**Supplementary Table 1. Biomarkers for autoimmune diseases (ADs)**

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| **Disease name** | **Diagnosis method** | **Biomarkers** |
| **Systemic and connective tissue** |
| Systemic Lupus Erythematosus (SLE) | * SELENA-SLEDAI: Safety of Estrogens in Lupus Erythematosus National Assessment (SELENA)-Systemic Lupus Erythematosus Disease Activity Index (SLEDAI)
* British Isles Lupus Activity Group (BILAG)
* Systemic Lupus International Collaborating Clinics (SLICC) criteria[1](#_ENREF_1)
 | Antibodies:* Anti-Ribonuclease H2 (RNase H2)[2](#_ENREF_2)
* Anti-proliferating cell nuclear antigen protein (PCNA)
* Anti-double stranded DNA (dsDNA)
* Anti-nuclear antibody (ANA)
* Anti-U1A, anti-U2B
* Anti-aldolase A[3](#_ENREF_3): SLE associated with nephritis
* Anti-ezrin[4](#_ENREF_4) and anti-annexin A2[4](#_ENREF_4), [5](#_ENREF_5): SLE with proliferative lupus nephritis complication
* Anti-Smith
 |
| Cytokines:* Type I interferon (IFN) signature
* Interleukin 12, 17, 18[6](#_ENREF_6), [7](#_ENREF_7)
* IL-18/IL-4 ratio[7](#_ENREF_7)
 |
| Other candidate biomarkers[8](#_ENREF_8):* Apolipoprotein CIII[9](#_ENREF_9): SLE with lupus nephritis complication
* Serotransferrin[10](#_ENREF_10): correlates with SLE disease activity
* sTNF-R2
 |
| Sjögren’s syndrome (SS) | * European League Against Rheumatism (EULAR) SS disease activity index (ESSDAI) scores
* EULAR Sjögren’s syndrome patient reported index (ESSPRI)
* SS disease damage index (SSDDI)
* Schirmer test
* Salivary gland scintigraphy
 | Antibodies:* Anti-nuclear antibody (ANA) as validation instead of screening
* Anti-Sjögren's syndrome-related antigen A [SS-A (Ro)]
* Anti- Sjögren's syndrome-related antigen B [SS-B (La)]
* Anti-salivary gland protein 1 (SP-1), anti-carbonic anhydrase 6 (CA6) and anti-parotid secretory protein (PSP[11](#_ENREF_11)): for early identification of primary SS
* IgM rheumatic factor (anti-IgG Fc)
 |
| Cytokines:* Type I IFN signature, e.g. MxA[12](#_ENREF_12" \o "Maria, 2014 #1231) at cutoff 100 μg/L
* CXCL13, TNF-R2, and CD48[13](#_ENREF_13)
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| **Disease name** | **Diagnosis method** | **Biomarkers** |
| **Skin** |
| Scleroderma (systemic sclerosis, SSc) | * Semi-quantitative assessment of skin thickness (modified Rodnan skin score [mRSS])
 | Antibodies:* Anticentromere (ACA)[14](#_ENREF_14): related to limited SSc (CREST syndrome), observed more in older female caucasians[15](#_ENREF_15" \o "Steen, 2005 #10)
* Anti-Scl-70 or anti-topoisomerase (TOPO)[16](#_ENREF_16): related to diffuse SSc and pulmonary fibrosis, observed more in African-American patients[15](#_ENREF_15)
* Anti-RNA Polymerase III (Pol 3)[16](#_ENREF_16): associated with diffuse SSc and renal crisis[15](#_ENREF_15)
* Anti-Th/To (Th/To)[16](#_ENREF_16): associated with limited SSc
* Anti-fibrillarin or anti-U3-RNP (U3- RNP), anti-U1-RNP (U1-RNP): associated with diffuse SSc, observed more in African-American patients[15](#_ENREF_15)
* Anti-PM/Scl (PM/Scl): associated with polymyositis and SSc[14](#_ENREF_14" \o "Ho, 2003 #1)

