Schedule of Accreditation

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Testing performed at the above address only

Site activities performed at location listed above:

Location details		Activity
Address	**Local contact**	
Neuropathology and Ocular Pathology Department Level 1, West Wing John Radcliffe Hospital Headley Way Headington Oxford OX3 9DU	Clara Limbaeck Tel: +44 (0)1865 231466 Email: clara.limbaeck@ouh.nhs.uk	Histopathology Special stains Immunohistochemistry Diagnostic cytology (non-gynae)

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE AND FLUIDS	<u>Neuropathological examination activities for the purposes of clinical diagnosis</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
Tissue samples: CNS (tumour/non-tumour) Ophthalmic biopsies Post mortem samples/organs (brain/cord/non-CNS) Muscle Biopsies Nerve biopsies	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	Specimen Dissection: Specimen dissection: LSPEC 745 Post mortem dissection: LSPEC 608 Decalcification: LSPEC 31 Muscle sampling: LSPEBX 776 Fluid cytology: LSPEBX 848 Fluid cytology: Thermo Shandon Cytospin: MEQU 109 Tissue Processing: Epredia Excelsior AS tissue processors (x3): MEQU 888 Tissue Embedding: Epredia Histostar embedder – LSPEC 598
Fresh brain tissue	Intraoperative examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	Intra-operative smears: manual preparation and manual/automated staining: Manual Haematoxylin and eosin (LSPEC 131) Manual Methylene blue (LSPEC 131)
Fresh tissue	Intraoperative examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	Cryotomy: Thermo HM 525 NX Epredia Cryostar NX50 Automated Haematoxylin and eosin – Leica ST5010 H&E Autostainer & Leica Robotic Cover slipper CV5030 – MEQU 89 Frozen sections (exluding muscles): LSPEC 857

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Neuropathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
Formalin Fixed Paraffin Wax blocks of processed tissue		Microtomy: Leica Rotary microtomes 1) Leica Histocore Biocut 2) Leica RM 2235 3) Leica RM 2235 Tissue Sectioning: LSPEC 389
Formalin fixed paraffin embedded (FFPE) sections on glass slides	Routine morphological staining for the detection of basophilic and eosinophilic structures	Manual H&E staining using procedure: LSS 68 H&E staining using – Leica ST5010 H&E Autostainer & Leica Robotic Cover slipper CV5030 –and procedure: MEQU 89.
FFPE slides (Formalin fixed paraffin embedded)	<u>Special stains for the detection of:</u>	Manual staining for the following methods:
	Tissue architecture and nuclear detail	Methylene blue: LSPEC 131
	Mucins	Alcian blue: LSS 246 Alcian blue/Periodic Acid Schiff (PAS): LSS 247
	Amyloid	Congo Red: LSS 250
	Nissl substance	Cresyl violet: LSS 251
	Elastic fibres	Millers Elastic van Gieson: LSS 255
	Gram positive and negative organisms	Gram-Twort: LSS 257
	Fungi	Grocott Hexamine Silver: LSS 259
	Myelin sheaths (CNS)	Luxol fast blue/cresyl violet: LSS 261

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Neuropathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
Formalin fixed paraffin embedded (FFPE) sections on glass slides (cont'd)	<u>Special staining for the identification of: (cont'd)</u>	Manual staining for the following methods: (cont'd)
	Muscle/connective tissue and stromal deposits in certain corneal dystrophies	Goldner's Masson Trichrome: LSS 255
	Glycogen / fungi / other periodate reactive carbohydrates	Periodic acid Schiff: LSS 270
	Glycogen demonstration	Diastase PAS: LSS 273
	Anterior pituitary acidophil/basophil cells	PAS/orange G: LSS 271
	Ferric salts demonstration	Perl's Prussian blue: LSS 274
	Reticulin fibres	Gordon & Sweet's Reticulin: LSS 256
	Muscle/connective tissue	Sirius red/picric acid: LSS 276
	Myelin (PNS)	Page's solochrome cyanine: LSS 268
	Calcium salts	von Kossa: LSS 278
	Acid fast bacilli	Ziehl-Neelsen: LSS 279

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE AND FLUIDS (cont'd)	Neuropathological examination activities for the purposes of clinical diagnosis (cont'd)	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
Fresh frozen muscle tissue sections on glass slides	Special staining for the identification of:	Manual staining using listed procedures:
	Lysosomal acid phosphatase	Acid phosphatase: LSPEBX 796
	Cytochome oxidase	Cytochrome oxidase: LSPEBX 832
	Cytochrome oxidase and succinate dehydrogenase	Cytochrome oxidase /Succinate dehydrogenase: LSPEBX 832
	Muscle architecture	Gomori's Trichrome: LSPEBX 790
	NADH-tetrazolium reductase	NADH: LSPEBX 830
	Neutral lipid in muscle cells	Oil Red O: LSPEBX 819
	Glycogen and muscle basement membranes	PAS LSPEBX 825
	Glycogen and muscle basement membranes	PAS/Diastase: LSPEBX 825
	Phosphorylase	Phosphorylase: LSPEBX 835
	Succinate dehydrogenase	SDH: LSPEBX 831
Formalin fixed paraffin embedded (FFPE) sections on glass slides	Immunohistochemistry for the identification of:	Manual staining using Dako Envision Detection Kit or Novolink detection kit (LIMM 2) using antibodies to:
	Adrenocorticotrophic hormone	ACTH
	Alpha-synuclein positive inclusion bodies	Alpha syuclein
	Phospho tau detection (neurodegeneration)	AT8
	Presence/absence nuclear expression (glioma	ATRX
	Expression of BAF-47	BAF47 (INI1)
	BCAT-1 expressing tumour cells	BCAT-1

