

## List of activities within the flexible scope of accreditation

**Accredited Body:** Bioptická laboratoř s. r. o.  
**CAB Name:** Bioptická laboratoř s. r. o.  
**CAB Number:** 8027  
**Certificate of Accreditation No.:** 438/2024  
**Field of Accreditation:** Medical Laboratory - ČSN EN ISO 15189 ed. 3:2023  
**Updated:** 02/18/2025

1. **Biopsy Section – Section B** Mikulášské nám. 628/4, 326 00 Plzeň  
Mikulášské nám. 589/5, 326 00 Plzeň  
Rejskova 614/8, 326 00 Plzeň  
Rejskova 855/10, 326 00 Plzeň

### Examinations:

Ordinal Number	Analyte/ parameter/diagnostics	Principle of examination	Identification of method procedure/ equipment	Examined material	Degrees of freedom <sup>1</sup>
<b>823 - Pathology Laboratory</b>					
1.	Histological examination and diagnostics	Microscopy	SOP-01, v. 14	Tissues	A, B
2.	Histological examination and diagnostics	Microscopy	SOP-02, v. 14	Hard tissues	A, B
3.	Cytological examinations and diagnostics	Microscopy	SOP-03, v. 15	Cells from puncture of tissue, body fluids and pathological cavity content	A, B
4.	Immunohistochemical and immunocytochemical examination of antigens	Microscopy	SOP-05, v. 14; N-B-32, v. 29; P-B-17, v. 11	Tissues, cells	A, B, C

### Specification of the scope of accreditation:



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823/4	<p>Antibodies: Actin, (Muscle); Smooth Muscle Actin; Anti-Human Cytokeratin; <math>\alpha</math>-1-Fetoprotein (AFP); Anti- ALK 1, CONFIRM; Anti-Human P 504S; Androgen Receptor; BCL2 Oncoprotein; BCL6 Protein; Epithelial Antigen; Beta-catenin; Anti-Human Kappa Light Chains; Anti-Human Lambda Light Chains; BOB.1 (SP92) Rabbit Monoclonal Antibody; C4d; Calcitonin; Caldesmon; Calponin; Calretinin, CONFIRM; Anti-Cytokeratin CAM 5,2; CD 1a; CD 10; CD 105, Endoglin; CD 117, c-kit; CD 13; CD 138; CD14; CD 15, CONFIRM; CD 16; CD 163; CD 2; CD20 , CONFIRM; CD 21; Anti-Human CD 23; CD 25; CD 3; CD 30; Endothelial Cell; CD 33; CD 34, class II; Purified Mouse Anti-Human CD34; CD 35; Anti-Human CD4; CD 42b (GPIb); CD 43; CD 5; CD 56(NCAM); CD 57; CD 61; CD 68; CD 7; CD 79a; CD 8; CD 99, CONFIRM; CDX2; Carcinoembryonie Antigen (CEA); c-erbB Oncoprotein (internal domain); Cytokeratin 10/13; Cytokeratin 14; Cytokeratin 17; Cytokeratin 18; Cytokeratin 19; Cytokeratin 20; Cytokeratin 5; Cytokeratin 5/6; Cytokeratin 7; Cytokeratin (35betaH11); Cytokeratin; Cytomegalovirus; Follicular Dendritic Cell; COX-2; Cyclin A; Anti-Human Cyclin D1; Cyclin D1/bcl1; Monoclonal Mouse Anti-Human Podoplanin; Desmin; Dog – 1; Epstein-Barr Virus, LMP; E-cadherin; Epidermal Growth Factor Receptor (EGFR); Epithelial Membrane Antigen (EMA); Estrogen Receptor <math>\alpha</math>; Factor VIII Related Antigen; Factor XIIIa; Galectin 3; Gastrin; GCDFP-15; Glial Fibrillary Acidit Protein; Glycophorin A; Human Chorionic Gonadotropin; Leukaemia, Hairy Cell; HER-2/neu; HercepTest<sup>TM</sup>; HHV 8 (Human Herpes Virus Type 8); Melanosome; Human Placental Lactogel (hPL); HSA (Hepatocyte Specific Antigen); Chromogranin A; IgA (Immunoglobulin A); IgD (Immunoglobulin D); IgG (Immunoglobulin G); IgM (Immunoglobulin M); mouse anti-human IgG 4; Inhibin ; Anti-Insulin; Cytokeratin HMW; Anti- LCT ; Laminin; Lin28; Lysozyme; Mast Cell Tryptase; MCM3 Protein; Melan-A; Mammaglobin; Anti-Mitochondrial Antigen; Ki-67 ; MITF (Microphthalmia Transcription Factor); MLH 1; Myeloperoxidase; MSH 2; MSH 6 ; MUC 2; MUC 5 AC; MUC 6; MyoD1; Myogenin; Myosin, Smooth Musle; Nanog; Neurofilament 200 kD; Neurofilament; Anti-Melanoma Associated Antigen; nm23 Protein; c-erbB Oncoprotein (external domain); Neuron Specific Enolase; OCT <math>\frac{3}{4}</math>; Oct-2; Cytokeratin OSCAR; p16 – Protein; p21WAF1; p 27 ; p53 Protein; p63 Protein; PSAP (Prostatic Acid Phosphatase); Parvalbumin (Alpha); PAX 5, CONFIRM; PAX 8; PD-1 (NAT105) Mouse Monoclonal Antibody; Perforin; Peripherin; CD 68; Anti-PLAG1; Placental Alkaline Phosphatase (PLAP); PMS2; Progesterone Receptor; Prostate Specific Antigen (PSA); S 100; SALL 4; Anti-SDHB; Serotonin; Anti-SOX 11; Anti-STAT5a antibody; Synaptophysin; CD45,Leucocyte Common Antigen; TdT Terminal Deoxynucleotidyl Transferase; TFE 3; Thyroglobulin; Thyroglobulin; Thyroid Peroxidase (TPO); TRAcP (Tartrate-Resistant Acid Phosphatase); Anti-Thyroid Transcription Faktor (TTF-1); Anti-Thyroid Transcription Faktor (TTF-1); Tyrosinase, CONFIRM; CD45RO; Vimentin; Wilms‘ Tumor 1 (WT 1) Protein; BG-8; anti-ERG; anti-Glypican 3; Napsin A; PIN-Cocktail (P5045 + p63); CD 123; Anti-Human Cytokeratin 10; GATA-3; Anti – glutamine synthetase; anti-INI-1; Mesothelin; anti-p120 catenin; P40; Anti – ATRX antibody; Anti-Clusterin <math>\alpha</math> chain (human); Anti-Mucin monoclonal antibody M-GGMC-1; Anti – Bcl-2 antibody; cd k4 Monoclonal Antibody, Mouse; Recombinant Anti-PRAME antibody; Anti-Human IMP3; Anti-Human LMO2 Monoclonal Antibody; VEGF Receptor 2 (55B11) Rabbit mAb ; NUT (C52B1) Rabbit mAb; NKX3.1; Prostein (Synonyma antigenu P501S); anti-BRAF V600E Mouse Monoclonal Primary Antibody; Langerin Mouse Monoclonal Antibody; Anti-SOX 9 antibody; Brachyury, RMab; Claudin 1; MUM 1 protein; Anti – TIA-1; Anti – Arginase-1; Anti – Hemoglobin A; Anti – Pancreatic Amylase; Anti – Pancreatic Lipase; Mouse Monoclonal Antibody Parathyroid Hormone; <math>\alpha</math>-1-Antitrypsin (AAT); Fli-1; GLUT-1; PDGFR alpha; SOX-10; Adrenocorticotropin (ACTH); Mouse anti-Claudin-5; Anti-Claudin 5; Anti - c- Myc antibody; E-Cadherin (RM); Granzym B; Anti – Histone H3 antibody; MDM2; BAP1 (C-4) monoclonal antibody; CD 11c; Anti-Human CD15; CD 56 Rabbit Monoclonal Antibody; Anti - C Reactive Protein; Anti – HNF1B antibody produced in rabbit; Anti-Islet 1 antibody [1H9]; Anti – NKX6-1 antibody; Ani- LEF1 antibody; Anti-LYVE1 antibody - Lymphatic Vessel Marker; MCPyV large T-antigen Antibody; Nerve</p>



