

## Seznam činností v rámci flexibilního rozsahu akreditace

**Název subjektu:** GHC GENETICS, s.r.o.

**Název objektu:** Laboratoř GHC GENETICS

**Číslo akreditovaného objektu:** 8124

**Osvědčení o akreditaci č.:** 670/2023

**Oblast akreditace:** Zdravotnická laboratoř - ČSN EN ISO 15189 ed. 2:2013

**Aktualizováno dne:** 15. 12. 2023

### Vyšetření:

| Poř. číslo                               | Analyt / parametr/diagnostika              | Princip vyšetření                      | Identifikace postupu/ přístrojové vybavení  | Vyšetřovaný materiál   | Stupně volnosti <sup>1</sup> |
|--|--|--|---|--|------------------------------|
| <b>802- Lékařská mikrobiologie</b>       |  |  |   |  |                              |
| 1.                                       | Průkaz nukleových kyselin infekčních agens | Real-Time PCR                          | SOP-706, verze 1;<br>SOP-708, verze 1;<br>PP-031, verze 1;<br>PP-032, verze 1;<br>PP-050, verze 1;<br>Agilent Bravo;<br>CFX Real Time PCR;<br>CFX Opus 384 Real Time PCR;<br>Light Cyclor 480 | Výtěr z krku, uretrální stěr, cervikální stěr, rektální stěr, nazofaryngeální stěr, orofaryngeální stěr, sliny | -                            |
| 2.                                       | Markery HIV                                | Imunoanalýza s luminometrickou detekcí | SOP-710, verze 1;<br>PP-052, verze 1;<br>Cobas e411   | Sérum, plazma  | -                            |
| 3.                                       | Protilátky proti infekčnímu agens          | Imunoanalýza s luminometrickou detekcí | SOP-710, verze 1;<br>PP-052, verze 1;<br>Cobas e411   | Sérum, plazma  | -                            |
| 4.                                       | Antigeny infekčních agens                  | Imunoanalýza s luminometrickou detekcí | SOP-710, verze 1;<br>PP-052, verze 1;<br>Cobas e411   | Sérum, plazma  | -                            |
| 5.                                       | Reaginový test (RPR)                       | Aglutinace                             | SOP-463, verze 1  | Sérum, plazma  | -                            |
| <b>816 - Laboratoř lékařské genetiky</b> |  |  |   |  |                              |

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|------------|---------------------------------------|----------------------------|--|---|------------------------------|
| 1.         | Vyšetření germinálního genomu         | HRM                        | SOP-316, verze 4;<br>Light Cyclers 480   | Biologický materiál obsahující nukleovou kyselinu | A, B, C                      |
| 2.         | Vyšetření germinálního genomu         | Real-Time PCR              | SOP-701, verze 3;<br>PP-001, verze 3;<br>PP-002, verze 3;<br>PP-003, verze 3;<br>PP-004, verze 3;<br>PP-005, verze 3;<br>PP-007, verze 3;<br>PP-008, verze 1;<br>Light Cyclers 480 | Biologický materiál obsahující nukleovou kyselinu | A, B, C                      |
| 3.         | Vyšetření germinálního genomu         | MLPA                       | SOP-702, verze 6;<br>PP-013, verze 5;<br>PP-014, verze 5;<br>SeqStudio;<br>NextSeq   | Biologický materiál obsahující nukleovou kyselinu | A, B, C                      |
| 4.         | Vyšetření germinálního genomu         | NGS-MPS                    | SOP-703, verze 4;<br>PP-017, verze 4;<br>PP-018, verze 1;<br>PP-020, verze 1;<br>NextSeq   | Biologický materiál obsahující nukleovou kyselinu | A, B, C                      |
| 5.         | Vyšetření somatického genomu          | NGS-MPS                    | SOP-703, verze 4;<br>PP-018, verze 1;<br>PP-057, verze 1;<br>NextSeq   | Krev  | A, B, C, D                   |
| 6.         | Vyšetření variant germinálního genomu | PCR - fragmentační analýza | SOP-418, verze 4;<br>SOP-705, verze 2;<br>PP-044, verze 1;<br>PP-045, verze 2;<br>PP-046, verze 2;<br>SeqStudio  | Biologický materiál obsahující nukleovou kyselinu | A, B, C                      |

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|------------|-------------------------------|----------------------------|--|----------------------|------------------------------|
| 7.         | Vyšetření HLA systému         | PCR - reverzní hybridizace | SOP-704, verze 4;<br>PP-019, verze 4;<br>PP-047, verze 1 | Krev, bukální stěr   | A, B, C, D                   |

