97	8.01	NA
atency-associated peptide transforming growth factor beta-1	w w	w		0.84	0.89	NA
atency-associated peptide transforming growth factor beta-1 umor necrosis factor				4.3	4	NA
ntency-associated peptide transforming growth factor beta-1 nmor necrosis factor NF-beta					6.69	NA
ntency-associated peptide transforming growth factor beta-1 numor necrosis factor NF-beta numor necrosis factor receptor superfamily member 9				6.77		
ntency-associated peptide transforming growth factor beta-1 nmor necrosis factor NF-beta				5.08	4.69	NA
ntency-associated peptide transforming growth factor beta-1 numor necrosis factor NF-beta numor necrosis factor receptor superfamily member 9						NA NA
ntency-associated peptide transforming growth factor beta-1 umor necrosis factor NF-beta umor necrosis factor receptor superfamily member 9 umor necrosis factor ligand superfamily member 14				5.08	4.69	
ntency-associated peptide transforming growth factor beta-1 umor necrosis factor NF-beta umor necrosis factor receptor superfamily member 9 umor necrosis factor ligand superfamily member 14 NF-related apoptosis-inducing ligand	按查查查	***	***	5.08 8.06	4.69 8.24	NA
ntency-associated peptide transforming growth factor beta-1 umor necrosis factor NF-beta umor necrosis factor receptor superfamily member 9 umor necrosis factor ligand superfamily member 14 NF-related apoptosis-inducing ligand NF-related activation-induced cytokine	alor alor alor alor	****	ster ster ster	5.08 8.06 5.21	4.69 8.24 5.65	NA NA

