

British Society for Haematology

Clinical Science Sub-Committee



Directory of Services for Haematological Oncology

Centre	Description of Services	Contact Details
Bath	<p>Ex vivo Drug Sensitivity Testing for CLL, NHL, and AML. TRAC assay (Tumour Response to Antineoplastic Compounds). (Previously the DiSC assay).</p> <p>25 drugs can be tested. See details at http://caltri.org</p>	<p>Dr. A. G. Bosanquet, Director, Bath Cancer Research, Wolfson Centre, Royal United Hospital, Combe Park, Bath BA1 3NG Tel. 01225 824 124. Fax 01225 824 114. e-mail : bcr@caltri.org</p>
Belfast	<p>Stem Cell Processing Processing and/or cryopreservation: autologous and allogeneic BM, autologous and allogeneic PBSC, DLI.</p>	<p>Dr. F.G.C. Jones, Department of Haematology, C Floor, Tower Block, Belfast City Hospital, Lisburn Road, Belfast BT9 7AB Tel. 02890 329241, Ext.2130 Fax 02890 263870 e-mail : frank.jones@bll.n-i.nhs.uk</p>
	<p>Stem Cell Processing UCB</p>	<p>Dr. W.M. McClelland, Northern Ireland Blood Transfusion Service Belfast City Hospital, Lisburn Road, Belfast BT9 7AB</p>

		Tel. 02890 329241, Ext.4645. Fax 02890 439017 e-mail : pking@nibts.n-i.nhs.uk
	<i>in vitro</i> Analyses Committed progenitor assay. (Global Proficiency Testing Scheme; StemCell Technologies).	Dr. A.E. Irvine, Department of Haematology, U Floor, Tower Block, Belfast City Hospital, Lisburn Road, Belfast BT9 7AB Tel. 02890 263718. Fax 028 90 263927 e-mail : s.irvine@qub.ac.uk
	Immunophenotypic Analyses Measurement of CD34 ⁺ cells (ISCT Guidelines). Acute leukaemia panel. Chronic leukaemia panel. PNH diagnosis. NHL panel.	Professor H.D. Alexander, Department of Haematology, C Floor, Tower Block, Belfast City Hospital, Lisburn Road, Belfast BT9 7AB Tel: 02890 329241, Ext.3033 Fax: 02890 263870 e-mail : hd.Alexander@bll.n-i.nhs.uk
	Molecular Diagnostics/PCR Analyses Detection of :- t(14;18), t(11;14), t(2;5), t(11;18), t(2;17), IgH rearrangement. TCR rearrangement.	Dr. Mark Catherwood, Department of Haematology, C Floor, Tower Block, Belfast City Hospital, Lisburn Road, Belfast BT9 7AB Tel. 02890 329241, Ext.3097. Fax. 02890 263870 e-mail : mark.catherwood@bll.n-i.nhs.uk
	Molecular Diagnostics/PCR Analyses Detection of t(9;22) in CML and ALL. Quantitative PCR for BCRABL (ABI Prism).	Dr. A.E. Irvine. (see above)
	FISH Analyses (Haematology). Detection of :- t(4;14), t(8;14), t(11,14),	Professor H.D. Alexander. (see above)

	del 17p, del 11q23, del 6q, del 13q, trisomy 12.	
	FISH Analyses (Genetics). Detection of :- t(9;22), 9q deletions, 11q23 abnormalities, t(12;21), hyperdiploidy (childhood ALL), 9p21 deletions, 17q21 rearrangements, t(15;17), inv(16) and 16q22 rearrangements, t(8;21), trisomy 8, monosomy 5/del 15q, monosomy 7/del 17q, XX/XY status, 14q32 rearrangements, monosomy 13/del 13q14	Mr. Mervyn Humphries, Department of Medical Genetics, A Floor, Tower Block, Belfast City Hospital, Lisburn Road, Belfast BT9 7AB Tel. 02890 329241 Ext.3351. Fax. 02890 236911 e-mail : mervyn.humphries@bll.n-i.nhs.uk
	Accreditation status CPA. King's Fund.	
Cambridge	Stem Cell Processing Processing and/or cryopreservation: autologous and allogeneic BM, autologous and allogeneic PBSC, DLI. Selection of CD34 ⁺ cells (CliniMACS). <i>in vitro</i> Analyses	Dr Mike Scott, Laboratory Director Department of Haematology, Addenbrooke's NHS Trust, Hills Road, Cambridge CB2 2QQ Tel. 01223 548027. Fax 01223 548026.