### Upřesnění rozsahu akreditace:

| Odbornost / poř. číslo | Detailní informace k činnostem v rozsahu akreditace  |
|------------------------|--|
| 802/1                  | DNA: <i>Chlamydia trachomatis</i> ;<br>DNA: <i>Neisseria gonorrhoeae</i> ,<br>RNA: SARS-CoV-2 (RT-PCR SARS-CoV-2 ) <i>Endornase, Spike</i>   |
| 802/2                  | Ab anti HIV 1,2 (Ig total) a Ag HIV p24  |
| 802/3                  | virus Hepatitidy A: protilátky anti-HAV IgM, anti-HAV IgG;<br>virus Hepatitidy B: protilátky anti-HBs, anti-HBc, anti-HBc IgM, anti-HBe;<br>virus Hepatitidy C: protilátky anti-HCV;<br>protilátky proti <i>Treponema pallidum</i> ve třídě IgM, IgG   |
| 802/4                  | antigeny proti viru hepatitidy B: HBsAg, HBeAg   |
| 816/1                  | Vyšetření I/D mutace v genu <i>PAI-1</i>   |
| 816/2                  | Detekované mutace pomocí metody Real-Time PCR: G1691A v genu pro Faktor V, G20210A v genu pro Faktor II, C677T v genu pro MTHFR, A1298C v genu pro MTHFR; c.181T>G, c.213-12A>G, c.5266dupC, c.68_69del2, c.1687C>T, c. 843_846del4, c. 4243delG v genu <i>BRCA1</i> , c.8537_8538del2, c.658_659del2, c.3847_3848del2, c.5645C>A v genu <i>BRCA2</i> , mutace C282Y a H63D v genu <i>HFE</i>  |
| 816/3                  | Vyšetření genů <i>BRCA1, BRCA2, PALB2, ATM, APC, BARD1, BRIP1, CDH1, CHEK2, EPCAM, MLH1, MSH2, MSH6, MUTYH, NBN, PMS2, PTEN, RAD50, RAD51C, RAD51D, STK11, TP53</i>  |
| 816/4                  | <i>Vyšetření genů BRCA1, BRCA2, PALB2, ATM, APC, BARD1, BRIP1, CDH1, CHEK2, EPCAM, MLH1, MSH2, MSH6, MUTYH, NBN, PMS2, PTEN, RAD50, RAD51C, RAD51D, STK11, TP53, A2M, A4GALT, A4GNT, AAAS, AADAC, AADA2L2, AAGAB, AANAT, AARS, AARS2, AASS, ABAT, ABCA1, ABCA10, ABCA12, ABCA13, ABCA2, ABCA3, ABCA4, ABCB1, ABCB11, ABCB4, ABCB6, ABCB7, ABCC1, ABCC11, ABCC2, ABCC3, ABCC4, ABCC6, ABCC8, ABCC9, ABCD1, ABCD3, ABCD4, ABCG2, ABCG5, ABCG8, ABHD12, ABHD5, ABI3BP, ABL1, ABL2, ABO, ACACA, ACACB, ACAD10, ACAD11, ACAD8, ACAD9, ACADL, ACADM, ACADS, ACADSB, ACADVL, ACAN, ACAT1, ACAT2, ACBD5, ACBD6, ACCS, ACE, ACHE, ACRY, ACO2, ACOX1, ACPI, ACP2, ACP5, ACSF3, ACSL4, ACSL5, ACSL6, ACSM3, ACTA1, ACTA2, ACTB, ACTC1, ACTG1, ACTN2, ACTN4, ACVR1, ACVR1B, ACVR1C, ACVR2A, ACVR2B, ACVRL1, ACY1, ADA, ADAM10, ADAM12, ADAM17, ADAM19, ADAM22, ADAM23, ADAM33, ADAM7, ADAM9, ADAMTS1, ADAMTS10, ADAMTS13, ADAMTS17, ADAMTS18, ADAMTS19, ADAMTS2, ADAMTSL2, ADAMTSL3, ADAMTSL4, ADAR, ADARB1, ADC, ADCK3, ADCY10, ADCY3, ADCY5, ADCY6, ADCY9, ADD1, ADD2, ADH1B, ADH1C, ADH4, ADH7, ADIPOQ,</i> |