Cytokines:* Soluble IL2 receptor (srIL-2)[17](#_ENREF_17), [18](#_ENREF_18)
* CXCL4: correlated with skin, lung fibrosis and pulmonary arterial hypertension; predicts SSc risk and progression[19](#_ENREF_19)

Organ specific:* Vascular, fibrosis, pulmonary hypertension and pulmonary fibrosis: Please refer to [20](#_ENREF_20), [21](#_ENREF_21)
 |
| Psoriasis | * Psoriasis Area Severity Index (PASI) score
 | Cytokines:* IL17A and IL17F[22](#_ENREF_22)
* TNF- α, IFN-γ, IL-6, IL-8, IL-12 and IL-18[23](#_ENREF_23)
* IL22[24](#_ENREF_24)

Other candidate biomarkers:* Desmoplakin, complement C3, polymeric immunoglobulin receptor, and cytokeratin 17: correlated with PASI[25](#_ENREF_25)
* Galectin 3 binding protein (G3BP)[26](#_ENREF_26)
* Cytoskeletal, calcium-binding proteins and their peptides: thymosin β4, talin 1, actin γ, filamin, prolifin, cytoskeletal, calgranulins A and B[27](#_ENREF_27)
* C-reactive protein (CRP), platelet P-selectin[28](#_ENREF_28), haptoglobin, complement component 3 (C3), and C4[29](#_ENREF_29)
* Serum leptin, resistin and lipocalin[30](#_ENREF_30)
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| **Disease name** | **Diagnosis method** | **Biomarkers** |
| **Pulmonary** |
| Idiopathic pulmonary fibrosis (IPF) | * Official ATS/ERS/JRS/ALAT Statement: Idiopathic Pulmonary Fibrosis guidelines[31](#_ENREF_31)
 | Cytokine:* IL-8[32](#_ENREF_32), [33](#_ENREF_33): worse prognosis (>7.2 pg/ml)
* CXCL13

Other candidate biomarkers:* Krebs von den Lungen-6 Antigen (KL-6)[34](#_ENREF_34):

>1000 U/ml for worse prognosis; >1300 U/ml increased risk of acute exacerbation* Surfactant proteins A (SP-A) and D (SP-D)[35-37](#_ENREF_35)
* Matrix Metalloproteinase-1 (MMP1) and MMP7[38-41](#_ENREF_38)
 |
|  **Hematopoetic and vascular** |
| Antiphospholipid syndrome | * One clinical criteria (Vacular thrombosis or Pregnancy morbidity) and
* One laboratory criteria (LA, aCL and/or anti-β2GPI)[42](#_ENREF_42)
 | Antibodies:* Lupus anticoagulant (LAC)[43](#_ENREF_43)
* Anticardiolipin (aCL)[44](#_ENREF_44)
* Anti-β2 glycoprotein-I (anti-β2GPI )[45](#_ENREF_45)
* Anti-phosphatidylserine/prothrombin (aPS/PT)[46](#_ENREF_46)
 |
| Immune thrombocytopenic purpura (ITP) | * Review of peripheral smear and evaluation of history and examination of the patient[47](#_ENREF_47)
 | Antibodies:* Glycoprotein (GP) specific autoantibodies (e.g., GPVI, GPIb/IX, GPIIb/IIIa autoantibodies)[48](#_ENREF_48), [49](#_ENREF_49)
* Anti-ADAMTS13