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	<p>Growth Factor Receptor (NGFR); Olig2 Antibody; Anti-Smoothelin; TLE1 (M-101) monoclonal antibody; TrkA (12G8) Rabbit mAb; Collagen Type IV; anti-MUC1 Mouse Monoclonal Primary Antibody; Cytochrome P450 Aromatase Antibody; Phosphohistone H3 (PHH3); SATB2 (EP281) Rabbit Monoclonal Primary Antibody; Anti - SATB2 antibody; Anti-STAT6 antibody; Stat6 (S-20); Anti-serum amyloid A (AA); ERG; Anti-v-Myb + c-Myb antibody; Phospho-S6 Ribosomal Protein (Ser235/236); Prospero Homeobox 1 (PROX1) (C-Term) antibody; Anti – SDHA antibody; Anti-Somatostatin Receptor 2 antibody; Annexin A10; Anti FABP1; Anti - Hsp70 ,(Heath shock protein); Anti – Human IDH1 R132H; ROS1 (D4D6®) Rabbit mAb; SOX-2; Purified anti-human VEGFR-3 (FLT-4); Anti-Human C3c Complement/FITC; Anti-Human Fibrinogen/FITC; Anti-Human IgA/FITC; Anti-Human IgG/FITC; Anti-Human IgM/FITC; Anti-Hydrogen Potassium ATPase Beta antibody; MIST1 (6E8); Anti-Pepsinogen I antibody; Anti-RUNX3 antibody; Anti-FSH; Anti-GH – Growth Hormon; Anti-LH; Anti-Prolactin; Anti-TSH; Anti-CA6 antibody produced in rabbit; CAMTA1 antibody; Anti-CCNB3 antibody produced in rabbit; Anti-CD 64 antibody; Anti-DMRT1 antibody; Anti-FGF-23 (human); Anti-Neuronal Nuclei (NeuN); Anti-p 16 rabbit monoclonal antibody; Anti-Human Plasma Cell; Stathmin (D1Y5A) Rabbit mAb; Fascin; FosB (5G4) Rabbit mAb; Tri-Methyl-Histone H3 (Lys27) Rabbit mAb; HMGA2 (D1A7) Rabbit mAb; Nkx2.2 transcription factor; PD-L1 (E1L3N®) XP® Rabbit mAb; PD-L2 (D7U8C) XP® Rabbit mAb; Anti-Human PTEN; Skp2 p45 (H-435); BCoR antibody (c 10); Anti-BCOR antibody produced in rabbit ; CD 71; Ezh2 (D2C9) XP® Rabbit mAb; Anti-Histone H3.3 G34W; INSM 1 (A-8); Anti – Histone H3 Antibody, K27M mutant; Anti-Epithelial Related Antigen (MOC-31); Pit-1 (D-7) monoclonal antibody; Anti-BRG1 Antibody; Anti- Trypsin Antibody; ICOS Monoclonal Antibody; CXCL13 Polyclonal Antibody; Telomerase (hEst2/TERT) Antibodies; MYF-5 Antibody; Uroplakin II Monoclonal Antibody; Mucin 4 (1G8); Anti-PHOX2B antibody - C-terminal; Myoglobin; Anti- HMGA1 antibody; Nestin (10c2) monoclonal antibody; PRDM10; Anti – PRKD1 antibody; CD246-ALKI; Monoclonal Mouse Anti-Human PD-L1; VENTANA PD-L1 (SP142) Assay; Purified Mouse Anti- PKA [RI]; Claudin 4 Monoclonal Antibody; PAX 7 antibody; Anti-Histone H3 (di methyl K27) antibody - ChIP Grade; NOR-1 Antibody; Anti-Steroidogenic Factor 1/SF-1 antibody; FOXL2 Antibody; SS18-SSX (E9X9V) XP® Rabbit mAb; SSX (E5A2C) Rabbit mAb (Carboxy-terminal Antigen); T-Box 19 antibody; Anti-ARID1 A antibody; MTAP monoclonal antibody (M01); Anti-PAN Trk antibody; Anti-CLDN 18 rabbit antibody; SARS-CoV-2; SARS-CoV-2/ SARS-CoV-2 spike antibody; Anti-c-Fos antibody; Anti-DDIT3 antibody; fumarate hydratase (J-13); Anti-HLA Class 1 ABC antibody; Anti-SNARCA2 antibody; Anti-Nurr1 antibody; Anti-CXorf67 antibody produced in rabbit; Anti – Histone H3 K27M Rabbit Monoclonal Antibody; Tri-Methyl-Histone H3 (Lys27) (C36B11) Rabbit mAb; Anti-IFITM1 antibody produced in rabbit; IGSF4B/SynCAM3; TRPS1 Polyclonal Antibody; Anti-Metallothionein antibody [UC1MT]; CD19 antibody; Anti-CD171; Anti-MAP2; Anti-SOX-17; DUX4 Monoclonal Antibody (P4H2); POU2F3 Antibody (6D1); Purified Mouse Anti-Human PU.1; Purified Mouse Anti-Human Retinoblastoma Protein; YAP (D8H1X) XP® Rabbit mAb; CINtec® PLUS Cytology Kit</p>



## List of activities within the flexible scope of accreditation

2. Cytology section – Section C Mikulášské nám. 392/7, 326 00 Plzeň  
Barrandova 392/2, 326 00 Plzeň  
Barrandova 388/4, 326 00 Plzeň

### Examinations:

Ordinal Number	Analyte/ parameter/diagnostics	Principle of examination	Identification of method procedure/ equipment	Examined material	Degrees of freedom <sup>1</sup>
<b>817 - Clinical Cytology Laboratory</b>					
1.	Cerviko-vaginal cytological examination and diagnostics (screening)	Microscopy	SOP-06, v. 6; P-D-1, v. 9; P-D-2, v. 2; P-D-5, v. 1	Cells from the cervix, vagina and vulva	A, B
2.	Examination of gynecologic cytology in thin layer (LBC)	Microscopy	SOP-17, v. 6; P-D-3, v. 6; P-D-4, v. 2; P-D-5, v. 1	Cells from the cervix, vagina and vulva	A, B

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### 3. Molecular-genetics section – Section G Rejskova 855/10, 326 00 Plzeň Rejskova 560/12, 326 00 Plzeň

#### Examinations:

Ordinal Number	Analyte/ parameter/diagnostics	Principle of examination	Identification of method procedure/ equipment	Examined material	Degrees of freedom <sup>1</sup>
<b>802 – Medical Microbiology</b>					
1.	Detection of nucleic acids of infectious agents	PCR – Direct sequencing	SOP-18, v. 8; P-G-6, v. 6; P-G-8, v. 17; P-G-11, v. 9; P-G-14, v. 5; P-G-17, v. 6; ABI Prism 3130XL	Tissues, swabs and body fluids	A, B, C, D
2.	Detection of nucleic acids of infectious agents	Real-Time PCR	SOP-19, v. 8; P-G-8, v. 17; P-G-11, v. 9; P-G-17, v. 6; Alinity_m;	Tissues, swabs and body fluids	A, B, C, D
3.	Detection of nucleic acids of infectious agents	TMA	SOP-21, v. 4; P-G-19, v. 3; Panther	Swabs, urine	A, B, C, D
<b>816 – Medical Genetics Laboratory</b>					
1.	Examination of chromosomal aberrations	FISH	SOP-07, v. 11; P-G-1, v. 11	Tissues, swabs and body fluids	A, B, C, D
2.	Examination of somatic genome variants	Direct sequencing	SOP-09, v. 9; P-G-6, v. 6; P-G-8, v. 17; P-G-11, v. 9; P-G-14, v. 5; P-G-17, v. 6; ABI Prism 3130XL	Tissues, swabs and body fluids	A, B, C, D

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Ordinal Number	Analyte/parameter/diagnostics	Principle of examination	Identification of method procedure/equipment	Examined material	Degrees of freedom <sup>1</sup>
3.	Examination of somatic genome variants	PCR - Fragment analysis	SOP-14, v. 6; P-G-6, v. 6; P-G-7, v. 4; P-G-8, v. 17; P-G-11, v. 9; P-G-17, v. 6; SOP-27, v. 2; P-G-6, v. 6; P-G-8, v. 17; P-G-11, v. 9; P-G-17, v. 6; SOP-25, v. 1; P-G-7, v. 4; P-G-8, v. 17; P-G-11, v. 9; P-G-17, v. 6; ABI Prism 3130XL	Tissues, swabs and body fluids	A, B, C, D
4.	Examination of somatic genome variants	NGS – MPS	SOP-22, v. 11; P-G-8, v. 17; P-G-9, v. 11; P-G-11, v. 9; P-G-17, v. 6; P-G-24, v. 4; P-G-30, v. 5; P-G-34, v. 3; P-G-35, v. 1; P-G-36, v. 2; P-G-37, v. 3; P-G-38, v. 2; P-G-39, v. 2; P-G-40, v. 1; P-G-41, v. 1; P-G-42, v. 1, P-G-43, v. 1; P-G-44, v. 1; P-G-45, v. 1; P-G-46, v. 1; P-G-47, v. 1; P-G-48, v. 1; P-G-49, v. 1; P-G-51, v. 1; P-G-52, v. 1; NovaSeq 6000; NextSeq 500; NextSeq 550	Tissues, swabs and body fluids	A, B, C, D
5.	Examination of germline genome variants	Real-Time PCR	SOP-23, v. 6; P-G-8, v. 17; P-G-9, v. 11, P-G-11, v. 9;	Tissues, swabs and body fluids	A, B, C, D
6.	Noninvasive prenatal testing (NIPT)	NGS – MPS	SOP-24, v. 1; P-G-8, v. 17; P-G-24, v. 4; P-G-25, v. 3; NextSeq 500; NextSeq 550	Blood, plasma	A, B, C