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|---------------------------|---|
|                           | <p>ADIPOR1, ADK, ADM, ADORA2A, ADRA1A, ADRA2A, ADRA2B, ADRA2C, ADRB1, ADRB2, ADRB3, ADRBK2, ADSL, ADTRP, AFF2, AFF3, AFG3L2, AFP, AGA, AGBL1, AGGF1, AGK, AGL, AGMO, AGO1, AGPAT2, AGPS, AGRN, AGRP, AGT, AGTPBP1, AGTR1, AGTR2, AGXT, AGXT2, AHCY, AH11, AHR, AHRR, AHSB, AHSP, AICDA, AIFM1, AIMP1, AIP, AIPL1, AIRE, AK1, AK2, AK7, AK8, AKAP10, AKAP2, AKAP9, AKR1B1, AKR1C2, AKR1C3, AKR1C4, AKR1D1, AKR7A2, AKT1, AKT2, AKT3, ALAD, ALAS2, ALB, ALDH16A1, LDH18A1, ALDH1A1, ALDH1A2, ALDH2, ALDH3A2, ALDH4A1, ALDH5A1, ALDH6A1, ALDH7A1, ALDOA, ALDOB, ALG1, ALG12, ALG13, ALG14, ALG2, ALG3, ALG5, ALG6, ALG8, ALG9, ALK, ALMS1, ALOX12, ALOX12B, ALOX15, ALOX5, ALOX5AP, ALOXE3, ALPL, ALS2, ALS2CL, ALX1, ALX3, ALX4, AMACR, AMBN, AMELX, AMELY, AMER1, AMH, AMHR2, AMN, AMPD1, AMPD3, AMT, ANG, ANGPTL3, ANGPTL4, ANGPTL5, ANGPTL6, ANK1, ANK2, ANK3, ANKH, ANKK1, ANKRD1, ANKRD11, ANKRD26, ANKS1A, ANKS6, ANO10, ANO3, ANO5, ANO6, ANO7, ANTXR1, ANTXR2, ANXA5, AOA, AP1S1, AP1S2, AP3B1, AP3B2, AP3D1, AP4B1, AP4E1, AP4M1, AP4S1, AP5Z1, PAF1, APBA2, APBB1IP, APBB2, APCDD1, APEX1, APOA1, APOA2, APOA4, APOA5, APOB, APOBEC1, APOBEC3H, APOC4_APOC2, APOD, APOE, APOH, APOL1, APOL3, APP, APRT, APTX, AQP1, AQP2, AQP3, AQP4, AQP5, AQP7, AR, ARF4, ARFGF2, ARG1, ARHGAP18, ARHGAP24, ARHGAP26, ARHGAP31, ARHGAP6, ARHGAP9, ARHGDI, ARHGDI10, ARHGDI12, ARHGDI6, ARHGDI7, ARHGDI9, ARID1A, ARID1B, ARID4A, ARID4B, ARL13B, ARL14EP, ARL3, ARL6, ARMS2, ARSA, ARSB, ARSE, ART4, ARX, AS3MT, ASAH1, ASB10, ASCC1, ASCC3, ASCLI, ASIC3, ASIP, ASL, ASMT, ASNS, ASPA, ASPM, ASPN, ASPRV1, ASS1, ASXL1, ATCAY, ATF3, ATF6, ATG16L1, ATG7, ATIC, ATLI, ATN1, ATOH7, ATP10A, ATP10D, ATP13A2, ATP13A4, ATP1A2, ATP1A3, ATP1B1, ATP2A1, ATP2A2, ATP2A3, ATP2B2, ATP2B3, ATP2B4, ATP2C1, ATP5SL, ATP6AP2, ATP6V0A2, ATP6V0A4, ATP6V1B1, ATP7A, ATP7B, ATP8A2, ATP8B1, ATPAF2, ATR, ATRNL1, ATRX, ATXN1, ATXN10, ATXN2, ATXN3, ATXN3L, ATXN7, AUH, AURKA, AURKC, AUTS2, AVP, AVPR1A, AVPR2, AXIN1, AXIN2, AXL, B2M, B3GALNT1, B3GALNT2, B3GALT1, B3GALT2, B3GALT5, B3GALT6, B3GALTL, B3GAT1, B3GAT2, B3GAT3, B3GNT1, B3GNT2, B3GNT3, B3GNT4, B3GNT5, B3GNT6, B3GNT7, B3GNT8, B4GALNT1, B4GALNT2, B4GALNT3, B4GALNT4, B4GALT1, B4GALT2, B4GALT3, B4GALT4, B4GALT5, B4GALT6, B4GALT7, B9D1, B9D2, BAAT, BAG3, BANF1, BANK1, BAP1, BARX2, BAX, BAZ1B, BBS1, BBS10, BBS12, BBS2, BBS4, BBS5, BBS7, BBS9, BCAM, BCAT2, BCHE, BCKDHA, BCKDHB, BCKDK, BCL10, BCL11A, BCL2, BCL2L1, BCL2L11, BCL2L2_PABPN1, BCL6, BCL9, BCMO1, BCOR, BCORL1, BCR, BCS1L, BDNF, BEAN1, BEST1, BFSP1, BFSP2, BGN, BHLHA9, BHLHE41, BICC1, BIN1, BLK, BLM, BLMH, BLNK, BLOC1S5, BLOC1S6, BLVRA, BM11, BMP1, BMP15, BMP2, BMP4, BMP5, BMP7, BMPER, BMPR1A, BMPR1B, BMPR2, BNC2, BOC, BOLA3, BPGM, BRAF, BRAT1, BRCC3, BRD1, BRD2, BRF1, BRSK2, BRWD1, BRWD3, BSCL2, BSG, BSND, BTBD9, BTD, BTK, BUB1, BUB1B, C12orf57, C15orf62, C16orf58, C18orf8, C1GALT1, C1GALTIC1, C1QA, C1QB, C1QC, CIR, C1S, C21orf91, C2CD5, C2orf42, C2orf71, C3, C3AR1, C4orf19, C4orf26, C5, C5AR2, C5orf42, C6, C7, C7orf10, C8A, C8B, C8orf37, C9, C9orf72, CA1, CA12, CA2, CA4, CA8, CABIN1, CABP2, CABP4, CACNA1A, CACNA1C, CACNA1D, CACNA1E, CACNA1F, CACNA1G, CACNA1H, CACNA1S, CACNA2D1, CACNA2D2, CACNA2D3, CACNA2D4, CACNB2, CACNB4, CACNG2, CACNG3, CACNG4, CADM1, CADPS2, CALCA, CALCR, CALCRL, CALHM1, CALM1, CALM3, CALR, CALR3, CAMK4, CAMKMT, CAMSAP2, CAMTA1, CANTI, CAPN10, CAPN3, CARD11, CARD14, CARD9, CARTPT, CASC5, CASK, CASP1, CASP10, CASP12, CASP2, CASP8, CASQ2, CASR, CAT, CATSPER1, CATSPER2, CATSPER3, CATSPER4, CAV1, CAV3, CBF, CBL, CBLB, CBR1, CBR3, CBS, CBX2, CBX4, CBY1, CC2D1A, CC2D2A, CCBE1, CCDC103, CCDC107, CCDC11, CCDC127, CCDC14, CCDC22, CCDC28B, CCDC39, CCDC40, CCDC50, CCDC66, CCDC78, CCDC8, CCDC88C, CCKAR, CCKBR, CCL11, CCL2, CCL3, CCL5, CCM2, CCND1, CCR2, CCR3, CCR5, CCR7, CCT5, CD109, CD151, CD177, CD19, CD200, CD207, CD209, CD244, CD247, CD27, CD2AP, CD320, CD36, CD38, CD3D, CD3E, CD3G, CD4, CD40, CD40LG, CD44, CD46, CD5, CD55, CD59, CD74, CD79A, CD79B, CD80, CD81, CD86, CD8A, CD96, CDA, CDANI, CDC42, CDC42BPB, CDC6, CDC73, CDH13, CDH15, CDH23, CDH3, CDH5, CDHR1,</p> |