Ctyokines:* B-lymphocyte activating factor (BAFF)[50](#_ENREF_50)
* A proliferation-inducing ligand (APRIL)[51](#_ENREF_51)
* CXCL10[52](#_ENREF_52)
* CX3CL1 and IL-22: in pediatric ITP[53](#_ENREF_53)
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| **Disease name** | **Diagnosis method** | **Biomarkers** |
| **Endocrine** |
| Grave’s disease | * Combination of eye signs, goiter, and any of the characteristic symptoms and signs of hyperthyroidism[54](#_ENREF_54)
 | Antibodies:* Anti-thyroid antigens: thyroglobulin, thyroid peroxidase, sodium-iodide symporter and the thyrotropin receptor, thyroid-stimulating hormone receptor, thyroid-Stimulating Immunoglobulin (TSIg), thyrotropin Binding Inhibitory Immunoglobulins (TBII)[55](#_ENREF_55), [56](#_ENREF_56)
* Anti-immunoglobulin G4[57](#_ENREF_57)

Cytokines:* B-lymphocyte activating factor (BAFF)[58](#_ENREF_58)
* CCL20[59](#_ENREF_59)
* IL4, IL6, IL10[60](#_ENREF_60)
* IP-10 (CXCL10/interferon-γ-inducible protein 10)[61](#_ENREF_61)
* Soluble CD28[62](#_ENREF_62)
* Interleukin 33 (IL33)[63](#_ENREF_63)

Other candidate biomarkers:* Endothelin-1[64](#_ENREF_64)
 |
| Hashimoto’s thyroiditis | * Demonstration of circulating antibodies to thyroid antigens (mainly thyroperoxidase and thyroglobulin) and reduced echogenicity on thyroid sonogram in a patient with proper clinical features[65](#_ENREF_65), [66](#_ENREF_66)
 | Antibodies:* Anti-thyroid antigens: thyroglobulin, thyroid peroxidase[56](#_ENREF_56)
* Anti-immunoglobulin G4[67](#_ENREF_67)

Cytokines:* B-lymphocyte activating factor (BAFF)
* IP-10 (CXCL10/interferon-γ-inducible protein 10)[61](#_ENREF_61)
* Reduced IL35[68](#_ENREF_68)

Other candidate biomarkers:* Endothelin-1[64](#_ENREF_64)
* Parathyroid hormone[69](#_ENREF_69)
 |
| Type 1 diabetes (adult\*) | * Diagnosis and Classification of Diabetes Mellitus Report criteria[70](#_ENREF_70), [71](#_ENREF_71)
 | Antibodies:* Anti-islet cells (ICA): islet cell antibody 512 (ICA512)
* Anti-tyrosine phosphatases IA-2 and IA-2β[72](#_ENREF_72), [73](#_ENREF_73)
* Anti-insulin (IAA)
* Anti-glutamic acid decarboxylase (GAD65)[72](#_ENREF_72)
* Anti-Zinc transporter 8 (ZnT8A)[74](#_ENREF_74): used in combination with anti-GAD, anti-IA2 and IAA to detect 98% of T1D autoimmune reactive indivicuals[75](#_ENREF_75" \o "Yu, 2012 #1582)
* Antiaminoacyl-tRNA synthetase (aaRS)[76](#_ENREF_76)

Cytokines:* Chemokine ligand 1 (CXCL1)[77](#_ENREF_77)

Other candidate biomarkers:* Serum amyloid protein A (SAA) and C-reactive protein (CRP), as well as adiponectin and insulin-like growth factor binding protein 2[78](#_ENREF_78)
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| **Disease name** | **Diagnosis method** | **Biomarkers** |
| **Gastro-intestinal and liver** |
| Primary biliary cholangitis | * Two of the following three criteria are satisfied[79](#_ENREF_79), [80](#_ENREF_80):
1. Anti-mitochondrial antibodies (AMA) titer > 1:40;
2. Alkaline phosphatase (AP) > 1.5 the normal upper limit for > 24wks
3. Liver histology showing nonsuppurative destructive cholangitis and interlobular bile duct destruction
 | Antibodies:* Anti-mitochondrial antibodies (AMA) targeting the 2-oxo-acid dehydrogenase complexes[81](#_ENREF_81)
* Antinuclear antibodies (ANA) targeting dsDNA, Sm, chromatin, ribosomal-P, RNP, SmRNP, SSA, SSB, and centromere)[82](#_ENREF_82)
	+ Anti-promyelocytic leukemia protein (PML) nuclear body (NB): anti-Sp140, anti-Sp100 and anti-PML antibodies[83](#_ENREF_83)
* Thrombophilia-associated autoantibodies (i.e. anti-beta2GPI, phosphatydilserine, prothrombin)[82](#_ENREF_82)