 Table 38: Women table for biomarkers significance, medicine Depo-provera

Protein Character Characte	No correction	Benjamini	Bonferroni	Avg Medicated	Avg Healthy	Image
Adenosine Deaminase Artemin	she she she	ste ste ste ste	the the the the	4.86 0.03	4.74 0.08	NA NA
axin-1				1.04	1.12	NA NA
Brain-derived neurotrophic factor				3.4	4.11	NA
Beta-nerve growth factor				2.04	1.89	NA
Caspase-8	w			1.77	1.4	NA
Cotaxin				7.74	7.85	NA
C-C motif chemokine 19	*			9.09	9.42	NA
C-C motif chemokine 20				6.03	6.05	NA
C-C motif chemokine 23				9.39	9.31	NA
C-C motif chemokine 25				6.19	6.07	NA
C-C motif chemokine 28				1.46	1.27	NA
C-C motif chemokine 3				2.11	2.2	NA
C-C motif chemokine 4				6.5	6.47	NA
Natural killer cell receptor 2B4				6.39	6.33	NA
CD40L receptor				9.28	9.17	NA
C-cell surface glycoprotein CD5				3.9	4	NA
Cell surface glycoprotein CD6 isoform	ste			3.58	3.64	NA
CUB domain-containing protein 1	w			2.22	2.43	NA
Macrophage colony-stimulating factor 1				7.92	7.86	NA
Cystatin D				6.7	6.77	NA
Practalkine				6.49	6.52	NA
C-X-C motif chemokine 1 C-X-C motif chemokine 10	skr			8.7 9.01	8.9 9.6	NA NA
C-X-C motif chemokine 10	-			6.9	7.3	NA NA
C-X-C motif chemokine 5				12.55	12.58	NA NA
C-X-C motif chemokine 6				8.81	9.16	NA NA
C-X-C motif chemokine 9				7.07	7.21	NA NA
Delta and Notch-like epidermal growth factor-related receptor				7.21	7.29	NA
Eukaryotic translation initiation factor 4E-binding protein 1				5.78	5.68	NA
Protein S100-A12				5.22	5.1	NA
Sibroblast growth factor 19				8.76	8.01	NA
Sibroblast growth factor 21				2.64	3.14	NA
ibroblast growth factor 23				2.65	2.72	NA
Sibroblast growth factor 5				1.29	1.49	NA
ms-related tyrosine kinase 3 ligand				8.91	8.81	NA
Glial cell line-derived neurotrophic factor				2.3	2.21	NA
lepatocyte growth factor				7.95	7.93	NA
nterferon gamma	* * * *	skr skr skr skr	she she she	0.99	1.02	NA
nterleukin-10				4.05	4.08	NA
nterleukin-10 receptor subunit alpha				1.15	1.39	NA
nterleukin-10 receptor subunit beta				7.55	7.44	NA
nterleukin-12 subunit beta				4.77	4.84	NA
nterleukin-13	she she she she	she she she she	* * * *	1.54	1.63	NA
nterleukin-15 receptor subunit alpha				1.08	1.24	NA
nterleukin-17A				0.79	0.84	NA
nterleukin-17C				1.8	1.65	NA
nterleukin-18				7.02	6.96	NA
nterleukin-18 receptor 1				7.4	7.46	NA
nterleukin-1 alpha	sterate sterate	ste ste ste	ste ste ste ste	1.88	1.84	NA
nterleukin-2 nterleukin-20	*	www	***	1.22	1.23	NA
	**			0.77	0.87	NA
nterleukin-20 receptor subunit alpha	sterate sterate	ste ste ste ste	ster ster ster ste	0.93 2.26	0.99	NA NA
nterleukin-22 receptor subunit alpha-1 nterleukin-24	strate strate	***	de de de de	1.34	2.26 1.41	NA NA
	***	***	strate strate	0.85	0.9	NA NA
nterleukin-2 receptor subunit beta	strate strate	***	ste ste ste ste			NA
nterleukin-33 nterleukin-4				1.43 1.08	1.5 1.19	NA NA
nterleukin-4				3.62	2.15	NA
nterleukin-6				2.57	2.88	NA
nterleukin-7				5.02	5.22	NA
nterleukin-8				7.47	7.52	NA
eukemia inhibitory factor	ste ste ste ste	ste ste ste ste	ste ste ste	0.8	0.92	NA
eukemia inhibitory factor receptor				3.27	3.46	NA
Monocyte chemotactic protein 1				9.98	9.81	NA
Monocyte chemotactic protein 2				9.69	10.06	NA
Monocyte chemotactic protein 3	ste ste	w		1.98	2.33	NA
Monocyte chemotactic protein 4				3.28	3.55	NA
Matrix metalloproteinase-1				6.89	6.96	NA
Matrix metalloproteinase-10				8.92	8.96	NA
Veurturin				2.29	1.24	NA
Veurotrophin-3				1.96	2.1	NA
Osteoprotegerin				9.64	9.69	NA
				4.72	4.76	NA
Oncostatin-M				4.74	4.85	NA
Oncostatin-M Programmed cell death 1 ligand 1						NA
Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor				9.23	9.26	
Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2				2.83	2.93	NA
Oncostatin-M programmed cell death 1 ligand 1 stem cell factor ilR2-like protein 2 signaling lymphocytic activation molecule	ster ster ste	skr skr	ŵ	2.83 2.88	2.93 3.1	NA
Oncostatin-M Programmed cell death 1 ligand 1 item cell factor BiR2-like protein 2 itignaling lymphocytic activation molecule sulfotransferase 1A1	**	ster ster	ŵ	2.83 2.88 2.66	2.93 3.1 2.07	NA NA
Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor Stiff of the protein 2 Stignaling lymphocytic activation molecule Stuffotransferase 1A1 STAM-binding protein	str str str	ste ste	ŵ	2.83 2.88 2.66 2.59	2.93 3.1 2.07 2.63	NA NA NA
Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor EIR2-like protein 2 Signaling lymphocytic activation molecule Stulfotransferase 1A1 STAM-binding protein Pransforming growth factor alpha	收收收	W W	w	2.83 2.88 2.66 2.59 4.12	2.93 3.1 2.07 2.63 3.87	NA NA NA
Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor IRR2-like protein 2 Signaling lymphocytic activation molecule Sulfornansferase 1A1 TAM-binding protein Transforming growth factor alpha Statency-associated peptide transforming growth factor beta-1		w w	w.	2.83 2.88 2.66 2.59 4.12 8.17	2.93 3.1 2.07 2.63 3.87 8.01	NA NA NA NA
Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SiR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Cransforming growth factor alpha Satency-associated peptide transforming growth factor beta-1 Cumor necrosis factor	de de de	ofer ofer ofer	ŵ	2.83 2.88 2.66 2.59 4.12 8.17 0.83	2.93 3.1 2.07 2.63 3.87 8.01 0.89	NA NA NA NA NA
Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta		**	*	2.83 2.88 2.66 2.59 4.12 8.17 0.83 3.53	2.93 3.1 2.07 2.63 3.87 8.01 0.89	NA NA NA NA NA NA
Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulforansferase 1A1 STAM-binding protein Fransforming growth factor alpha Satency-associated peptide transforming growth factor beta-1 Sumor necrosis factor TNP-beta Sumor necrosis factor		**	*	2.83 2.88 2.66 2.59 4.12 8.17 0.83 3.53 6.71	2.93 3.1 2.07 2.63 3.87 8.01 0.89 4 6.69	NA NA NA NA NA NA NA NA
Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor IRR2-like protein 2 Signaling lymphocytic activation molecule Sulfortansferase 1A1 TAM-binding protein Transforming growth factor alpha Statency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNF-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor receptor superfamily member 9		www.	ŵ	2.83 2.88 2.66 2.59 4.12 8.17 0.83 3.53 6.71 4.71	2.93 3.1 2.07 2.63 3.87 8.01 0.89 4 6.69 4.69	NA
Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SiR2-like protein 2 Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Pransforming growth factor alpha Satency-associated peptide transforming growth factor beta-1 Cumor necrosis factor NF-beta Cumor necrosis factor receptor superfamily member 9 Cumor necrosis factor ligand superfamily member 14 CNF-related apoptosis-inducing ligand		***	*	2.83 2.88 2.66 2.59 4.12 8.17 0.83 3.53 6.71 4.71 8.07	2.93 3.1 2.07 2.63 3.87 8.01 0.89 4 6.69 4.69 8.24	NA
Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Fransforming growth factor alpha Satency-associated peptide transforming growth factor beta-1 Sumor necrosis factor SNF-beta Sumor necrosis factor receptor superfamily member 9 Sumor necrosis factor ligand superfamily member 14 SNF-related apoptosis-inducing ligand SNF-related activation-induced cytokine	w-w	w	*	2.83 2.88 2.66 2.59 4.12 8.17 0.83 3.53 6.71 4.71 8.07 5.7	2.93 3.1 2.07 2.63 3.87 8.01 0.89 4 6.69 4.69 8.24 5.65	NA
Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor SIR2-like protein 2 Signaling lymphocytic activation molecule Sulforansferase 1A1 TTAM-binding protein Transforming growth factor alpha Latency-associated peptide transforming growth factor beta-1 Tumor necrosis factor TNP-beta Tumor necrosis factor receptor superfamily member 9 Tumor necrosis factor ligand superfamily member 14 TNP-related apoptosis-inducing ligand TNP-related activation-induced cytokine Thymic stromal lymphopoietin		all	*****	2.83 2.88 2.66 2.59 4.12 8.17 0.83 3.53 6.71 4.71 8.07 5.7	2.93 3.1 2.07 2.63 3.87 8.01 0.89 4 6.69 4.69 8.24 5.65 1.1	NA N
Oncostatin-M Programmed cell death 1 ligand 1 Stem cell factor Signaling lymphocytic activation molecule Sulfotransferase 1A1 STAM-binding protein Fransforming growth factor alpha Satency-associated peptide transforming growth factor beta-1 Sumor necrosis factor SNF-beta Sumor necrosis factor receptor superfamily member 9 Sumor necrosis factor ligand superfamily member 14 SNF-related apoptosis-inducing ligand SNF-related activation-induced cytokine	w-w	w	de de de de de	2.83 2.88 2.66 2.59 4.12 8.17 0.83 3.53 6.71 4.71 8.07 5.7	2.93 3.1 2.07 2.63 3.87 8.01 0.89 4 6.69 4.69 8.24 5.65	NA N

Table 39: Women table for biomarkers significance, medicine Bricanyl

2 Images

3 Change History

This section helps keeping track of all the changes done in the document.

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Nothing yet.