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|---------------------------|--|
|                           | <p>CDK16, CDK4, CDK5R1, CDK5RAP2, CDK6, CDK7, CDKALI, CDKL3, CDKL5, CDKN1A, CDKN1B, CDKN1C, CDKN2A, CDKN2B, CDKN2C, CDON, CDT1, CDX2, CDYL, CEACAM16, CEBPA, CEBPE, CECR2, CEL, CELSR1, CELSR2, CENPJ, CEP135, CEP152, CEP164, CEP290, CEP41, CEP57, CEP63, CEP85L, CERKL, CERS6, CES1, CES2, CETP, CFD, CFH, CFHR1, CFHR5, CFI, CFL2, CFP, CFTR, CGB, CHAT, CHD1L, CHD2, CHD3, CHD6, CHD7, CHD8, CHGA, CHI3L1, CHIA, CHIC2, CHIT1, CHKB, CHL1, CHM, CHMP1A, CHMP2B, CHMP4B, CHN1, CHPF, CHPF2, CHRD, CHRDL1, CHRM1, CHRM2, CHRM3, CHRNA1, CHRNA2, CHRNA3, CHRNA4, CHRNA5, CHRNA7, CHRNA9, CHRNB1, CHRNB2, CHRNB4, CHRND, CHRNE, CHRNG, CHST14, CHST3, CHST6, CHST7, CHST8, CHSY1, CHSY3, CHUK, CIB2, CIC, CIDEA, CIITA, CILP, CIRH1A, CISP2, CISH, CITED2, CKM, CLCF1, CLCN1, CLCN2, CLCN3, CLCN4, CLCN5, CLCN6, CLCN7, CLCNKA, CLCNKB, CLDN1, CLDN14, CLDN16, CLDN19, CLEC10A, CLEC3B, CLEC7A, CLIC2, CLIP2, CLK2, CLMP, CLN3, CLN5, CLN6, CLN8, CLOCK, CLPTM1, CLPTM1L, CLRN1, CLTCL1, CLU, CMPK1, CNBP, CNGA1, CNGA3, CNGB1, CNGB3, CNKSR1, CNKSR2, CNNM2, CNNM4, CNOT4, CNPY3, CNR1, CNR2, CNTF, CNTN1, CNTN4, CNTNAP2, CNTNAP4, COA5, COCH, COG1, COG2, COG3, COG4, COG5, COG6, COG7, COG8, COL10A1, COL11A1, COL11A2, COL17A1, COL18A1, COL1A1, COL1A2, COL21A1, COL2A1, COL3A1, COL4A1, COL4A2, COL4A3, COL4A4, COL4A5, COL4A6, COL5A1, COL5A2, COL6A1, COL6A2, COL6A3, COL7A1, COL8A2, COL9A1, COL9A2, COL9A3, COLEC11, COLQ, COMMD1, COMP, COMT, COQ2, COQ5, COQ6, COQ9, CORIN, CORO1A, COX10, COX14, COX15, COX4I1, COX4I2, COX6B1, COX7B, CP, CPA6, CPB2, CPE, CPLX2, CPN1, CPOX, CPS1, CPT1A, CPT2, CPZ, CR1, CR2, CRADD, CRB1, CRBN, CREB1, CREB3L3, CREBBP, CRELD1, CRISP2, CRKL, CRLF1, CRP, CRTAP, CRX, CRYAA, CRYAB, CRYBA1, CRYBA4, CRYBB1, CRYBB2, CRYBB3, CRYGA, CRYGB, CRYGC, CRYGD, CRYGS, CRYM, CSAG1, CSDE1, CSF1, CSF1R, CSF2, CSF2RA, CSF2RB, CSF3R, CSGALNACT1, CSH1, CSMD1, CSMD3, CSNK1D, CSNK1G1, CSNK2A2, CSRP3, CST3, CST6, CSTA, CSTB, CSTF2T, CTC1, CTDP1, CTF1, CTGF, CTH, CTHRC1, CTLA4, CTNNA3, CTNNB1, CTNND2, CTNS, CTCR, CTSA, CTSB, CTSC, CTSD, CTSG, CTSK, CTTNBP2, CUBN, CUEDC1, CUL2, CUL3, CUL4B, CUL5, CUL7, CX3CR1, CXCL12, CXCL5, CXCR1, CXCR4, CYB5A, CYB5R3, CYB5R4, CYBA, CYBB, CYBRD1, CYFIP1, CYLD, CYP11A1, CYP11B1, CYP11B2, CYP19A1, CYP1A2, CYP1B1, CYP21A1P, CYP21A2, CYP24A1, CYP26B1, CYP26C1, CYP27A1, CYP27B1, CYP2A13, CYP2A6, CYP2B6, CYP2C18, CYP2C19, CYP2C8, CYP2C9, CYP2D6, CYP2E1, CYP2F1, CYP2J2, CYP2R1, CYP2U1, CYP3A4, CYP3A5, CYP3A7, CYP4A22, CYP4F12, CYP4F2, CYP4F22, CYP4F3, CYP4V2, CYP7A1, CYP7B1, CYR61, CYS1, D2HGDH, DACH1, DAD1, DAG1, DAO, DARC, DARS2, DAZ4, DAZL, DBH, DBT, DCAF17, DCBLD1, DCC, DCK, DCLRE1C, DCN, DCTD, DCTN1, DCX, DCXR, DDB2, DDC, DDHD1, DDHD2, DDOST, DDR2, DDRGK1, DDX25, DDX3X, DDX3Y, DDX58, DEAF1, DEF6, DEFB126, DES, DFNA5, DFNB31, DFNB59, DGCR14, DGCR2, DGKD, DGKE, DGUOK, DHCR24, DHCR7, DHDDS, DHH, DHODH, DHRS4L1, DHTKD1, DHX37, DIABLO, DIAPH1, DIAPH2, DIAPH3, DICER1, DIP2A, DIP2B, DIP2C, DIRC2, DIS3L2, DISC1, DISP1, DKC1, DKK3, DLAT, DLC1, DLD, DLEC1, DLG2, DLG3, DLG4, DLGAP3, DLL1, DLL3, DLX3, DLX5, DLX6, DMC1, DMD, DMGDH, DMP1, DMPK, DMRT1, DMXL1, DNAAF1, DNAAF2, DNAAF3, DNAH11, DNAH5, DNAH9, DNAI1, DNAI2, DNAJB2, DNAJB6, DNAJC19, DNAJC30, DNAJC5, DNAJC6, DNAL1, DNASE1, DNASE1L3, DNASE2, DNM1, DNM1L, DNM2, DNMT1, DNMT3A, DNMT3B, DNMT3L, DOC2A, DOCK3, DOCK4, DOCK6, DOCK7, DOCK8, DOCK9, DOK1, DOK2, DOK5, DOK7, DOLK, DOLPP1, DOT1L, DPAGT1, DPCD, DPM1, DPM2, DPM3, DPP6, DPY19L2, DPYD, DPYS, DRD1, DRD2, DRD3, DRD4, DRD5, DSC2, DSC3, DSCAM, DSG1, DSG2, DSG3, DSG4, DSP, DSPP, DST, DTNA, DTNBP1, DUOX2, DUOX2A, DUX4, DUX4L3, DVL2, DYM, DYNAP, DYNC1H1, DYNC2H1, DYRK1A, DYSF, DYX1C1, E2F1, E2F4, E2F5, EARS2, EBAG9, EBF4, EBP, ECE1, ECE2, ECII, ECM1, ECM2, ECSIT, EDA, EDA2R, EDAR, EDARADD, EDN1, EDN3, EDNRA, EDNRB, EFCAB5, EFEMP1, EFEMP2, EFHC1, EFHC2, EFNA5, EFN1, EFR3A, EFTUD2, EGF, EGFR, EGLN1, EGR2, EHBP1, EHD2, EHHADH, EHMT1, EIF2AK3, EIF2B1, EIF2B2, EIF2B3, EIF2B4, EIF2B5, EIF2D, EIF2S3, EIF4E, EIF4G1, EIF4H, ELAC2, ELANE, ELF4,</p> |