Cytokines:* IL18[84](#_ENREF_84)
* TNF-α[85](#_ENREF_85)
* IFN-γ and IL-5[86](#_ENREF_86)
 |
| Autoimmune hepatitis type I | * Scoring system based on a combination of clinical, serological, and histological criteria[87](#_ENREF_87)
 | Antibodies[88](#_ENREF_88):* Anti-smooth muscle antibodies (SMA):[89-91](#_ENREF_89)
	+ Anti-filamentous actin antibodies (A-FAA)[90](#_ENREF_90)
	+ Anti-intermediate filaments (vimentim, desmin, Skeltin)
* Anti-nuclear antibodies (ANA): e.g. antibodies to histones, double stranded RNA, chromatin, ribonucleoproteins, ribonucleoprotein complexes[89](#_ENREF_89), [91](#_ENREF_91), [92](#_ENREF_92)
* Atypical perinuclear anti-neutrophil cytoplasmic antibodies (pANCA)[93](#_ENREF_93)
* Autoantibodies to asialoglycoprotein receptor[89](#_ENREF_89): for seronegative ANA/SMA
* Anti-soluble liver antigen (SLA), anti-soluble liver pancreas (SLP)[92](#_ENREF_92): for seronegative ANA/SMA

Other candidate biomarkers:* Complement (C3) and alpha-2-macroglobulin (A2M)[94](#_ENREF_94)
* Adiponectin[95](#_ENREF_95)
* Gamma globulin[87](#_ENREF_87)
 |
| Ulcerative colitis  | * Endoscopy, followed by confirmatory biopsy specimens[96](#_ENREF_96)
* The Modified Mayo Endoscopic Score (MMES)[97](#_ENREF_97)
* Ulcerative Colitis Endoscopic Index of Severity (UCEIS)[98](#_ENREF_98)
 | Antibodies:* Antineutrophil cytoplasmic antibodies (ANCAs)[99](#_ENREF_99), [100](#_ENREF_100)
* Serum anti-p53 antibodies (p53Abs)[101](#_ENREF_101)

Cytokines:* IL-23[102](#_ENREF_102), IL-8[103](#_ENREF_103)
* Soluble ST2 (sST2)[104](#_ENREF_104)

Other candidate biomarkers:* Leucine-rich alpha-2 glycoprotein (LRG)[105](#_ENREF_105)
* Alpha -1 antitrypsin (AAT) and granulocyte colony-stimulating factor (G-CSF)[106](#_ENREF_106)
* Serum C-reactive protein (CRP)[107](#_ENREF_107), [108](#_ENREF_108)
* Serum Human Trefoil Factor 3[109](#_ENREF_109)
 |
| Crohn’s disease  | * Crohn’s Disease Activity Index (CDAI)[110](#_ENREF_110), [111](#_ENREF_111)
* Combination of endoscopic, histological, radiological, and/or biochemical investigations[112](#_ENREF_112)
 | Antibodies:* Anti-Saccharomyces cerevisiae antibody (ASCA IgA)[113](#_ENREF_113)
* Anti-laminaribioside (ALCA), anti-mannobioside (AMCA) and anti-chitobioside (ACCA) antibodies [114](#_ENREF_114)
* Anti-synthetic mannoside antibodies (AΣMA)[115](#_ENREF_115)
* anti-OmpC, or anti-I2[116](#_ENREF_116)

Cytokines:* **TNF-α , IL-12P40\* ,** EGF, FGF2, eotaxin-1, IFN-α2, MDC (CCL22), IL-13, IL-5, IL-1α, MCP-1, MIP-1α, and VEGF[117](#_ENREF_117)