	Committed progenitor assay. CFU-GM, BFU-E.	e-mail : mas59@cam.ac.uk
	<p>Immunophenotypic Analysis The following analyses are available by multi-parametric flow cytometry, immunocytochemistry (APAAP) and immunofluorescence</p> <p>Acute leukaemia, including cytoplasmic antigens and PML protein analysis where appropriate. B-lymphoproliferative including Zap-70 Hairy cell leukaemia Multiple myeloma Waldenstroms macroglobulinaemia T / NK -lymphoproliferative DNA ploidy - propidium iodide Non-haematological marrow infiltration Stem cell enumeration Paroxysmal nocturnal haemoglobinuria screen Hereditary spherocytosis screen</p>	<p>Dr Mike Scott, Consultant Clinical Scientist Department of Haematology, Addenbrooke's NHS Trust, Hills Road, Cambridge CB2 2QQ Tel. 01223 548027. Fax 01223 548026. e-mail : mas59@cam.ac.uk</p>
	<p>Cytogenetics G-banded chromosome analysis.</p> <p>FISH Analyses For the detection of :- ALL [t(9;22), t(12;21), 11q23 (MLL)]. AML [t(8;21), t(15;17), inv(16) (CBFβ), 11q23 (MLL), trisomy 8]. CML [t(9;22)]. Myelodysplasia [5/5q, 7/7q, trisomy 8, 20q]. NHL [8q24 (c-myc), 14q32 (IgH), t(11;14), t(14;18), 2p23 (ALK), 3q27(bcl6)] Other FISH tests: 17p13 (p53), 11q22 (ATM) Chimerism for Sex-mismatched bone marrow transplants [X/Y]</p>	<p>Dr Mike Scott, Consultant Clinical Scientist Department of Haematology, Addenbrooke's NHS Trust, Hills Road, Cambridge CB2 2QQ Tel. 01223 548027. Fax 01223 548026. e-mail : mas59@cam.ac.uk</p>
	<p>Molecular Genetics PCR and RT-PCR for the detection of :-</p>	<p>Dr Mike Scott, Consultant Clinical Scientist</p>

	<p>B-cell clonality [IGH FR1, FR2, FR3, incomplete D-J], T-cell clonality [TCRD, TCRG], AML [AML1-ETO, PML-RARA, CBFβ-MYH11, FLT3 ITD mutations, MLL fusion partner investigations] ALL [E2A-PBX1, TEL-AML1 MLL fusion partner investigations, BCR-ABL]. Infant leukaemia [MLL fusion partner investigations]. CML [BCR-ABL]. Other myeloproliferative disorders [exclude BCR-ABL]. Systemic mastocytosis [c-kit Asp816Val mutation]. NHL [BCL1-IGH, BCL2-IGH]. Minimal residual disease assessment.</p>	<p>Department of Haematology, Addenbrooke's NHS Trust, Hills Road, Cambridge CB2 2QQ Tel. 01223 548027. Fax 01223 548026. e-mail : mas59@cam.ac.uk</p>
	<p>Accreditation status CPA. : Accredited. MHRA : Accredited. JACIE – applied for</p>	
<p>Cardiff.</p>	<p>Stem Cell Processing Processing and cryopreservation: Autologous & allogeneic Bone Marrow, Autologous & allogeneic PBSC, Donor lymphocyte infusion, Dedicated Cord Blood harvests (under consideration).</p> <p>In vitro analysis Erythroid and myeloid progenitor assays.</p>	<p>Dr. Roy Bailey-Wood Stem Cell Processing Unit Dept of Haematology University Hospital of Wales, Cardiff CF14 4XW Tel:02920 742287 Fax:02929 745084 Email : Roy.Bailey-Wood@Cardiffandvale.wales.nhs.uk</p> <p>Dr. Paul Baines Cell Biology Laboratory Dept of Haematology University Hospital of Wales, Cardiff CF14 4XW Tel:02920 743486 Email : bainesp@CF.AC.UK</p>
	<p>Cytogenetics (Broad headings)</p>	<p>Sandra Birdsall,</p>