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|                           | <p><i>PIM1, PIN1, PINK1, PIP5K1C, PITPNA, PITPNM3, PITX1, PITX2, PITX3, PKD1, PKD2, PKHD1, PKLR, PKM, PKN3, PKP1, PKP2, PLA2G10, PLA2G2A, PLA2G4A, PLA2G5, PLA2G6, PLA2G7, PLAG1, PLAGL1, PLAU, PLCB1, PLCB4, PLCD1, PLCE1, PLCG2, PLCZ1, PLD2, PLEC, PLEKHG4, PLEKHG5, PLG, PLIN1, PLOD1, PLOD2, PLOD3, PLP1, PLP2, PLSCR3, PLTP, PML, PMM2, PMP22, PMS1, PNKD, PNKP, PNLIP, PNMT, PNP, PNPLA1, PNPLA2, PNPLA6, PNPO, PNPT1, POC1A, POF1B, POFUT2, POGZ, POLB, POLD1, POLE2, POLG, POLG2, POLH, POLL, POLR1C, POLR1D, POLR3A, POLR3B, POLRMT, POMC, POMGNT1, POMP, POMT1, POMT2, PON1, PON2, PON3, POP1, POR, PORCN, POSTN, POU1F1, POU3F4, POU4F3, POU5F1, POU6F2, PPARA, PPARG, PPARGC1B, PPIB, PPM1B, PPM1D, PPM1G, PPM1K, PPOX, PPP1R12B, PPP1R17, PPP1R1A, PPP1R3A, PPP1R3C, PPP2R1B, PPP2R2A, PPP2R2B, PPP2R2C, PPP3CA, PPP3R1, PPT1, PQBP1, PRAF2, PRB1, PRB3, PRB4, PRCC, PRCD, PRCP, PRDM16, PRDM5, PRDM9, PREPL, PRF1, PRG4, PRICKLE1, PRICKLE2, PRKACA, PRKAG2, PRKAG3, PRKARIA, PRKCA, PRKCG, PRKCH, PRKCSH, PRKDC, PRKG2, PRLH, PRLR, PRM1, PRM2, PRMT10, PRMT3, PRMT7, PRND, PRNP, PROC, PROCR, PRODH, PROK1, PROK2, PROKR1, PROKR2, PROM1, PROP1, PROS1, PROX1, PROZ, PRPF3, PRPF31, PRPF6, PRPF8, PRPH, PRPH2, PRPS1, PRRT2, PRRX1, PRSS1, PRSS12, PRSS3P2, PRSS56, PRSS8, PRTG, PRX, PSAP, PSAT1, PSEN1, PSEN2, PSENEN, PSMA4, PSMA6, PSMB8, PSMC3IP, PSMD7, PSPH, PSPN, PSTPIPI1, PSTPIPI2, PTAFR, PTC1D1, PTCH1, PTCH2, PTCHD1, PTCHD3, PTF1A, PTGDR, PTGER2, PTGER4, PTGIR, PTGIS, PTGS1, PTGS2, PTH, PTH1R, PTHLH, PTK7, PTPN1, PTPN11, PTPN12, PTPN14, PTPN22, PTPN6, PTPRC, PTPRJ, PTPRK, PTPRN2, PTPRO, PTPRQ, PTPRT, PTRF, PTS, PUS1, PVRL1, PVRL4, PXDN, PYCRI, PYGL, PYGM, PYY, PZP, QDPR, QKI, RAB11FIP5, RAB18, RAB23, RAB25, RAB27A, RAB27B, RAB2A, RAB39B, RAB3GAP1, RAB3GAP2, RAB7A, RAB7L1, RABGGTA, RABL6, RAC1, RAC2, RAD21, RAD21L1, RAD51, RAD51B, RAD52, RAD54B, RAD54L, RAF1, RAG1, RAG2, RAI1, RALGAP1, RALGDS, RANBP2, RANGRF, RAP1GDS1, RAPSN, RARA, RARS2, RASA1, RASGEF1B, RASGRP1, RASGRP2, RASSF5, RAX, RAX2, RB1, RB1CC1, RBBP8, RBFOX1, RBL1, RBL2, RBM10, RBM15, RBM20, RBM28, RBMXL2, RBP3, RBP4, RBPJ, RC3H1, RCBTB1, RCHY1, RD3, RDH12, RDH5, RDH8, RDX, RECQL4, REEP1, REL, RELN, REN, REPS2, RET, RETN, RFC2, RFT1, RFX2, RFX5, RFX6, RFX8, RFXANK, RFXAP, RGL1, RGMA, RGR, RGS2, RGS5, RGS7, RGS9, RGS9BP, RHAG, RHBDF2, RHCE, RHD, RHO, RHOG, RHOH, RHPN2, RIMS1, RIMS2, RIMS3, RIN2, RIOK2, RIPK4, RIT2, RLBP1, RMDN2, RMND1, RNASEH2A, RNASEH2B, RNASEH2C, RNASEL, RNASET2, RNF113A, RNF135, RNF139, RNF168, RNF170, RNF212, RNF213, RNF219_AS1, RNF6, ROBO1, ROBO2, ROBO3, ROCK1, ROGDI, ROM1, ROR2, RORA, ROS1, RP1, RP1L1, RP2, RP9, RPA1, RPA4, RPE65, RPGR, RPGRIP1, RPGRIP1L, RPIA, RPL10, RPL11, RPL24, RPL35A, RPL36, RPL38, RPL5, RPL6, RPN2, RPS15, RPS17L, RPS19, RPS24, RPS26, RPS5, RPS6KA3, RPS6KL1, RPSAP52, RPTOR, RRAS2, RRH, RRM2B, RS1, RSC1A1, RSPH4A, RSPH9, RSPO1, RSPO4, RSRC1, RTN2, RTN4R, RTTN, RUNX1, RUNX2, RUNX3, RUVBL1, RXFP2, RXRA, RYK, RYR1, RYR2, SAA1, SACS, SAG, SAGE1, SALL1, SALL4, SAMD9, SAMHD1, SAR1B, SARDH, SARS2, SART3, SAT1, SATB2, SATL1, SBF2, SC5D, SCARB1, SCARB2, SCARF2, SCGB1A1, SCGB3A2, SCLT1, SCN10A, SCN11A, SCN1A, SCN1B, SCN2A, SCN2B, SCN3A, SCN3B, SCN4A, SCN4B, SCN5A, SCN7A, SCN8A, SCN9A, SCNN1A, SCNN1B, SCNN1D, SCNN1G, SCO1, SCO2, SCP2, SCRIB, SCUBE2, SDC3, SDCCAG8, SDHA, SDHAF1, SDHAF2, SDHB, SDHC, SDHD, SEC23A, SEC23B, SEC63, SECISBP2, SELE, SELL, SELP, SELPLG, SEMA3A, SEMA3E, SEMA4A, SEMA4C, SEMA4G, SEMA6D, SEMA7A, SEMG1, SEPNI1, SEPSECS, SEPT12., SEPT5_GP1BB, SEPT7, SERAC1, SERPINA1, SERPINA10, SERPINA3, SERPINA6, SERPINA7, SERPINB11, SERPINB5, SERPINB6, SERPINC1, SERPIND1, SERPINE1, SERPINF1, SERPINF2, SERPING1, SERPINH1, SERPINII, SERPINI2, SESN2, SETBP1, SETD2, SETD8, SETX, SEZ6, SEZ6L, SEZ6L2, SF3B1, SF3B4, SFRP1, SFTPA1, SFTPA2, SFTPB, SFTPC, SFTPD, SGCA, SGCB, SGCD, SGCE, SGCG, POMK(SGK196), SGSH, SH2B1, SH2B3, SH2D1A, SH3BP2, SH3GL1, SH3PXD2B, SH3TC2, SHANK2, SHANK3, SHARPIN, SHBG, SHFM1, SHH, SHMT1, SHOC2, SHOX, SHOX2, SHROOM3, SHROOM4, SI, SIAE, SIGLEC12, SIGLEC14, SIGMAR1, SIK3, SIL1, SIM1, SIM2,</i></p> |