*\* Markers used as therapeutic agents in clinics*Other candidate biomarkers:* Serum calprotectin[118](#_ENREF_118)
* YKL-40, also known as Chitinase-3-like protein 1 (CHI3L1)[119](#_ENREF_119)
 |
| Coeliac disease (adult\*) | * Serologic testing of celiac-specific antibodies and histopathologic examination of duodenal mucosal biopsy on a gluten-containing diet[120](#_ENREF_120), [121](#_ENREF_121) [122](#_ENREF_122)
 | Antibodies:* Antihuman tissue transglutaminase (anti-tTG)[123](#_ENREF_123)
* Endomysium antibody (EMA)[124-126](#_ENREF_124)
* Deamidated gliadin peptides (DGP) antibodies[127](#_ENREF_127)
* Anti-gliadin[55](#_ENREF_55)

Cytokines:* Th-1, Th-2 and primarily APC derived cytokines[128](#_ENREF_128)

Other candidate biomarkers:* Intestinal-fatty acid binding protein (I-FABP)[129](#_ENREF_129)
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| **Disease name** | **Diagnosis method** | **Biomarkers** |
| **Musculoskeletal** |
| Ankylosing spondylitis | * Test for HLA-B27
* Inflammation imaging by MRI
* Erythrocyte sedimentation rate (ESR)
* X-ray
* Bath Ankylosing Spondylitis Disease Activity Index (BASDAI)[130](#_ENREF_130)
* Bath ankylosing spondylitis functional index (BASFI)[131](#_ENREF_131)
* AS Disease Activity Score (ASDAS)[132](#_ENREF_132)
* ASsessment in Ankylosing Spondylitis International Working Group criteria [ASAS20]
 | Antibodies:* Anti-CD74[133](#_ENREF_133), [134](#_ENREF_134)
* Anti-cxtracellular matrix proteins (connective tissue growth factor, glypican 3 and 4, matrix Gla protein, secreted modular calcium-binding protein 1 or SMOC1)[135](#_ENREF_135)
* Anti- Bone remodeling factors (chondromodulin, purinergic receptor P2RX7, melanocortin 4 receptor, osteoglycin, osteonectin)[135](#_ENREF_135)
* Anti- Protein phosphatase magnesium-dependent 1A (PPM1A)[136](#_ENREF_136)

Cytokines:* IL23
* IL1[137](#_ENREF_137)
* IL6[138](#_ENREF_138), [139](#_ENREF_139)
* IL17[140](#_ENREF_140)
* TNF alpha[141-145](#_ENREF_141)

Other candidate biomarkers:* and ERAP1
* Vascular endothelial growth factors (VEGF)[137](#_ENREF_137), [138](#_ENREF_138)
* C-reactive protein (CRP)[137](#_ENREF_137), [146](#_ENREF_146)
* Matrix metallo protein (MMP-3)[139](#_ENREF_139)
* Phosphodiesterase 4[147](#_ENREF_147)
* Intracellular adhesion molecule (ICAM-1), Vascular cell adhesion molecule (VCAM-1)[137](#_ENREF_137)
 |
| Rheumatoid arthritis  | * Disease Activity Score (DAS) 28 and erythrocyte sedimentation rate (ESR)[148](#_ENREF_148)
* 2010 rheumatoid arthritis classification criteria[149](#_ENREF_149)
* Patient Activity Scale (PAS) or PASII[150](#_ENREF_150)
* Routine Assessment of Patient Index Data (RAPID3)[151](#_ENREF_151)
* Clinical Disease Activity Index (CDAI)
* Simplified Disease Activity Index (SDAI)[152](#_ENREF_152) and
* Others[153](#_ENREF_153)
 | Antibodies:* Anti–cyclic citrullinated peptide antibodies IgG isotype (IgG anti-CCP)[154](#_ENREF_154)
* Antinuclear antibody (ANA)[154](#_ENREF_154)
* Anti-CD26 isotypes[155](#_ENREF_155)
* Immunoglobulin M rheumatoid factor (IgM-RF)[156](#_ENREF_156)
* Anti-collagen II[55](#_ENREF_55)

