**Molecular Pathology Request Form**

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| Please send requests to | **Molecular Neuropathology Laboratory**  Division of Neuropathology | UCL Queen Square Institute of Neurology | Queen Square | London WC1N 3BG | email: [UCLH.molecular.neuropathology@nhs.net](mailto:UCLH.molecular.neuropathology@nhs.net) | | | | |
| Web address for further information and form download | <https://www.ucl.ac.uk/ion/divisions/neuropathology/diagnostic_services/molecular_tests>**.**  **Always print this form and send with the sample. Do not alter this form.** | | | | |
| **For Laboratory use only NH number:** | | | Time stamp | | |
| **Test requested** | **Recommended for** | | **Test method** | | |
| 1p, 19q, 7p (EGFR), CDKN2A/B; IDH1, IDH2, H3F3A (Histone H3.3 K27M and G34R), TERT, BRAF V600E |  | **Low and high grade glial tumours:** IDH mutant Astro and oligo, test infiltration zone of GBM, other glio-neuronal tumours | **Copy number assay**  **Sequencing** | | |
| IDH1, IDH2, TERT, H3F3A (Histone H3.3 K27M and G34R), BRAF V600E.  Note we discontinued sequencing of histones H1H3B, H1H3C, H2H3C |  | **Low and high grade astrocytic tumours**:  To identify IDH-wildtype GBM in under-sampled biopsies; differentiate IDH-mutant gliomas from other glial tumours | **Sequencing** | | |
| Histone K27M immunostain |  | Midline glioma | **IHC** | | |
| EGFR amplification only |  | EGFR amplification, e.g. for clinical trials | **Real time PCR** | | |
| EGFR amplification + EGFRvIII |  | EGFR ampl and EGFR vIII mutation e.g. for clinical trials | **Real time PCR** | | |
| KIAA1549-BRAF fusion mutations, BRAF V600E |  | Pilocytic/pilomyxoid astrocytomas  Diffuse leptomeningeal glioneuronal tumour | **RT-qPCR:** KIAA1549-BRAF **Sequencing:** BRAF | | |
| BRAF V600E only |  | Ganglioglioma, Gangliocytoma, PXA, Epithelioid GBM; Melanoma | **Sequencing** | | |
| MGMT promoter methylation |  | Any tumour (in practice mainly GBM) undergoing treatment with Temozolamide | **HRM PCR** | | |
| Illumina 850k methylation array, algorithmic classification. |  | To classify brain tumours using the Heidelberg (DKFZ) brain tumour methylation classifier  <https://www.molecularneuropathology.org/mnp> | **Methylation array**  **Requires FFPE block and pathology report** | | |
| Test tbc |  | Leave decision to molecular pathology team (for complex, unclear and other referrals) | **Requires FFPE block and pathology report** | | |
| **Patient details** | | | | | |
| First name | |  | Gender | M | F |
| Surname | |  | | | |
| Date of birth | |  | | | |
| Patient Address | |  | | | |
| NHS Number | |  | | | |
| Tumour location | |  | | | |
| Referred diagnosis | |  | | | |
| Referred material | | **Block**  **4 slides (4µm) and 8-10 slides (10µm)** | | | |  |  |  |  |
| Referral Pathology ID and block number | |  | | | |  | **4 slides (4µm) and 8-10 slides (10µm)** |  |  |
| **Details of the referring hospital and clinician** | | | | | |
| Hospital | |  | | | |
| Address | |  | | | |
| Postcode | |  | | | |
| Consultant name | |  | | | |
| **Consultant email (Report will be sent to this email)** | |  | | | |
| **Address to return material** | |  | | | |

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