## Seznam činností v rámci flexibilního rozsahu akreditace

| Odbornost<br>/ poř. číslo | Detailní informace k činnostem v rozsahu akreditace   |
|---------------------------|---|
|                           | <p>SIPA1, SIPA1L1, SIRT1, SIRT3, SIX1, SIX2, SIX3, SIX5, SIX6, SKI, SLA2, SLC10A1, SLC10A2, SLC11A1, SLC11A2, SLC12A1, SLC12A3, SLC12A6, SLC13A2, SLC14A1, SLC15A1, SLC16A1, SLC16A12, SLC16A2, SLC17A3, SLC17A5, SLC17A8, SLC19A2, SLC19A3, SLC1A1, SLC1A3, SLC1A5, SLC20A2, SLC22A1, SLC22A12, SLC22A18, SLC22A2, SLC22A3, SLC22A4, SLC22A5, SLC22A6, SLC22A9, SLC24A1, SLC24A2, SLC24A5, SLC25A12, SLC25A13, SLC25A15, SLC25A19, SLC25A20, SLC25A22, SLC25A3, SLC25A38, SLC25A39, SLC25A4, SLC26A1, SLC26A10, SLC26A2, SLC26A3, SLC26A4, SLC26A5, SLC26A6, SLC26A9, SLC27A1, SLC27A4, SLC27A5, SLC28A1, SLC28A2, SLC28A3, SLC29A1, SLC29A2, SLC29A3, SLC2A1, SLC2A10, SLC2A2, SLC2A4, SLC2A9, SLC30A10, SLC30A2, SLC30A5, SLC30A8, SLC31A1, SLC33A1, SLC34A1, SLC34A2, SLC34A3, SLC35A1, SLC35C1, SLC35D1, SLC35F3, SLC35G2, SLC36A2, SLC37A4, SLC39A12, SLC39A13, SLC39A4, SLC3A1, SLC40A1, SLC41A1, SLC44A2, SLC45A2, SLC46A1, SLC47A1, SLC47A2, SLC4A1, SLC4A10, SLC4A11, SLC4A3, SLC4A4, SLC4A7, SLC52A1, SLC52A2, SLC52A3, SLC5A1, SLC5A11, SLC5A2, SLC5A5, SLC5A7, SLC6A1, SLC6A11, SLC6A12, SLC6A13, SLC6A14, SLC6A18, SLC6A19, SLC6A2, SLC6A20, SLC6A3, SLC6A4, SLC6A5, SLC6A6, SLC6A8, SLC6A9, SLC7A10, SLC7A11, SLC7A2, SLC7A5, SLC7A7, SLC7A9, SLC9A3, SLC9A3R1, SLC9A6, SLC9A9, SLC01A2, SLC01B1, SLC01B3, SLC01C1, SLC02A1, SLC02B1, SLC05A1, SLFN5, SLIT1, SLIT3, SLITRK1, SLITRK5, SLITRK6, SLURP1, SLX4, SMAD1, SMAD2, SMAD3, SMAD4, SMAD5, SMAD6, SMAD7, SMAD9, SMARCA2, SMARCA4, SMARCAD1, SMARCAL1, SMARCB1, SMARCE1, SMC1A, SMC3, SMCHD1, SMG1, SMIM3, SMN2, SMO, SMOC1, SMOC2, SMPD1, SMPD3, SMPX, SMS, SMUG1, SNAI2, SNAP25, SNAP29, SNAPC5, SNCA, SNCAIP, SNCB, SNIP1, SNRK, SNRNP200, SNTA1, SNTB1, SNTG2, SNURF, SNX1, SNX10, SNX3, SOBP, SOCS3, SOD1, SOD2, SOD3, SOGA3, SOHLH1, SORCS1, SORL1, SORT1, SOS1, SOST, SOX10, SOX17, SOX18, SOX2, SOX3, SOX5, SOX6, SOX7, SOX9, SP110, SP7, SP8, SPAG17, SPANXN5, SPAST, SPATA13, SPATA16, SPATA21, SPATA31C1, SPATA7, SPECC1, SPECC1L, SPEF2, SPG11, SPG20, SPG21, SPG7, SPI1, SPINK1, SPINK5, SPINT2, SPP1, SPR, SPRED1, SPRED2, SPRN, SPRY2, SPRY4, SPSB1, SPTA1, SPTAN1, SPTB, SPTBN1, SPTBN2, SPTBN5, SPTLC1, SPTLC2, SQSTM1, SRC, SRCAP, SRD5A2, SRD5A3, SREBF1, SREBF2, SRGAP3, SRI, SRP72, SRPX, SRPX2, SRR, SRY, SSH1, SSPN, SSTR5, SSX7, ST14, ST3GAL1, ST3GAL2, ST3GAL3, ST3GAL4, ST3GAL5, ST3GAL6, ST5, ST6GAL1, ST6GAL2, ST6GALNAC1, ST6GALNAC2, ST6GALNAC3, ST6GALNAC4, ST6GALNAC5, ST6GALNAC6, ST8SIA1, ST8SIA2, ST8SIA3, ST8SIA4, ST8SIA5, ST8SIA6, STAR, STARD9, STAT1, STAT3, STAT4, STAT5B, STEAP3, STIL, STIM1, STK11IP, STK19, STK35, STK36, STK39, STK4, STOX1, STRA6, STRADA, STRC, STS, STT3A, STT3B, STX11, STX16, STXBP1, STXBP2, SUCLA2, SUCLG1, SUCO, SUFU, SULF1, SULT1A1, SULT1C2, SULT2A1, SULT2B1, SULT4A1, SUMF1, SUMO1, SUMO4, SUOX, SUPT16H, SURF1, SUV420H1, SUZ12, SV2B, SYCE2, SYCP3, SYK, SYN1, SYN2, SYNE1, SYNE2, SYNGR1, SYNM, SYNPO, SYNPR, SYP, SYT14, SYT17, SYT2, SYTL3, SYTL5, T, TAAR1, TAAR9, TAB2, TAC3, TACO1, TACR3, TACSTD2, TAF1, TAF15, TAF1C, TAF1L, TAF2, TAL1, TAL2, TALDO1, TAP2, TARDBP, TAS1R1, TAS1R3, TAS2R16, TAS2R3, TAS2R38, TAS2R46, TAT, TAZ, TBC1D23, TBC1D24, TBC1D4, TBC1D9, TBCE, TBK1, TBL1X, TBL1XR1, TBL1Y, TBP, TBX1, TBX10, TBX15, TBX19, TBX2, TBX20, TBX21, TBX22, TBX3, TBX4, TBX5, TBX6, TBXA2R, TBXAS1, TCAP, TCF21, TCF3, TCF4, TCF7L1, TCF7L2, TCIRG1, TCN1, TCN2, TCOF1, TCTE1, TCTE3, TCTN1, TCTN2, TCTN3, TDO2, TDP1, TDRD7, TEAD1, TEC, TECPR2, TECR, TECTA, TEK, TEKT2, TENC1, TENM2, TENM4, TERC, TERT, TET1, TET2, TEX14, TF, TFAM, TFAP2A, TFAP2B, TFB1M, TFE3, TFF1, TFG, TFPI, TFR2, TFRC, TG, TGFB1, TGFB2, TGFB3, TGFB1, TGFB1R1, TGFB1R2, TGFB1R3, TGIF1, TGM1, TGM2, TGM5, TGM6, TH, THAP1, THBD, THBS1, THBS2, THOC2, THPO, THRA, THRB, THSD7A, TICAM1, TIMM44, TIMM8A, TIMP3, TINAG, TINF2, TIRAP, TJP2, TK2, TLL1, TLR1, TLR2, TLR3, TLR4, TLR5, TLR6, TLR9, TLX1, TLX2, TLX3, TM4SF19, TMC1, TMC6, TMC8, TMC01, TMEM114, TMEM126A, TMEM127, TMEM135, TMEM138, TMEM165, TMEM173, TMEM187, TMEM216, TMEM231, TMEM237, TMEM43, TMEM5, TMEM67, TMEM70, TMEM8A, TMEM99, TMIE, TMLHE, TMPO, TMPRSS15, TMPRSS3, TMPRSS5, TMPRSS6, TMTC3, TNFRSF10B, TNFRSF11A, TNFRSF11B, TNFRSF13B, TNFRSF13C, TNFRSF1A,</p> |