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7.	Examination of somatic genome variants	aCGH	SOP-26, v. 1; P-G-8, v. 17; P-G-24, v. 4; P-G-50, v. 2; P-G-53, v. 1; Infinium Methylation EPIC V2.0 kit; NextSeq 550	Tissues, swabs and body fluids	A, B, C, D
8.	Examination of somatic genome variants	Real-Time PCR	SOP-27, v. 2; P-G-8, v. 17; P-G-11, v. 9; SOP-23, v. 6; P-G-8, v. 17; P-G-9, v. 11, P-G-11, v. 9	Tissues, swabs and body fluids	A, B, C, D
<b>817 - Clinical Cytology Laboratory</b>					
1.	Detection and typization of human papillomavirus	Real-Time PCR	SOP-19, v. 8; P-G-8, v. 17; P-G-11, v. 9; P-G-17, v. 6; Alinity_m	Swabs and body fluids	A, B, C, D
2.	Detection and typization of human papillomavirus	TMA	SOP-21, v. 4; P-G-18, v. 3; Panther	Swabs and body fluids	A, B, C, D
<b>823 - Pathology Laboratory</b>					
1.	Examination of chromosomal aberrations	FISH	SOP-07, v. 11; P-G-1, v. 11	Tissues, swabs and body fluids	A, B, C, D

### List of activities within the flexible scope of accreditation

Ordinal Number	Analyte/parameter/diagnostics	Principle of examination	Identification of method procedure/equipment	Examined material	Degrees of freedom <sup>1</sup>
2.	Examination of somatic genome variants	NGS – MPS	SOP-22, v. 11; P-G-8, v. 17; P-G-9, v. 11; P-G-11, v. 9; P-G-17, v. 6; P-G-24, v. 4; P-G-30, v. 5; P-G-34, v. 3; P-G-35, v. 1; P-G-36, v. 2; P-G-37, v. 3; P-G-38, v. 2; P-G-39, v. 2; P-G-40, v. 1; P-G-41, v. 1; P-G-42, v. 1, P-G-43, v. 1; P-G-44, v. 1; P-G-45, v. 1; P-G-46, v. 1; P-G-47, v. 1; P-G-48, v. 1; P-G-49, v. 1; P-G-51, v. 1; P-G-52, v. 1; NovaSeq 6000; NextSeq 500; NextSeq 550	Tissues, swabs and body fluids	A, B, C, D
3.	Examination of somatic genome variants	Real-Time PCR	SOP-23, v. 6; P-G-8, v. 17; P-G-9, v. 11, P-G-11, v. 9; SOP-27, v. 2; P-G-8, v. 17; P-G-11, v. 9	Tissues, swabs and body fluids	A, B, C, D
4.	Examination of somatic genome variants	Direct sequencing	SOP-09, v. 9; P-G-6, v. 6; P-G-8, v. 17; P-G-11, v. 9; P-G-14, v. 5; P-G-17, v. 6; ABI Prism 3130XL	Tissues, swabs and body fluids	A, B, C, D
5	Examination of somatic genome variants	PCR - Fragment analysis	SOP-25, v. 1; P-G-7, v. 4; P-G-8, v. 17; P-G-11, v. 9; P-G-17, v. 6; ABI Prism 3130XL	Tissues, swabs and body fluids	A, B, C, D



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### Specification of the scope of accreditation:

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802/1	Examined microorganisms: <i>Bartonella</i> spp., <i>Borrelia burgdorferi</i> , <i>Brucella</i> spp., <i>Francisella tularensis</i> , <i>Mycobacterium</i> spp., <i>Mycobacterium tuberculosis</i> complex, <i>Tropheryma whipplei</i> , <i>Yersinia pseudotuberculosis</i> , JCV, BKV, HSV1, HSV2, EBV, HHV6, HHV8, HPV
802/2	Examined microorganisms: <i>Francisella tularensis</i> , <i>Treponema pallidum</i> , <i>Mycobacterium</i> spp., <i>Haemophilus ducreyi</i> , <i>Chlamydia trachomatis</i> , <i>Neisseria gonorrhoeae</i> , <i>Trichomonas vaginalis</i> , <i>Ureaplasma urealiticum</i> , <i>Ureaplasma parvum</i> , <i>Mycoplasma genitalium</i> , <i>Mycoplasma hominis</i> , Adenovirus, ParvovirusB19, BKV, JCV, CMV, HSV1, HSV2, HHV6, VZV, EBV, HPV,
802/3	Examined microorganisms: <i>Chlamydia trachomatis</i>
816/1	Examined genes/loci: amplifikace genů <i>EGFR</i> , <i>HER2</i> , <i>MDM2</i> , <i>MYC</i> , <i>MYCN</i> a <i>TFEB</i> ; delece genu <i>CDKN2A</i> , lokusů 1p36, 19q13, a chromosomu 10; zlom genů <i>ALK</i> , <i>BCL1</i> , <i>BCL2</i> , <i>BCL6</i> , <i>CSF1</i> , <i>DEK</i> , <i>ERG</i> , <i>ETV6</i> , <i>EWSR1</i> , <i>FLI1</i> , <i>FUS</i> , <i>HMGA2</i> , <i>IGH</i> , <i>MALT1</i> , <i>MAML2</i> , <i>MYB</i> , <i>MYBL1</i> , <i>MYC</i> , <i>NR4A3</i> , <i>PDGFB</i> , <i>PHF1</i> , <i>PLAG1</i> , <i>TFE3</i> , <i>TFEB</i> , <i>ROS1</i> a <i>USP6</i> ; fúze genů <i>API2::MALT1</i> , <i>IGH::BCL1</i> , <i>IGH::BCL2</i> , <i>IGH::MYC</i>
816/2	Examined genes: <i>IDH1</i> , <i>IDH2</i> , <i>TERT</i>
816/3	Examined genes: <i>IgH</i> , <i>IgK</i> , <i>IgL</i> , <i>TCR β</i> , <i>TCR δ</i> , <i>TCR γ</i> ; examined loci: AML, D13S305, D13S325, D13S628, D13S634, D13S742, D13S762, D13S797, D13S800, D13S317, D18S386, D18S391, D18S535, D18S819, D18S976, D18S1002, D18S390, D18S878, D21S11, D21S1246, D21S1409, D21S1435, D21S1442, D21S1444, D21S1437, DXS6854, DXYS218, SRY, TAF9B, XHPRT, DXS6803, DXS6809, DXS8377, DXYS267, G10_STS47, D7S820, D2S1338, D16S539, FGA, CSF1PO; examined loci MSI (BAT-25, BAT-26, NR-21, NR-24 a MONO-27), examined promotors <i>MGMT</i> , <i>MLH1</i> (metylation)
816/4	Examined genes: <i>ABCC3</i> , <i>ABII</i> , <i>ABL1</i> , <i>ABL2</i> , <i>ABLIM1</i> , <i>ACACA</i> , <i>ACE</i> , <i>ACER1</i> , <i>ACKR3</i> , <i>ACSBG1</i> , <i>ACSL3</i> , <i>ACSL6</i> , <i>ACVR1</i> , <i>ACVR1B</i> , <i>ACVR1C</i> , <i>ACVR2A</i> , <i>ADD3</i> , <i>ADM</i> , <i>AFF1</i> , <i>AFF3</i> , <i>AFF4</i> , <i>AGR3</i> , <i>AHCYL1</i> , <i>AHII</i> , <i>AHR</i> , <i>AHRR</i> , <i>AICDA</i> , <i>AIP</i> , <i>AK2</i> , <i>AK5</i> , <i>AKAP12</i> , <i>AKAP6</i> , <i>AKAP9</i> , <i>AKRIC3</i> , <i>AKT1</i> , <i>AKT2</i> , <i>AKT3</i> , <i>ALDH1A1</i> , <i>ALDH2</i> , <i>ALDOC</i> , <i>ALK</i> , <i>ALOX12B</i> , <i>AMER1</i> , <i>AMH</i> , <i>ANGPT1</i> , <i>ANKRD11</i> , <i>ANKRD26</i> , <i>ANKRD28</i> , <i>ANLN</i> , <i>APC</i> , <i>APH1A</i> , <i>APLP2</i> , <i>APOD</i> , <i>AR</i> , <i>ARAF</i> , <i>ARFRP1</i> , <i>ARHGAP20</i> , <i>ARHGAP26</i> , <i>ARHGAP6</i> , <i>ARHGEF12</i> , <i>ARHGEF7</i> , <i>ARID1A</i> , <i>ARID1B</i> , <i>ARID2</i> , <i>ARID5B</i> , <i>ARIH2</i> , <i>ARNT</i> , <i>ARRDC4</i> , <i>ASB13</i> , <i>ASMTL</i> , <i>ASPH</i> , <i>ASPSCR1</i> , <i>ASTN2</i> , <i>ASXL1</i> , <i>ASXL2</i> , <i>ATF1</i> , <i>ATF3</i> , <i>ATG13</i> , <i>ATG5</i> , <i>ATIC</i> , <i>ATL1</i> , <i>ATM</i> , <i>ATP1B4</i> , <i>ATP8A2</i> , <i>ATR</i> , <i>ATRNL1</i> , <i>ATRX</i> , <i>AURKA</i> , <i>AURKB</i> , <i>AUTS2</i> , <i>AXIN1</i> , <i>AXIN2</i> , <i>AXL</i> , <i>B2M</i> , <i>BAG4</i> , <i>BACH1</i> , <i>BACH2</i> , <i>BAIAP2L1</i> , <i>BAP1</i> , <i>BARD1</i> , <i>BATF3</i> , <i>BAX</i> , <i>BAZ2A</i> , <i>BBC3</i> , <i>BCAS3</i> , <i>BCAS4</i> , <i>BCL10</i> , <i>BCL11A</i> , <i>BCL11B</i> , <i>BCL2</i> , <i>BCL2A1</i> , <i>BCL2L1</i> , <i>BCL2L11</i> , <i>BCL2L2</i> , <i>BCL3</i> , <i>BCL6</i> , <i>BCL7A</i> , <i>BCL9</i> , <i>BCOR</i> , <i>BCORL1</i> , <i>BCR</i> , <i>BDNF</i> , <i>BHLHE22</i> , <i>BICC1</i> , <i>BINI</i> , <i>BIRC3</i> , <i>BIRC6</i> , <i>BLM</i> , <i>BLNK</i> , <i>BMF</i> , <i>BMP4</i> , <i>BMP7</i> , <i>BMPRIA</i> , <i>BRAF</i> , <i>BRCA1</i> , <i>BRCA2</i> , <i>BRD1</i> , <i>BRD3</i> , <i>BRD4</i> , <i>BRIP1</i> , <i>BRSK1</i> , <i>BRWD3</i> , <i>BTBD18</i> , <i>BTG1</i> , <i>BTG2</i> , <i>BTK</i> , <i>BTLA</i> , <i>BUB1B</i> , <i>C11orf1</i> , <i>C11orf30</i> , <i>C11orf54</i> , <i>C11orf95</i> , <i>C2CD2L</i> , <i>C2orf44</i> , <i>C3orf27</i> , <i>CACNA1F</i> , <i>CACNA1G</i> , <i>CACNA2D3</i> , <i>CAD</i> , <i>CALCA</i> , <i>CALR</i> , <i>CAMK2A</i> , <i>CAMK2B</i> , <i>CAMK2G</i> , <i>CAMTA1</i> , <i>CANT1</i> , <i>CAPRINI</i> , <i>CAPZB</i> , <i>CARD11</i> , <i>CARM1</i> , <i>CARS</i> , <i>CASC5</i> , <i>CASP3</i> , <i>CASP7</i> , <i>CASP8</i> , <i>CAVI</i> , <i>CBFA2T3</i> , <i>CBFB</i> , <i>CBL</i> , <i>CBLB</i> , <i>CBLC</i> , <i>CCAR2</i> , <i>CCDC28A</i> , <i>CCDC50</i> , <i>CCDC6</i> , <i>CCDC88C</i> , <i>CCK</i> , <i>CCL2</i> , <i>CCNA2</i> , <i>CCNB1IP1</i> , <i>CCNB3</i> , <i>CCND1</i> , <i>CCND2</i> , <i>CCND3</i> , <i>CCNE1</i> , <i>CCNG1</i> , <i>CCT6B</i> , <i>CD19</i> , <i>CD22</i> , <i>CD274</i> , <i>CD276</i> , <i>CD28</i> , <i>CD36</i> , <i>CD44</i> , <i>CD58</i> , <i>CD70</i> , <i>CD74</i> , <i>CD79A</i> , <i>CD79B</i> , <i>CD8A</i> , <i>CDC14A</i> , <i>CDC14B</i> , <i>CDC25A</i> , <i>CDC25C</i> , <i>CDC42</i> , <i>CDC73</i> , <i>CDH1</i> , <i>CDH11</i> , <i>CDK1</i> , <i>CDK12</i> , <i>CDK2</i> , <i>CDK4</i> , <i>CDK5RAP2</i> , <i>CDK6</i> , <i>CDK7</i> , <i>CDK8</i> , <i>CDK9</i> , <i>CDKL5</i> , <i>CDKN1A</i> , <i>CDKN1B</i> , <i>CDKN1C</i> , <i>CDKN2A</i> , <i>CDKN2B</i> , <i>CDKN2C</i> , <i>CDKN2D</i> , <i>CDX1</i> , <i>CDX2</i> , <i>CEBPA</i> , <i>CEBPB</i> , <i>CEBPD</i> , <i>CEBPE</i> , <i>CEBPG</i> , <i>CENPA</i> ,