	<p>Chromosome and FISH analysis for AML, ALL, CML, MDS, MPD, CLL, myeloma and some solid tumours.</p> <p>Paraffin section and FISH for lymphoma, Ca breast.</p> <p>FISH chimaerism analysis post allogeneic BMT.</p>	<p>Principal Clinical Cytogeneticist, Haematology Cytogenetics Laboratory University Hospital of Wales, Cardiff CF14 4XW Tel: 02920 742372 Fax: 02920 745084 Email: sandra.birdsall@Cardiffandvale.wales.nhs.uk</p>
	<p>Molecular diagnostics t(15;17), t(8,21), Inversion 16 (types A,D & E), t(9;22), p190 & p210, FLT3 ITD, IgH, TCR Microsatellites (testing for chimaerism). Presentation screening of AML & ALL patients and MRD follow up on those with translocations. f(14;18)</p>	<p>Steve Austin Molecular Diagnostics Laboratory Dept. of Haematology University Hospital of Wales, Cardiff CF14 4XW Tel: 02920 744526 Fax: 02920 7454655 Email : AustinSJ@CF.AC.UK</p>
	<p>Immunophenotypic analyses Acute leukaemia, including detection of Minimal Residual Disease. PML protein staining. Lymphoma detection in lymph nodes, blood, bone marrow and pleural fluid samples. Lymphoma staging of bone marrow. Lymphoproliferative disorders of B-cells, T-cells, and NK cells, including CLL, myeloma, hairy cell leukaemia. Stem cell enumeration, viability assessment post cryopreservation. Lymphocyte subset enumeration. Paroxysmal Nocturnal Haemoglobinuria. Foeto-maternal haemorrhage and quantification of F-cells. Hereditary spherocytosis screen. Detection of non-haematological tumour. Cell proliferation (Ki-67) and cell cycle (DraQ5).</p>	<p>Stephen Couzens Immunophenotyping Laboratory Dept of Haematology University Hospital of Wales, Cardiff CF14 4XW Tel: 02920 742370 (Bus) Tel: 02920743458 (Home) Fax: 02920 745084 Email: CouzensSJ@CF.AC.UK</p>