Cytokines:* IL-6[154](#_ENREF_154), [157](#_ENREF_157)
* TNF-alpha[154](#_ENREF_154)
* Serum 14-3-3η[158](#_ENREF_158)

Other candidate biomarkers:* Calcium binding proteins (Calgranulin A, B and C)[159](#_ENREF_159)
* C-reactive protein[154](#_ENREF_154), [159](#_ENREF_159)
* Thymosin beta 4[160](#_ENREF_160), actin, tubulin, vimentin[159](#_ENREF_159)
* Survivin[157](#_ENREF_157" \o "Shi, 2017 #4)
* Calprotectin[161](#_ENREF_161)
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| Psoriatic arthritis | * Bath Ankylosing Spondylitis Disease Activity Score (BASDAI)[130](#_ENREF_130)
* Modified American College of Rheumatology (ACR20) response criteria
* Psoriasis Area and Severity Index (PASI)
 | Antibodies:* Anti-agalactosyl IgG[162](#_ENREF_162)
* Antibodies against citrullinated proteins/peptides (ACPA) especially anti-mutated citrullinated vimentin (anti-MCVs)[163](#_ENREF_163)
* Anti-cyclic citrullinated peptide antibodies (anti-CCP)[164](#_ENREF_164)

Cytokines:* IL2, IL10 24, 25
* IL6[165](#_ENREF_165)
* C-reactive protein[165](#_ENREF_165), [166](#_ENREF_166)
* Soluble interleukin-2 receptor alpha (IL-2Rα 42)[165](#_ENREF_165)
* CD5-like protein (CD5L)[167](#_ENREF_167)
* Plasma YKL-40[168](#_ENREF_168)

Other candidate biomarkers:* Osteoprotegerin[166](#_ENREF_166" \o "Chandran, 2010 #1)
* Matrix metalloproteinase 3 (MMP-3)[166](#_ENREF_166)
* C-propeptide of Type II collagen (CPII) to collagen fragment neoepitopes Col2-3/4(long mono)(C2C) ratio [CPII:C2C ratio][166](#_ENREF_166)
* Dkk-1 and M-CSF[169](#_ENREF_169)
* Integrin-beta 5 (ITGB5)[167](#_ENREF_167)
* Mac-2-binding protein (M2BP)[167](#_ENREF_167)
* Myeloperoxidase (MPO)[167](#_ENREF_167)
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| **Disease name** | **Diagnosis method** | **Biomarkers** |
| **Neurological** |
| Multiple sclerosis | * The 2010 revisions to the McDonald Criteria[170](#_ENREF_170)
* Kurtzke Expanded Disability Status Scale (EDSS)[171](#_ENREF_171)
* MS Severity Scale (MSSS)
* MS Functional Composite (MSFC)
 | Antibodies[172](#_ENREF_172):* IgM antibodies against Glc(alpha1,4)Glc(alpha) (GAGA4): in relapsing remitting multiple sclerosis (RRMS)[173](#_ENREF_173)
* Autoantibodies against paranodal and axonal proteins (e.g. anti-Neurofascin155 and anti-contactin2)[174](#_ENREF_174)
* Autoantibodies against oligodendrocytic and astrocytic proteins (e.g anti- inward-rectifying glial potassium channel KIR4.1)[175](#_ENREF_175)
* Autoantibodies against myelin proteins and heat shock proteins (HSPs) (e.g. Proteolipid protein – PLP, and HSP70)[176](#_ENREF_176)
* Anti- myelin oligodendrocyte glycoprotein (anti-MOG)
* Anti-proteolipid protein