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Neuropathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
Formalin fixed paraffin embedded (FFPE) sections on glass slides (cont'd)	<u>Immunohistochemistry for the identification of: (cont'd)</u>	Manual staining using Dako Envision Detection Kit or Novolink detection kit (LIMM 2) using antibodies to:
	Amyloid plaques	Beta A4
	Amyloid precursor protein	Beta APP
	CK7/8 identification (epithelial cells, metastases, pituitaries)	CAM 5.2
	Antigen on T lymphocytes	CD3
	Endothelial cells	CD31
	To aid classification of B cell lymphomas	CD79a
	Protein in ephithelial cells	EMA
	Muscle cells	D33 (desmin)
	Follicle stimulating hormone	FSH
	Medulloblastoma subtyping	GAB-1
	Glial Fibrillary Acific Protein	GFAP
	Growth hormone	GH
	Histone H3 K27M mutant	H3K27M
	Histone wildtype	H3K27me3
	Melanomas	HMB45
	Gliomas	IDH-1
	For identifying B cells	L26 (CD20)
	Leukocyte common antigen	LCA
	Leutinizing hormone	LH
	Microtubule associated protein	MAP-2
	Melanoma-specific antigen	MELAN-A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Neuropathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
Formalin fixed paraffin embedded (FFPE) sections on glass slides (cont'd)	<u>Immunohistochemistry for the identification of: (cont'd)</u>	Manual staining using Dako Envision Detection Kit or Novolink detection kit (LIMM 2) using antibodies to:
	Pan-cytokeratin marker	MNF-116
	Marker for cells in cycle (surrogate for proliferation	MIB-1
	Neurofilament	NF-L
	Oligodendrocyte transcription factor 2 recombinant protein	Olig-2
	Pituitary-specific positive transcription factor 1	PIT-1
	Myelin ProteoLipid Protein	PLP
	P53 expression	PG53
	Macrophages and mononuclear cells	PGM-1 / CD68
	Generic screen for protein aggregates	P62
	Prolactin hormone	PRL
	TAR DNA binding protein	pTDP-43
	Endothelial marker	QBend 10
	Cells expressing S100 (including glial)	S100
	Pituitary transcription factor marker	SF-1
	Smooth muscle actin	SMA
	Cells producing synaptophysin	SYN
	Mesenchymal intermediate filament	Vimentin
	Thyroid stimulating hormone	TSH
	Pituitary transcription factor marker	T-PIT
	Neuronal cell marker	NeuN
	Medulloblastoma subtyping	YAP-1

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE AND FLUIDS (cont'd)	Neuropathological examination activities for the purposes of clinical diagnosis (cont'd)	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
Formalin fixed paraffin embedded (FFPE) sections on glass slides (cont'd)	Immunohistochemistry for the identification of: (cont'd)	Manual staining using Dako Envision Detection Kit or Novolink detection kit (LIMM 2) using antibodies to:
	Muscle immunohistochemistry for the identification of:	
Fresh frozen muscle tissue sections on glass slides	Detection of type 1 (slow fibres) and type 2 (fast fibres) to include:	Manual immunohistochemical technique using Dako Envision Detection Kit or Leica Novolink kit (LSPEBX 837) using antibodies to:
	Sub-typing fibres using immuno markers MHC-Fast, MHC-Slow, MHC-neonatal and MHC-developmental and procedure	Myosin fast (MHC-F) Myosin slow (MHC-S) Myosin developmental (MHC-D) Myosin neonatal (MHC-N) NCAM
	Inflammatory myopathies for the detection of inflammatory cells.	C5b9 P62 (+/-) PGM-1 LCA Alpha-sarcoglycan CD20 CD45 MHCI MHCII
	Membrane panel for the detection of muscular dystrophies to include Xp21 muscular dystrophy (dystrophinopathy) and merosin deficient congenital muscular dystrophy)	Dystrophin-1 Dystrophin-2 Dystrophin-3 Alpha dystroglycan Beta-dystroglycan Beta-sarcoglycan Gamma-sarcoglycan Utrophin Merosin (laminin alpha2) Caveolin 3 Laminin B1 Laminin B2 Myotilin NOS-1 Spectrin Dysferlin Emerin

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE AND FLUIDS (cont'd)	Neuropathological examination activities for the purposes of clinical diagnosis Muscle immunohistochemistry for the identification of: (cont'd)	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified
Fresh CSF & tumour/CNS fluid samples	Detection of neoplastic cells	CSF preparation and manual MGG staining: LSPEBX 848
Fixed nerve tissue	Teased nerve fibres to assess their axons and myelin	Manual method Tease preparation: LSPEBX 98 Microscope - Dissection microscope (Motic SMZ-171 binocular)
Slides prepared as above	Morphological assessment and interpretation/diagnosis	Interpretive microscopy: Microscopes: Diagnostic brightfield microscopes LREP 75 Key reporting procedures: Surgical biopsies LREP 75 Muscle biopsies: LREP 77 CSF & CNS fluid LREP 82 Notification of local cancer registry: LREP 86
END		