List of activities within the flexible scope of accreditation

Field Nr. / Ordinal Number	Detailed information on activities within the scope of accreditation
	<p>CENPF, CENPU, CEPI70B, CEP57, CEP85L, CIC, CIITA, CIRH1A, CIT, CKB, CKS1B, CLP1, CLTA, CLTC, CLTCL1, CMKLR1, CNBP, CNOT2, CNTNI, CNTRL, COG5, COL11A1, COL1A1, COL1A2, COL3A1, COL6A3, COL9A3, COMMD1, COX6C, CPNE1, CPS1, CPSF6, CRADD, CREB1, CREB3L1, CREB3L2, CREBBP, CRKL, CRLF2, CRTCI, CRTC3, CSF1, CSF1R, CSF3, CSF3R, CSNK1A1, CSNK1G2, CSNK2A1, CTCF, CTDSP2, CTLA4, CTNNA1, CTNNB1, CTNND2, CTRB1, CTSA, CUL3, CUX1, CXCL8, CXCR4, CXXC4, CYB5R2, CYFIP2, CYLD, CYP1B1, CYP2C19, DAB2IP, DACHI, DACH2, DAXX, DCK, DCLK2, DCN, DCUN1D1, DDB2, DDIT3, DDR2, DDX10, DDX20, DDX39B, DDX3X, DDX41, DDX5, DDX6, DEK, DENND3, DGKB, DGKI, DGKZ, DHX15, DICER1, DIRAS3, DIS3, DIS3L2, DKK1, DKK2, DKK4, DLEC1, DLEU1, DLL1, DLL3, DLL4, DMRT1, DMRTA2, DNAJB1, DNMI, DNM2, DNM3, DNMT1, DNMT3A, DNMT3B, DNMT3C, DNMT3L, DNMT3D, DNMT3E, DNMT3F, DNMT3G, DNMT3H, DNMT3I, DNMT3J, DNMT3K, DNMT3L, DNMT3M, DNMT3N, DNMT3O, DNMT3P, DNMT3Q, DNMT3R, DNMT3S, DNMT3T, DNMT3U, DNMT3V, DNMT3W, DNMT3X, DNMT3Y, DNMT3Z, DNMT3AA, DNMT3AB, 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DNMT3ZU, DNMT3ZV, DNMT3ZW, DNMT3ZX, DNMT3ZY, DNMT3ZZ</p>