Seznam činností v rámci flexibilního rozsahu akreditace

| Odbornost / poř. číslo | Detailní informace k činnostem v rozsahu akreditace  |
|------------------------|--|
|                        | <p><i>TNFRSF1B, TNFRSF9, TNFSF11, TNFSF14, TNFSF4, TNKS, TNNC1, TNNI2, TNNI3, TNNI3K, TNNT1, TNNT2, TNNT3, TNP1, TNR, TNRC6B, TNS3, TNXB, TOP1, TOP2A, TOPORS, TOR1A, TP53BP1, TP53RK, TP63, TP73, TPCN2, TPH1, TPH2, TPK1, TPM1, TPM2, TPM3, TPMT, TPO, TPP1, TPRN, TPTE, TRADD, TRAF3, TRAF3IP2, TRAF6, TRAK1, TRAPPC9, TRDN, TREH, TREM2, TRERF1, TREX1, TRHR, TRIB2, TRIB3, TRIM21, TRIM24, TRIM32, TRIM33, TRIM37, TRIO, TRIOBP, TRIP11, TRIP12, TRIP13, TRMU, TROAP, TROVE2, TRPA1, TRPC3, TRPC4, TRPC6, TRPM1, TRPM2, TRPM3, TRPM4, TRPM6, TRPM7, TRPS1, TRPV1, TRPV3, TRPV4, TRPV5, TRRAP, TSC1, TSC2, TSEN2, TSEN34, TSEN54, TSFM, TSG101, TSHB, TSHR, TSHZ1, TSLP, TSPAN12, TSPAN17, TSPAN7, TSPEAR, TSPO, TSPYL1, TSSC4, TSSK4, TST, TTBK2, TTC19, TTC21B, TTC37, TTC8, TTI2, TLL1, TTN, TTPA, TTR, TUB, TUBA1A, TUBA8, TUBB1, TUBB2B, TUBB3, TUBGCP5, TUBGCP6, TUFM, TULP1, TUSC3, TWIST1, TWIST2, TXNIP, TXNRD2, TYK2, TYMP, TYMS, TYR, TYRO3, TYROBP, TYRP1, UACA, UBA1, UBAC2, UBE2A, UBE2B, UBE2NL, UBE3A, UBE3C, UBIAD1, UBQLN2, UBR1, UBR3, UBR7, UCHL1, UCN, UCP1, UCP2, UCP3, UFD1L, UGCG, UGGT1, UGGT2, UGT1A1, UGT1A10, UGT1A3, UGT1A4, UGT1A5, UGT1A6, UGT1A7, UGT1A8, UGT1A9, UGT2A1, UGT2B10, UGT2B17, UGT2B4, UGT2B7, UGT8, UIMC1, ULK4, UMOD, UMPS, UNC119, UNC13D, UNC5C, UNC5CL, UNC80, UNC93A, UNC93B1, UNG, UNKL, UPB1, UPF3B, UPK3A, UQCRB, UQCRFS1, UQCRO, UROCI, UROD, UROS, USB1, USF1, USH1C, USH1G, USH2A, USPI, USP15, USP26, USP3, USP46, USP9X, USP9Y, UST, UTF1, UTP14C, UTRN, UVSSA, VAMP7, VANGL1, VANGL2, VAPB, VAX1, VCAM1, VCAN, VCL, VCP, VCX3A, VDR, VEGFA, VEGFC, VHL, VIM, VIPAS39, VKORC1, VLDLR, VMA21, VNN1, VPS13A, VPS13B, VPS33B, VPS35, VPS37A, VPS54, VRK1, VSIG4, VSX1, VSX2, VWF, WAS, WASF3, WBSCR17, WDFY3, WDPCP, WDR11, WDR13, WDR19, WDR35, WDR36, WDR4, WDR45, WDR45B, WDR62, WDR65, WDR72, WDR81, WFS1, WHSC1, WIPF1, WISP3, WNK1, WNK4, WNT10A, WNT10B, WNT3, WNT4, WNT5A, WNT7A, WRAP53, WRN, WT1, WWC1, WWOX, WWTR1, XBP1, XDH, XG, XIAP, XK, XKR6, XPA, XPC, XPNPEP2, XPNPEP3, XRCC1, XRCC2, XRCC3, XRCC4, XRCC5, XRCC6, XYLT1, XYLT2, YARS, YARS2, YBX2, YWHAE, YY1, ZAN, ZAP70, ZBTB16, ZBTB18, ZBTB24, ZBTB40, ZBTB41, ZC3H14, ZCCHC12, ZCCHC13, ZCCHC8, ZDHHC15, ZDHHC17, ZDHHC2, ZDHHC9, ZEB1, ZEB2, ZFAT, ZFH3, ZFP36, ZFP36L1, ZFP36L2, ZFP69, ZFP90, ZFPM2, ZFYVE26, ZFYVE27, ZHX3, ZIC2, ZIC3, ZIC4, ZKSCAN5, ZMPSTE24, ZMYM3, ZNF175, ZNF213, ZNF335, ZNF365, ZNF41, ZNF419, ZNF420, ZNF423, ZNF433, ZNF469, ZNF480, ZNF513, ZNF526, ZNF592, ZNF644, ZNF674, ZNF711, ZNF750, ZNF75D, ZNF80, ZNF81, ZPBP, ZPBP2.</i></p> |