	Immuno-platelet counting.	
Glasgow.	<p>Stem Cell Processing Processing and/or cryopreservation: autologous and allogeneic BM, autologous and allogeneic PBSC, DLI, UCB. Volume reduction, MNC isolation (COBE 2991). Selection of CD34⁺ cells : CliniMACS. Purification of myeloid and lymphoid cells post Tx. for chimaerism analyses.</p> <p><i>in vitro</i> Analyses Committed progenitor assay. (Global Proficiency Testing Scheme; StemCell Technologies). Measurement of long term culture-initiating cell (LTC-IC).</p>	<p>Dr. Michael J. Alcorn, Haematology Department, Macewen Building, Glasgow Royal Infirmary, Castle Street, Glasgow G4 0SF Tel. 0141 211 4674. Fax 0141 211 4931. e-mail : michael.alcorn@northglasgow.scot.nhs.uk</p>
	<p>Immunophenotypic Analyses Measurement of CD34⁺ cells (ISCT Guidelines). Measurement of CD3⁺ cells. Viability analysis post cryopreservation. Acute leukaemia panel. Chronic leukaemia panel. PNH diagnosis.</p>	<p>Mr. Charlie Pearson,, Haematology Department, Macewen Building, Glasgow Royal Infirmary, Castle Street, Glasgow G4 0SF Tel. 0141 211 5199. Fax 0141 211 4931. e-mail : charlie.pearson@northglasgow.scot.nhs.uk</p>
	<p>Molecular Diagnostics PCR analyses Detection of t(9;22) in CML and ALL. Detection of t(8;21) in AML-M2. Detection of t(15;17) in AML-M3. Detection of (inv. 16) in AML-M4eo. Detection of FLT 3 mutations in AML. Detection of t(14;18) in follicular lymphoma. Quantitative PCR for BCRABL (ABI 7900).</p>	<p>Dr. Jan W. Baird, Haematology Department, Macewen Building, Glasgow Royal Infirmary, Castle Street, Glasgow G4 0SF Tel. 0141 211 5548. Fax 0141 211 4931. e-mail : jan.baird@northglasgow.scot.nhs.uk</p>

	Chimaerism analysis of post-transplant patients using microsatellite PCR and fragment analysis (Beckman CEQ 8000).	
	<p>FISH analyses. Detection of t(11,14) in mantle cell lymphoma. Detection of t(8,14) in Burkitt's lymphoma. Detection of c-myc in Burkitt's lymphoma. Detection of t(14,18) in follicular lymphoma. Detection of t(11,18). Detection of IgH rearrangement. Detection of TCR rearrangement. Detection of MALT. Detection of BCL6. Detection of IgH b/ap.</p> <p>Identification of prognostic indicators for CLL.</p> <p>CISH analyses (Chromogenic-ISH) Assessment of chimaeric status. Detection of κ/λ chain. Detection of EBV – latent and lytic. Detection of Albumin. Detection of Renin. Detection of HHV8. Detection of HPV-pan, 6/11, 16/18, 31/32.</p> <p>Her2 FISH (Regional Centre)</p>	<p>Dr. Fiona M. Reid, Molecular Pathology Department, Lister Building, Glasgow Royal Infirmary, Castle Street, Glasgow G4 0SF Tel. 0141 211 6800. Fax e-mail : fiona.reid@northglasgow.scot.nhs.uk</p>
	<p>Accreditation status CPA. Registered with HTA (Inspection to be confirmed).</p>	
Leeds.	<p>Molecular Diagnostics PCR analyses Detection of :- t(9;22) in CML and ALL (p210, p190 & p230), t(8;21), t(15;17) & (inv. 16) in AML,</p>	<p>Dr. Paul Evans, HMDS, Algernon Firth Building, Institute of Pathology, Leeds General Infirmary,</p>

	<p>FLT 3 mutations in AML (RT-PCR followed by genescan analysis), t(9;22), t(4;11) & t(1;19) in ALL.</p> <p>RQ-PCR for :- BCR/ABL (ABI 7700, 7000 & 5700), various chimeric fusion genes in ALL and AML, antigen receptor genes.</p> <p>Detection of IgH (FR1,2&3 and incomplete DH), IGK rearrangements.</p> <p>Biomed multiplex approach for :- Detection of TCR γ, β, δ rearrangements, Detection of t(14;18).</p> <p>Lineage restricted (Dynal fractionated) fragment analysis for chimaeric status (ABI 377 & 3100 avant sequencers).</p>	<p>Great George Street, Leeds LS1 3EX Tel. 0113 3926285. Fax 0113 3926286. e-mail : paul.evans@leedsth.nhs.uk</p>
	<p>FISH Analyses</p>	<p>Dr. Sheila O'Connor / Dr. Sharon Barrans HMDS, Algernon Firth Building, Institute of Pathology, Leeds General Infirmary, Great George Street, Leeds LS1 3EX Tel. 0113 3926285. Fax 0113 3926286.</p>
	<p>Immunophenotypic Analyses</p>	<p>Dr. Steve Richards / Dr. Andy Rawstron, HMDS, Algernon Firth Building, Institute of Pathology, Leeds General Infirmary, Great George Street, Leeds LS1 3EX Tel. 0113 3926285. Fax 0113 3926286.</p>