List of activities within the flexible scope of accreditation

Field Nr. / Ordinal Number	Detailed information on activities within the scope of accreditation
	<p>LFNG, LGALS3, LGR5, LHFP, LHX2, LHX4, LIFR, LIMD1, LINC00598, LINC00982, LINGO2, LMBRD1, LMO1, LMO2, LMO7, LNP1, LOX, LPAR1, LPP, LPXN, LRIG3, LRMP, LRP1B, LRP5, LRPPRC, LRRC37B, LRRC59, LRRC7, LRRK2, LTBP1, LYL1, LYN, LZTR1, LZTS1, MACROD1, MAD2L1, MADD, MAF, MAFB, MAGED1, MAGEE1, MAGI2, MAL, MALATI, MALTI, MAML1, MAML2, MAML3, MAP2, MAP2K1, MAP2K2, MAP2K3, MAP2K4, MAP2K5, MAP2K6, MAP2K7, MAP3K1, MAP3K13, MAP3K14, MAP3K3, MAP3K4, MAP3K6, MAP3K7, MAP3K8, MAPK1, MAPK3, MAPK8, MAPK8IP2, MAPK9, MAPRE1, MAST1, MAST2, MATK, MAX, MB21D2, MBNL1, MBTD1, MCL1, MDC1, MDH1, MDM2, MDM4, MDS2, MEAF6, MECOM, MED12, MEF2B, MEF2C, MEF2D, MELK, MEN1, MET, METTL18, METTL7B, MFNG, MGA, MGEA5, MGMT, MIB1, MIPOL1, MITF, MKI67, MKL1, MKL2, MLF1, MLH1, MLL, MLLT1, MLLT10, MLLT11, MLLT3, MLLT4, MLLT6, MME, MMP7, MMP9, MN1, MNATI, MNX1, MPL, MRE11A, MSH2, MSH3, MSH6, MSI2, MSMB, MSN, MST1, MST1R, MTCPI, MTG1, MTOR, MTUS2, MUC1, MUSK, MUTYH, MYB, MYBL1, MYC, MYCL, MYCL1, MYCN, MYD88, MYH11, MYH9, MYO18A, MYO1F, MYOD1, NAB2, NACA, NAPA, NAV3, NBEAP1, NBN, NBRI, NCAMI, NCKIPSD, NCOA1, NCOA2, NCOA3, NCOA4, NCOR1, NCOR2, NCSTN, NDC80, NDE1, NDRG1, NDUFAF1, NEDD4, NEG1, NEK6, NEURL1, NF1, NF2, NFATC1, NFATC2, NFE2L2, NFIB, NFKB1, NFKB2, NFKBIA, NGF, NGFR, NIN, NIPBL, NKX2-1, NKX2-5, NKX3-1, NME1, NOD1, NODAL, NONO, NOS3, NOTCH1, NOTCH2, NOTCH3, NOTCH4, NPM1, NPM2, NR3C1, NR4A3, NR6A1, NRAS, NRG1, NSD1, NT5C2, NTF3, NTF4, NTRK1, NTRK2, NTRK3, NUMA1, NUMBL, NUP107, NUP214, NUP93, NUP98, NUTMI, NUTM2A, NUTM2B, OFD1, OLIG1, OLIG2, OLR1, OMD, P2RY8, PAFAH1B2, PAG1, PAICS, PAK1, PAK3, PAK6, PAK7, PALB2, PAPP, PARK2, PARP1, PASK, PATZ1, PAX3, PAX5, PAX7, PAX8, PBRMI, PBXI, PC, PCBPI, PCLO, PCMI, PCNA, PCSK7, PDCD1, PDCD11, PDCD1LG2, PDE4DIP, PDGFA, PDGFB, PDGFD, PDGFRA, PDGFRB, PDK1, PDPK1, PEG3, PER1, PFDN5, PGR, PHB, PHF1, PHF23, PHF6, PHKB, PHOX2B, PI4KA, PICALM, PIK3C2B, PIK3C2G, PIK3C3, PIK3CA, PIK3CB, PIK3CD, PIK3CG, PIK3R1, PIK3R2, PIK3R3, PIMI, PIM2, PIP4K2A, PKM, PKN1, PLA2G2A, PLA2G5, PLAG1, PLAT, PLAU, PLCB1, PLCB4, PLCG1, PLCG2, PLEKHM2, PLK2, PMAIP1, PML, PMS1, PMS2, PNRC1, POFUT1, POLD1, POLD4, POLE, POLR2H, POM121, POMGNT1, POSTN, POT1, POU2AF1, POU5F1, PPAP2B, PPARG, PPARGC1A, PPAT, PPFIA2, PPFIBP1, PPMID, PPP1CB, PPP1R13B, PPP1R13L, PPP2CB, PPP2R1A, PPP2R1B, PPP2R2A, PPP2R2B, PPP2R4, PPP3CA, PPP3CB, PPP3CC, PPP3R1, PPP3R2, PPP4C, PPP6C, PQLC3, PRCC, PRDMI, PRDMI10, PRDMI16, PRDM6, PRDM7, PREX2, PRF1, PRG2, PRICKLE1, PRKACA, PRKACB, PRKACG, PRKARIA, PRKAR2B, PRKCA, PRKCB, PRKCD, PRKCG, PRKCI, PRKDI, PRKD2, PRKD3, PRKDC, PRKG2, PRMT1, PRMT8, PROM1, PRRX1, PRRX2, PRSS8, PSD3, PSEN1, PSIP1, PSMD2, PTBP1, PTCRA, PTEN, PTGS2, PTH, PTCH1, PTK2, PTK2B, PTK7, PTPN1, PTPN11, PTPN2, PTPN6, PTPRA, PTPRD, PTPRK, PTPRO, PTPRR, PTPRS, PTPRT, PTTG1, PVT1, PYCRI, QKI, RAB29, RAB35, RAB7A, RABEP1, RAC1, RAC2, RAC3, RAD21, RAD50, RAD51, RAD51B, RAD51C, RAD51D, RAD52, RAD54L, RAF1, RAG1, RAG2, RALGDS, RANBP1, RANBP17, RANBP2, RAPIGDS1, RARA, RAS1, RAS1L1, RASGEF1A, RASGRF1, RASGRF2, RASGRP1, RB1, RBM10, RBM15, RBM6, RCOR1, RCS1, RECQL4, REEP3, REL, RELA, RELN, RERG, RET, RFWD2, RGS7, RHBDF2, RHEB, RHOA, RHOD, RHOH, RCHY1, RICTOR, RIT1, RLTPR, RMI2, RNF213, RNF43, ROBO1, ROBO2, ROS1, RPA3, RPL22, RPNI, RPN2, RPS19, RPS21, RPS6KA1, RPS6KA2, RPS6KA3, RPS6KA4, RPS6KB1, RPS6KB2, RPTOR, RREB1, RRM1, RRM2B, RSPO2, RSPO3, RTEL1, RTN3, RUNX1, RUNX1T1, RUNX2, RYBP, RYR3, SIPR2, SARNP, SBDS, SCN8A, SDC4, SDHA, SDHAF2, SDHB, SDHC, SDHD, SEC31A, SEPT2, SEPT5, SEPT6, SEPT9, SERP2, SERPINA9, SERPINE1, SERPINF1, SET, SETBP1, SETD2, SETD7, SF3B1, SFPQ, SFRP2, SFRP4, SGK1, SGPP2, SH2B3, SH2D1A, SH2D5, SH3BP1, SH3BP5, SH3D19, SH3GL1, SH3GL2, SHC1, SHC2, SHQ1, SIK3, SIN3A, SIRT1, SKP2, SLC1A2, SLC29A1, SLC34A2, SLC45A3, SLC5A5, SLC7A5, SLCO1B3, SLIT2, SLX4, SMAD2, SMAD3, SMAD4, SMAD6, SMAP1, SMARCA1, SMARCA4, SMARCA5, SMARCB1, SMARCD1, SMC1A, SMC3, SMO, SNAPC3, SNCAIP, SNCG, SNHG5, SNW1, SNX29, SNX9, SOCS1,</p>

List of activities within the flexible scope of accreditation

Field Nr. / Ordinal Number	Detailed information on activities within the scope of accreditation
	<p><i>SOCS2, SOCS3, SOD2, SORBS2, SORT1, SOS1, SOX10, SOX11, SOX17, SOX2, SOX9, SP1, SP3, SPECC1, SPEN, SPOP, SPPI, SPRY2, SPRY4, SPTA1, SPTAN1, SPTBN1, SQSTM1, SRC, SRF, SRGAP3, SRRM3, SRSF2, SRSF3, SS18, SS18L1, SSBP2, SSSI, SSSI2, SSSI4, ST6GAL1, STAG1, STAG2, STAT1, STAT3, STAT4, STAT5A, STAT5B, STAT6, STIL, STK11, STK40, STL, STRBP, STRN, STX5, STYK1, SUFU, SUGP2, SULF1, SUV39H2, SUZ12, SYK, SYP, TACC1, TACC2, TACC3, TAF1, TAF15, TAL1, TAL2, TAOK1, TBL1XR1, TBX15, TBX3, TCEA1, TCEB1, TCF12, TCF3, TCF7L2, TCL1A, TCL6, TCTA, TEAD1, TEAD2, TEAD3, TEAD4, TEC, TENM1, TERC, TERF1, TERF2, TERT, TET1, TET2, TFAP2A, TFDPI, TFE3, TFEB, TFG, TFPT, TFRC, TGFB2, TGFB3, TGFB1, TGFBRI, TGFB2, TGFB3, THADA, THBS1, THRAP3, TIAM1, TIRAP, TLL2, TLR4, TLX1, TLX3, TMEM127, TMEM230, TMEM30A, TMPRSS2, TNC, TNF, TNFAIP3, TNFRSF10B, TNFRSF10D, TNFRSF11A, TNFRSF13B, TNFRSF14, TNFRSF17, TNFRSF6B, TNFSF4, TOP1, TOP2A, TOP2B, TP53, TP53BP1, TP63, TP73, TPD52L2, TPM3, TPM4, TPO, TPR, TRAF2, TRAF3, TRAF5, TRAF7, TRHDE, TRIM24, TRIM27, TRIM33, TRIP11, TRPS1, TSC1, TSC2, TSHR, TTF1, TTK, TTL, TTYH1, TUSC3, TYK2, TYMS, U2AF1, U2AF2, UBE2B, UBE2C, UFC1, UFM1, USP16, USP42, USP5, USP6, USP7, VCAM1, VCP, VEGFA, VEGFC, VGLL2, VGLL3, VHL, VTCN1, VTI1A, WASF2, WDFY3, WDR1, WDR18, WDR70, WDR90, WEE1, WHSC1, WHSC1L1, WIF1, WISP3, WNT10A, WNT10B, WNT11, WNT16, WNT2B, WNT3, WNT4, WNT5B, WNT6, WNT7B, WNT8B, WRN, WSB1, WT1, WWOX, WWTR1, XBP1, XIAP, XKR3, XPA, XPC, XPO1, XRCC2, XRCC6, YAP1, YES1, YPEL5, YTHDF2, YWHAE, YY1AP1, ZBTB16, ZBTB2, ZBTB7A, ZC3H7A, ZC3H7B, ZFH3, ZFP64, ZFPM2, ZFYVE19, ZIC2, ZMIZ1, ZMYM2, ZMYM3, ZMYND11, ZNF207, ZNF217, ZNF24, ZNF331, ZNF384, ZNF444, ZNF521, ZNF585B, ZNF687, ZNF703, ZRSR2</i></p>
816/5	Examined genes: <i>F2, F5, HLA-DQ2/DQ8/DRB, F13, MTHFR, PAI-1, HFE</i>
816/6	Examined chromosomes 13, 18, 21, X, Y; examined microdeletion syndromes: DiGeorge syndrome (22q11), deletion syndrome 1p36, Cri-du-chat syndrom (5p15.2), Prader-Willi/Angelman syndrome (15q11-13).
816/7	Examined CpG loci: <a href="https://emea.illumina.com/products/by-type/microarray-kits/infinium-methylation-epic.html">https://emea.illumina.com/products/by-type/microarray-kits/infinium-methylation-epic.html</a>
816/8	Examined promoters <i>FAM19A4+hsa-mir124-2 (metylase)</i> , examined genes <i>BRAF, EGFR, KRAS, NRAS</i> , vyšetřované lokusy MSI ( <i>ACVF2A, BTBD7, DIDO1, MRE11, RYR3, SEC31A, SULF1</i> ), vyšetřovaná alterace exprese genů <i>NOS2, CCL27, SDHAF2, TBP</i> .
817/1	Examined microorganisms: HR-HPV( <i>typy: 16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66, 68</i> )
817/2	Examined microorganisms: HR-HPV( <i>typy: 16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66, 68</i> )
823/1	Examined genes/loci: amplifikace genů <i>EGFR, HER2, MDM2, MYC, MYCN</i> a <i>TFEB</i> ; delece genu <i>CDKN2A</i> , lokusů 1p36, 19q13, a chromosomu 10; zlom genů <i>ALK, BCL1, BCL2, BCL6, CSF1, DEK, ERG, ETV6, EWSR1, FLII, FUS, HMGA2, IGH, MALT1, MAML2, MYB, MYBL1, MYC, NR4A3, PDGFB, PHF1, PLAG1, TFE3, TFEB, ROS1</i> a <i>USP6</i> ; fúze genů <i>API2::MALT1, IGH::BCL1, IGH::BCL2, IGH::MYC</i>
823/2	Examined genes: <i>ABCC3, ABII, ABL1, ABL2, ABLIM1, ACACA, ACE, ACER1, ACKR3, ACSBG1, ACSL3, ACSL6, ACVR1, ACVR1B, ACVR1C, ACVR2A, ADD3, ADM, AFF1, AFF3, AFF4, AGR3, AHCYL1, AHII, AHR, AHRR, AICDA, AIP, AK2, AK5, AKAP12, AKAP6, AKAP9, AKRIC3, AKTI, AKT2, AKT3, ALDH1A1, ALDH2, ALDOC, ALK, ALOX12B, AMER1, AMH, ANGPT1, ANKRD11, ANKRD26, ANKRD28, ANLN, APC, APH1A, APLP2, APOD, AR, ARAF, ARFRP1, ARHGAP20, ARHGAP26, ARHGAP6, ARHGEF12, ARHGEF7, ARID1A, ARID1B, ARID2, ARID5B, ARIH2, ARNT, ARRDC4, ASB13, ASMTL, ASPH, ASPSCR1, ASTN2, ASXL1, ASXL2, ATF1, ATF3, ATG13, ATG5, ATIC,</i>