| 816/5                  | <i>TP53</i>  |
| 816/6                  | <p>Detekované mutace v genu <i>CFTR</i>: <i>CFTRdele2,3, E60X, P67L, G85E, 394delTT, 444delA, R117C, R117H, Y122X, 621+1G&gt;T, 711+1G&gt;T, L206W, 1078delT, R334W, R347P, R347H, A455E, I507del, F508del, 1677delTA, V520F, 1717-1G&gt;A, G542X, S549R(T&gt;G), S549N, G551D, R553X, R560T, 1811+1,6kbA&gt;G, 1898+1G&gt;A, 2143delT, 2184delA, 2347delG, W846X, 2789+5G&gt;A, Q890X, 3120+1G&gt;A, 3272-26A&gt;G, R1066C, Y1092X(C&gt;A), M1101K, D1152H, R1158X, R1162X, 3659delC, 3849+10kbC&gt;T, S1251N, 3905insT, W1282X, N1303K</i></p> <p>Detekované mutace pomocí metody fragmentační analýzy v genu <i>BRCA1</i>: <i>c.1881_1884del4, c.1938_1947del10, c.1953_1956del4, c.1961delA, c.2068delA, c.2411_2412del2, c.2488_2497dupAAGTATCCAT, c.3018_3021del4, c.3642_3643del2, c.3700_3704delGTAAA, c.3756_3759del4, c.4065_4068del4</i>; v genu <i>BRCA2</i>: <i>c.7913_7917del5, c.9403delC, c.9435_9436del2</i>.<br/>Detekce inserce TA sekvence v genu <i>UGT1A1</i>.</p>   |
| 816/7                  | <p>Stanovení alel/alelických skupin pro celiakii: <i>HLA-DQA1, HLA-DQB1</i>;</p> <p>Stanovení HLA znaků <i>B*27</i> pro Morbus Bechtěrev</p>   |



## Seznam činností v rámci flexibilního rozsahu akreditace

### Odběr primárních vzorků:

| Poř. číslo | Technika odběru | Identifikace postupu odběru | Odebíraný materiál          | Stupně volnosti <sup>1</sup> |
|------------|-----------------|-----------------------------|-----------------------------|------------------------------|
| 1.         | Venepunkce      | SOP-521, verze 4            | Žilní krev                  | -                            |
| 2.         | Bukální stěr    | SOP-522, verze 4            | Buňky sliznice ústní dutiny | -                            |

### Vysvětlivky:

<sup>1</sup> Zavedené stupně volnosti podle MPA 00-09-...:

A - Flexibilita týkající se dokumentovaného postupu vyšetření / odběru

B - Flexibilita týkající se techniky

C - Flexibilita týkající se analytů/parametrů

D - Flexibilita týkající se vyšetřovaného materiálu

Není-li uveden žádný stupeň volnosti, nemůže laboratoř pro dané vyšetření uplatňovat flexibilní přístup k rozsahu akreditace.

HRM High resolution melting

PCR Polymerázová řetězová reakce

Real-Time PCR PCR v reálném čase

NGS-MPS Masivně paralelní sekvenování

MLPA Multiplex Ligation-Dependent Probe Amplification