Cytokines[177](#_ENREF_177):* IL23[178](#_ENREF_178)
* CXCR3
* IFN‑γ and IL6, IL12 and IL4 levels: higher in RRMS patients[179](#_ENREF_179)
* TNFα, IL10 and IL17: lower in active RRMS vs inactive RRMS
* IL2, IL13[180](#_ENREF_180)

Other candidate biomarkers:* Combination of HGF, Eotaxin/CCL11, EGF and MIP-1β/CCL4: for discriminating a dichotomous RR-MS versus progressive form (SPMS – secondary progressive MS and PPMS – primary progressive MS)[181](#_ENREF_181)
* Pentosidine: advanced glycation endproducts (AGEs) as inflammatory biomarker in MS[182](#_ENREF_182)
* Pentraxin3 (PTX3)[183](#_ENREF_183)
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| Myasthenia gravis | * Myasthenia gravis: Association of British Neurologists’ management guidelines[184](#_ENREF_184)
 | Antibodies[185](#_ENREF_185):* Anti–acetylcholine receptor (anti-AChR)[186](#_ENREF_186)
* Anti-muscle specific kinase (anti-MuSK)[186](#_ENREF_186)
* Anti-low-density lipoprotein receptor-related protein 4 (anti-LRP4)[185](#_ENREF_185)
* Anti-agrin[187](#_ENREF_187), [188](#_ENREF_188), anti-titin[189](#_ENREF_189)
* Anti-KV1.4[190](#_ENREF_190)
* Anti-ryanodine receptors[191](#_ENREF_191)
* Anti-collagen Q[192](#_ENREF_192), Anti-cortactin[193](#_ENREF_193)

Cytokines:* Resistin[194](#_ENREF_194)
* CXC chemokine ligand 13 (CXCL13): associated with thymic lymphoid hyperplasia[195](#_ENREF_195)

Other candidate biomarkers:* Matrix metalloproteinase 10 (MMP-10)[196](#_ENREF_196)
* C-X-C motif ligand 1 (CXCL1)[196](#_ENREF_196)
* Brain derived neurotrophic factor (BDNF)[196](#_ENREF_196)
* Transforming growth factor alpha (TGF-α)[196](#_ENREF_196)
 |
| Guillain Barré syndrome | * Diagnostic criteria for GBS[197](#_ENREF_197), [198](#_ENREF_198)
* Brighton Collaboration new case definitions for GBS[199](#_ENREF_199)
* Lumbar puncture and nerve conduction studies[198](#_ENREF_198)
* GBS Disability Scale[200](#_ENREF_200)
* The Rasch-built Overall Disability Scale[201](#_ENREF_201)
* Medical Research Council (MRC) sum score
* The new Rasch-built MRC score to measure muscle[202](#_ENREF_202) strength[203](#_ENREF_203)
 | Antibodies[198](#_ENREF_198):* Anti-peripheral myelin proteins (PMP22[204](#_ENREF_204), P214–25,[205](#_ENREF_205))
* Anti-GA1, anti-ganglioside GM1a, GM1b, GD1a, GalNAc-GD1a: to detect acute motor axonal neuropathy (AMAN)
* Anti-GM1, anti-GD1a: to detect acute motor sensory axonal neuropathy (AMSAN)
* Anti-GT1a: to detect pharyngeal–cervical brachial variant
* Anti-GQ1b (to detect Miller Fisher)[206](#_ENREF_206) and GT1a: to detect acute oropharyngeal palsy[207](#_ENREF_207)

Cytokines[208](#_ENREF_208):* IFN-γ, TNF-α[208](#_ENREF_208)
* IL-17A and IL-22[209](#_ENREF_209)
* IL-12, IL-12R1[210](#_ENREF_210): elevated in acute inflammatory demyelinating polyneuropathy (AIDP)
* CCL2[211](#_ENREF_211)

Other candidate biomarkers:* C-reactive protein (CRP)[212](#_ENREF_212)
* Serum albumin[213](#_ENREF_213)
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