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	<p><i>ATL1, ATM, ATP1B4, ATP8A2, ATR, ATRNL1, ATRX, AURKA, AURKB, AUTS2, AXIN1, AXIN2, AXL, B2M, BAG4, BACH1, BACH2, BAIAP2L1, BAPI, BARD1, BATF3, BAX, BAZ2A, BBC3, BCAS3, BCAS4, BCL10, BCL11A, BCL11B, BCL2, BCL2A1, BCL2L1, BCL2L11, BCL2L2, BCL3, BCL6, BCL7A, BCL9, BCOR, BCORL1, BCR, BDNF, BHLHE22, BICC1, BIN1, BIRC3, BIRC6, BLM, BLNK, BMF, BMP4, BMP7, BMPRIA, BRAF, BRCA1, BRCA2, BRD1, BRD3, BRD4, BRIP1, BRSK1, BRWD3, BTBD18, BTG1, BTG2, BTK, BTLA, BUB1B, C11orf1, C11orf30, C11orf54, C11orf95, C2CD2L, C2orf44, C3orf27, CACNA1F, CACNA1G, CACNA2D3, CAD, CALCA, CALR, CAMK2A, CAMK2B, CAMK2G, CAMTA1, CANT1, CAPRIN1, CAPZB, CARD11, CARM1, CARS, CASC5, CASP3, CASP7, CASP8, CAV1, CBFA2T3, CBF3, CBL, CBLB, CBLC, CCAR2, CCDC28A, CCDC50, CCDC6, CCDC88C, CCK, CCL2, CCNA2, CCNB1IP1, CCNB3, CCND1, CCND2, CCND3, CCNE1, CCNG1, CCT6B, CD19, CD22, CD274, CD276, CD28, CD36, CD44, CD58, CD70, CD74, CD79A, CD79B, CD8A, CDC14A, CDC14B, CDC25A, CDC25C, CDC42, CDC73, CDH1, CDH11, CDK1, CDK12, CDK2, CDK4, CDK5RAP2, CDK6, CDK7, CDK8, CDK9, CDKL5, CDKN1A, CDKN1B, CDKN1C, CDKN2A, CDKN2B, CDKN2C, CDKN2D, CDX1, CDX2, CEBPA, CEBPB, CEPD, CEBPE, CEBPG, CENPA, CENPF, CENPU, CEP170B, CEP57, CEP85L, CIC, CIITA, CIRH1A, CIT, CKB, CKS1B, CLP1, CLTA, CLTC, CLTCL1, CMKLR1, CNBP, CNOT2, CNTN1, CNTRL, COG5, COL11A1, COL1A1, COL1A2, COL3A1, COL6A3, COL9A3, COMMD1, COX6C, CPNE1, CPS1, CPSF6, CRADD, CREB1, CREB3L1, CREB3L2, CREBBP, CRKL, CRLF2, CRTCL1, CRTCL3, CSF1, CSF1R, CSF3, CSF3R, CSNK1A1, CSNK1G2, CSNK2A1, CTCF, CTDSP2, CTLA4, CTNNA1, CTNNB1, CTNND2, CTRB1, CTSA, CUL3, CUX1, CXCL8, CXCR4, CXXC4, CYB5R2, CYFIP2, CYLD, CYP1B1, CYP2C19, DAB2IP, DACH1, DACH2, DAXX, DCK, DCLK2, DCN, DCUN1D1, DDB2, DDIT3, DDR2, DDX10, DDX20, DDX39B, DDX3X, DDX41, DDX5, DDX6, DEK, DENND3, DGKB, DGKI, DGKZ, DHX15, DICER1, DIRAS3, DIS3, DIS3L2, DKK1, DKK2, DKK4, DLEC1, DLEU1, DLL1, DLL3, DLL4, DMRT1, DMRTA2, DNAJB1, DNMI, DNM2, DNM3, DNMT1, DNMT3A, DNMT3B, DNNT, DOCK1, DOT1L, DPPI, DPYD, DST, DTX1, DTX4, DUSP2, DUSP22, DUSP26, DUSP9, DUX4, E2F1, E2F2, E2F3, EBF1, ECT2L, EDIL3, EDNRB, EED, EEFSEC, EGF, EGFL7, EGFR, EGR1, EGR2, EGR3, EGR4, EIF1AX, EIF4A1, EIF4A2, EIF4E, ELF4, ELK4, ELL, ELN, ELOVL2, ELP2, EML1, EML4, ENPP2, ENTPD1, EP300, EP400, EPC1, EPCAM, EPHA10, EPHA2, EPHA3, EPHA5, EPHA7, EPHB1, EPHB6, EPO, EPOR, EPS15, ERBB2, ERBB3, ERBB4, ERC1, ERCC1, ERCC2, ERCC3, ERCC4, ERCC5, ERCC6, ERG, ERLIN2, ERFF1, ESR1, ESRRA, ETNK1, ETS1, ETS2, ETV1, ETV4, ETV5, ETV6, EWSR1, EXOC2, EXOSC6, EXT1, EXT2, EYA1, EYA2, EZH2, EZR, FAF1, FAMI23B, FAMI27C, FAMI75A, FAMI9A2, FAMI9A5, FAM216A, FAM46C, FAM64A, FANCA, FANCB, FANCC, FANCD2, FANCE, FANCF, FANCG, FANCI, FANCL, FANCM, FAS, FASLG, FAT1, FBN2, FBXO11, FBXO31, FBXW7, FCGBP, FCGR2B, FCRL4, FEN1, FEV, FGF1, FGF10, FGF13, FGF14, FGF19, FGF2, FGF23, FGF3, FGF4, FGF5, FGF6, FGF7, FGF8, FGF9, FGFR1, FGFR1OP, FGFR1OP2, FGFR2, FGFR3, FGFR4, FGR, FH, FHIT, FHL2, FIGF, FIP1L1, FLCN, FLII, FLNA, FLNC, FLT1, FLT3, FLT3LG, FLT4, FLYWCH1, FN1, FNBPI, FOS, FOSB, FOSL1, FOXA1, FOXL2, FOXO1, FOXO3, FOXO4, FOXP1, FRK, FRMPD4, FRS2, FRYL, FSTL3, FUBP1, FUS, FUT1, FUT8, FYN, FZD10, FZD2, FZD3, FZD6, FZD7, FZD8, GAB1, GABRA6, GABRG2, GADD45B, GANAB, GAS1, GAS5, GAS7, GATA1, GATA2, GATA3, GATA4, GATA6, GBP2, GDF6, GEN1, GFAP, GFII, GFIIIB, GHR, GID4, GIT2, GLI1, GLI2, GLI3, GLIS2, GMPS, GNAI1, GNAI2, GNAI3, GNAIL, GNAQ, GNAS, GNG4, GOLGA5, GOPC, GOSR1, GOT1, GPC3, GPHN, GPI, GPR124, GPR128, GPR34, GPS2, GRB10, GRB2, GRB7, GREM1, GRHRP, GRID1, GRIN2A, GRIN2B, GRM1, GRM3, GSK3B, GSN, GSTT1, GTF2I, GTSE1, H2AFX, H3F3A, H3F3B, H3F3C, HAS2, HDAC1, HDAC2, HDAC3, HDAC4, HDAC5, HDAC6, HDAC7, HECW1, HEPH, HERPUD1, HES1, HES5, HEY1, HGF, HHEX, HIF1A, HIP1, HIPK1, HIPK2, HIST1H1C, HIST1H1D, HIST1H1E, HIST1H2AC, HIST1H2AG, HIST1H2AL, HIST1H2AM, HIST1H2BC, HIST1H2BD, HIST1H2BJ, HIST1H2BK, HIST1H2BO, HIST1H3A, HIST1H3B, HIST1H3C, HIST1H3D, HIST1H3E, HIST1H3F, HIST1H3G, HIST1H3H, HIST1H3I, HIST1H3J,</i></p>



List of activities within the flexible scope of accreditation

Field Nr. / Ordinal Number	Detailed information on activities within the scope of accreditation
	<p><i>HIST1H4I, HIST2H3A, HIST2H3C, HIST2H3D, HIST3H3, HLA-A, HLA-B, HLA-C, HLF, HMGA1, HMGA2, HMGB1, HMGN2P46, HNF1A, HNRNPA2B1, HNRNPK, HOOK3, HOXA10, HOXA11, HOXA13, HOXA3, HOXA9, HOXB13, HOXC11, HOXC13, HOXD11, HOXD13, HOXD9, HRAS, HSD3B1, HSP90AA1, HSP90AB1, HSPA1A, HSPA2, HSPA4, HSPA5, HTRA1, HUWE1, CHD1, CHD2, CHD4, CHD6, CHEK1, CHEK2, CHCHD7, CHIC2, CHL1, CHMP2A, CHMP2B, CHN1, CHST11, CHUK, IBSP, ICAMI, ICK, ICOSLG, ID1, ID3, ID4, IDH1, IDH2, IFNG, IFNGR1, IFRD1, IGF1, IGF1R, IGF2, IGFBP2, IGFBP3, IKBKB, IKBKE, IKZF1, IKZF2, IKZF3, IL10, IL12RB2, IL13, IL13RA2, IL15, IL16, IL1B, IL1R1, IL1RAP, IL2, IL21R, IL2RA, IL3, IL6, IL7R, INHA, INHBA, INPP4A, INPP4B, INPP5A, INPP5D, INSR, IQCG, IRF1, IRF2, IRF2BP2, IRF4, IRF8, IRS1, IRS2, IRS4, ITGA5, ITGA7, ITGA8, ITGAV, ITGB3, ITK, ITPKA, ITPKB, JAG2, JAK1, JAK2, JAK3, JARID2, JAZF1, JUN, KALRN, KANK1, KAT2B, KAT6A, KAT6B, KCNB1, KDM1A, KDM2B, KDM4C, KDM5A, KDM5C, KDM6A, KDR, KDSR, KEAP1, KEL, KIAA0101, KIAA0232, KIAA1524, KIAA1549, KIAA1598, KIF5B, KIT, KLF4, KLHL6, KLK2, KLK7, KMT2A, KMT2B, KMT2C, KMT2D, KPNB1, KRAS, KRT20, KRT7, KSRI, KTN1, LAMA1, LAMA5, LAMP1, LAMP2, LASP1, LATS1, LATS2, LCK, LCPI, LEF1, LEFTY2, LFNG, LGALS3, LGR5, LHFP, LHX2, LHX4, LIFR, LIMD1, LINC00598, LINC00982, LINGO2, LMBRD1, LMO1, LMO2, LMO7, LNP1, LOX, LPAR1, LPP, LPXN, LRIG3, LRMP, LRP1B, LRP5, LRPPRC, LRRC37B, LRRC59, LRRC7, LRRK2, LTBP1, LYL1, LYN, LZTR1, LZTS1, MACROD1, MAD2L1, MADD, MAF, MAFB, MAGED1, MAGEE1, MAGI2, MAL, MALAT1, MALT1, MAMLI, MAML2, MAML3, MAP2, MAP2K1, MAP2K2, MAP2K3, MAP2K4, MAP2K5, MAP2K6, MAP2K7, MAP3K1, MAP3K13, MAP3K14, MAP3K3, MAP3K4, MAP3K6, MAP3K7, MAP3K8, MAPK1, MAPK3, MAPK8, MAPK8IP2, MAPK9, MAPRE1, MAST1, MAST2, MATK, MAX, MB21D2, MBNLI, MBTD1, MCL1, MDC1, MDH1, MDM2, MDM4, MDS2, MEAF6, MECOM, MED12, MEF2B, MEF2C, MEF2D, MELK, MEN1, MET, METTL18, METTL7B, MFNG, MGA, MGEA5, MGMT, MIB1, MIPOL1, MITF, MKI67, MKL1, MKL2, MLF1, MLH1, MLL, MLLT1, MLLT10, MLLT11, MLLT3, MLLT4, MLLT6, MME, MMP7, MMP9, MNI, MNAT1, MNX1, MPL, MRE11A, MSH2, MSH3, MSH6, MSI2, MSMB, MSN, MST1, MST1R, MTCPI, MTG1, MTOR, MTUS2, MUC1, MUSK, MUTYH, MYB, MYBL1, MYC, MYCL, MYCL1, MYCN, MYD88, MYH11, MYH9, MYO18A, MYO1F, MYOD1, NAB2, NACA, NAPA, NAV3, NBEAP1, NBN, NBR1, NCAMI, NCKIPSD, NCOA1, NCOA2, NCOA3, NCOA4, NCOR1, NCOR2, NCSTN, NDC80, NDE1, NDRG1, NDUFAF1, NEDD4, NEGR1, NEK6, NEURL1, NF1, NF2, NFATC1, NFATC2, NFE2L2, NFIB, NFKB1, NFKB2, NFKBIA, NGF, NGFR, NIN, NIPBL, NKX2-1, NKX2-5, NKX3-1, NME1, NOD1, NODAL, NONO, NOS3, NOTCHI, NOTCH2, NOTCH3, NOTCH4, NPM1, NPM2, NR3C1, NR4A3, NR6A1, NRAS, NRG1, NSDI, NT5C2, NTF3, NTF4, NTRK1, NTRK2, NTRK3, NUMA1, NUMBL, NUP107, NUP214, NUP93, NUP98, NUTMI, NUTM2A, NUTM2B, OFD1, OLIG1, OLIG2, OLR1, OMD, P2RY8, PAFAH1B2, PAG1, PAICS, PAK1, PAK3, PAK6, PAK7, PALB2, PAPP, PARK2, PARP1, PASK, PATZ1, PAX3, PAX5, PAX7, PAX8, PBRM1, PBX1, PC, PCBPI, PCLO, PCMI, PCNA, PCSK7, PDCD1, PDCD11, PDCD1LG2, PDE4DIP, PDGFA, PDGFB, PDGFD, PDGFRA, PDGFRB, PDK1, PDPK1, PEG3, PER1, PFDN5, PGR, PHB, PHF1, PHF23, PHF6, PHKB, PHOX2B, PI4KA, PICALM, PIK3C2B, PIK3C2G, PIK3C3, PIK3CA, PIK3CB, PIK3CD, PIK3CG, PIK3R1, PIK3R2, PIK3R3, PIMI, PIM2, PIP4K2A, PKM, PKN1, PLA2G2A, PLA2G5, PLAG1, PLAT, PLAU, PLCB1, PLCB4, PLCG1, PLCG2, PLEKHM2, PLK2, PMAIP1, PML, PMS1, PMS2, PNRC1, POFUT1, POLD1, POLD4, POLE, POLR2H, POM121, POMGNT1, POSTN, POT1, POU2AF1, POU5F1, PPAP2B, PPARG, PPARGC1A, PPAT, PPFIA2, PPFIBP1, PPMID, PPP1CB, PPP1R13B, PPP1R13L, PPP2CB, PPP2R1A, PPP2R1B, PPP2R2A, PPP2R2B, PPP2R4, PPP3CA, PPP3CB, PPP3CC, PPP3R1, PPP3R2, PPP4C, PPP6C, PQLC3, PRCC, PRDM1, PRDM10, PRDM16, PRDM6, PRDM7, PREX2, PRF1, PRG2, PRICKLE1, PRKACA, PRKACB, PRKACG, PRKARIA, PRKAR2B, PRKCA, PRKCB, PRKCD, PRKCG, PRKCI, PRKD1, PRKD2, PRKD3, PRKDC, PRKG2, PRMT1, PRMT8, PROM1, PRRX1, PRRX2, PRSS8, PSD3, PSEN1, PSIP1, PSMD2, PTBP1, PTCRA, PTEN, PTGS2, PTH, PTCH1, PTK2, PTK2B, PTK7, PTPN1, PTPN11, PTPN2, PTPN6, PTPRA, PTPRD, PTPRK, PTPRO, PTPRR, PTPRS, PTPRT, PTTG1,</i></p>

List of activities within the flexible scope of accreditation

Field Nr. / Ordinal Number	Detailed information on activities within the scope of accreditation
	<p><i>PVT1, PYCRI, QKI, RAB29, RAB35, RAB7A, RABEP1, RAC1, RAC2, RAC3, RAD21, RAD50, RAD51, RAD51B, RAD51C, RAD51D, RAD52, RAD54L, RAF1, RAG1, RAG2, RALGDS, RANBP1, RANBP17, RANBP2, RAPIGDS1, RARA, RASAI, RASALI, RASGEF1A, RASGRF1, RASGRF2, RASGRP1, RBI, RBM10, RBM15, RBM6, RCOR1, RCSD1, RECQL4, REEP3, REL, RELA, RELN, RERG, RET, RFWD2, RGS7, RHBDF2, RHEB, RHOA, RHOD, RHOH, RCHY1, RICTOR, RITI, RLTPR, RMI2, RNF213, RNF43, ROBO1, ROBO2, ROS1, RPA3, RPL22, RPNI, RPN2, RPS19, RPS21, RPS6KA1, RPS6KA2, RPS6KA3, RPS6KA4, RPS6KB1, RPS6KB2, RPTOR, RREB1, RRM1, RRM2B, RSPO2, RSPO3, RTEL1, RTN3, RUNX1, RUNX1T1, RUNX2, RYBP, RYR3, S1PR2, SARNP, SBDS, SCN8A, SDC4, SDHA, SDHAF2, SDHB, SDHC, SDHD, SEC31A, SEPT2, SEPT5, SEPT6, SEPT9, SERP2, SERPINA9, SERPINE1, SERPINF1, SET, SETBP1, SETD2, SETD7, SF3B1, SFPQ, SFRP2, SFRP4, SGK1, SGPP2, SH2B3, SH2D1A, SH2D5, SH3BP1, SH3BP5, SH3D19, SH3GL1, SH3GL2, SHC1, SHC2, SHQ1, SIK3, SIN3A, SIRT1, SKP2, SLC1A2, SLC29A1, SLC34A2, SLC45A3, SLC5A5, SLC7A5, SLCO1B3, SLIT2, SLX4, SMAD2, SMAD3, SMAD4, SMAD6, SMAP1, SMARCA1, SMARCA4, SMARCA5, SMARCB1, SMARCD1, SMC1A, SMC3, SMO, SNAPC3, SNCAIP, SNCG, SNHG5, SNW1, SNX29, SNX9, SOCS1, SOCS2, SOCS3, SOD2, SORBS2, SORT1, SOS1, SOX10, SOX11, SOX17, SOX2, SOX9, SP1, SP3, SPECC1, SPEN, SPOP, SPP1, SPRY2, SPRY4, SPTA1, SPTAN1, SPTBN1, SQSTM1, SRC, SRF, SRGAP3, SRRM3, SRSF2, SRSF3, SS18, SS18L1, SSBP2, SSX1, SSX2, SSX4, ST6GAL1, STAG1, STAG2, STAT1, STAT3, STAT4, STAT5A, STAT5B, STAT6, STIL, STK11, STK40, STL, STRBP, STRN, STX5, STYK1, SUFU, SUGP2, SULF1, SUV39H2, SUZ12, SYK, SYP, TACC1, TACC2, TACC3, TAF1, TAF15, TAL1, TAL2, TAOK1, TBL1XR1, TBX15, TBX3, TCEA1, TCEB1, TCF12, TCF3, TCF7L2, TCL1A, TCL6, TCTA, TEAD1, TEAD2, TEAD3, TEAD4, TEC, TENM1, TERC, TERF1, TERF2, TERT, TET1, TET2, TFAP2A, TFDPI, TFE3, TFEB, TFG, TFPT, TFRC, TGFB2, TGFB3, TGFBI, TGFBR1, TGFBR2, TGFBR3, THADA, THBS1, THRAP3, TIAM1, TIRAP, TLL2, TLR4, TLX1, TLX3, TMEM127, TMEM230, TMEM30A, Tmprss2, TNC, TNF, TNFAIP3, TNFRSF10B, TNFRSF10D, TNFRSF11A, TNFRSF13B, TNFRSF14, TNFRSF17, TNFRSF6B, TNFSF4, TOPI1, TOP2A, TOP2B, TP53, TP53BP1, TP63, TP73, TPD52L2, TPM3, TPM4, TPO, TPR, TRAF2, TRAF3, TRAF5, TRAF7, TRHDE, TRIM24, TRIM27, TRIM33, TRIP11, TRPS1, TSC1, TSC2, TSHR, TTF1, TTK, TTL, TTYHI, TUSC3, TYK2, TYMS, U2AF1, U2AF2, UBE2B, UBE2C, UFC1, UFM1, USP16, USP42, USP5, USP6, USP7, VCAM1, VCP, VEGFA, VEGFC, VGLL2, VGLL3, VHL, VTCN1, VTI1A, WASF2, WDFY3, WDR1, WDR18, WDR70, WDR90, WEE1, WHSC1, WHSC1L1, WIF1, WISP3, WNT10A, WNT10B, WNT11, WNT16, WNT2B, WNT3, WNT4, WNT5B, WNT6, WNT7B, WNT8B, WRN, WSB1, WT1, WWOX, WWTR1, XBPI, XIAP, XKR3, XPA, XPC, XPO1, XRCC2, XRCC6, YAPI, YES1, YPEL5, YTHDF2, YWHAE, YYIAP1, ZBTB16, ZBTB2, ZBTB7A, ZC3H7A, ZC3H7B, ZFH3, ZFP64, ZFPM2, ZFYVE19, ZIC2, ZMIZ1, ZMYM2, ZMYM3, ZMYND11, ZNF207, ZNF217, ZNF24, ZNF331, ZNF384, ZNF444, ZNF521, ZNF585B, ZNF687, ZNF703, ZRSR2</i></p>
823/3	<p>Examined genes: <i>BRAF, EGFR, KRAS, NRAS</i>; a vyšetřované lokusy MSI (<i>ACVF2A, BTBD7, DIDO1, MRE11, RYR3, SEC31A, SULF1</i>), vyšetřované promotory genů <i>FAM19A4+hsa-mir124-2 (metylace)</i>, vyšetřovaná alterace exprese genů <i>NOS2, CCL27, SDHAF2, TBP</i>.</p>
823/4	<p>Examined genes: <i>IDH1, IDH2, TERT</i></p>
823/5	<p>Examined loci: MSI (BAT-25, BAT-26, NR-21, NR-24 a MONO-27)</p>



## List of activities within the flexible scope of accreditation

- |                            |  |
|----------------------------|--|
| 4. Working Site Jilemnice  | Masarykova městská nemocnice a.s, Nemocnice Jilemnice,<br>Metyšova 465, 514 15 Jilemnice |
| 5. Working Site Jičín      | Oblastní nemocnice Jičín a.s., Bolzanova 512, 506 43 Jičín                               |
| 6. Working Site Strakonice | Nemocnice Strakonice, a.s., Radomyšlská 336, 386 01<br>Strakonice                        |

### Examinations:

Ordinal Number	Analyte/ parameter/diagnostics	Principle of examination	Identification of method procedure/ equipment	Examined material	Degrees of freedom <sup>1</sup>
<b>823 - Pathology Laboratory</b>					
1.	Peroperational histological and cytological examination and diagnostics	Microscopy	SOP-04, v. 8	Tissues, cells	A, B

### Explanatory notes:

<sup>1</sup> Established degrees of freedom according to MPA 00-09-...:

A – Flexibility concerning the documented examination/ sample collection procedure

B – Flexibility concerning the technique

C – Flexibility concerning the analytes / parameters

D – Flexibility concerning the examined material

If no degree of freedom is specified, the laboratory cannot apply a flexible approach to the scope of accreditation for this examination.

PCR	Polymerase <i>chain reaction</i>
NGS-MPS	Next <i>generation sequencing</i> (Massively parallel sequencing)
TMA	<i>Transcription Mediated Amplification</i>
FISH	Fluorescence <i>in situ</i> hybridization
MSI	Microsatellite instability
Real-Time PCR	Polymerase <i>chain reaction</i> in real time
aCGH	array comparative genomic hybridisation