	Immunohistochemistry	Dr. Andrew Jack, HMDS, Algernon Firth Building, Institute of Pathology, Leeds General Infirmary, Great George Street, Leeds LS1 3EX Tel. 0113 3926285. Fax 0113 3926286.
Liverpool.	Stem Cell Processing Processing and/or cryopreservation. Autologous and Allogeneic BM, Autologous and Allogeneic PBSC, DLI, UCB, Selection of CD34+ cells: Isolex 300i. Measurement of CD34+ cells Measurement of CD3+ cells <i>In vitro</i> analysis. Committed progenitor assay.	Noreen McGinnity, Haematology Department, 2 nd Floor Duncan Building, Royal Liverpool University Hospital, Prescot Street, Liverpool L7 8XP. Tel. 0151 706 4348. Fax 0151 7065810. e-mail : noreen.mcginnity@rlbuht.nhs.uk
	Immunophenotypic and Cytochemical Analysis Immunophenotyping (PB, BM, CSF, AF, PF). Myeloma plasma cell phenotyping and estimation. Bone Marrow Aspirates. PNH Screen. APAAPS. Cytospins. Cytochemistry. P53 and P21 function tests. Urinary Haemosiderin. Digital Imaging.	Craig Evans, Haematology Department, 2 nd Floor Duncan Building, Royal Liverpool University Hospital, Prescot Street, Liverpool L7 8XP. Tel. 0151 706 4334. Fax 0151 7065810. e-mail : craig.evans@rlbuht.nhs.uk

	<p>Molecular Diagnostics BCR-ABL fusion gene detection and quantification. BCR-ABL gene mutation. t (15; 17) fusion gene detection. t (8; 21) fusion gene detection. inv (16) fusion gene detection. FLT-3 ITD and mutation detection. Chimaerism. Immunoglobulin and T-cell receptor gene rearrangements. Immunoglobulin V gene sequencing.</p>	<p>Dr. Lihui Wang, Haematology Department, 2nd Floor Duncan Building, Royal Liverpool University Hospital, Prescot Street, Liverpool L7 8XP. Tel. 0151 706 4326. Fax 0151 7065810. e-mail : lhwang@liverpool.ac.uk</p>
London; Guy's and St. Thomas'.	<p>Stem Cell Processing Processing and/or cryopreservation: autologous and allogeneic BM, autologous and allogeneic PBSC, DLI. Selection of CD34⁺ cells (Isolex 300i).</p> <p><i>in vitro</i> Analyses Committed progenitor assay.</p>	<p>Tamara Elston Clinical Haemopoiesis Manager Stem Cell Laboratory, 4th Floor, Guy's Tower Guy's Hospital , London Bridge SE1 9RT Tel. 0207 188 1425 Fax 0207 188 2730 e-mail : tammy.elston@gstt.sthames.nhs.uk</p>
	<p>Immunophenotypic Analyses Measurement of CD34⁺ cells. Acute leukaemia panel. Chronic leukaemia panel. PNH diagnosis. Immune markers. NK cells.</p>	<p>Tamara Elston (CD34 and immune markers) Yvonne Daniel Biomedical Scientist 4th Floor, North Wing, St. Thomas' Hospital Lambeth Palace Road, Waterloo SE1 7EW Tel. 0207 188 2709 Fax 0207 1882709</p>
	<p>Molecular Diagnostics/PCR analyses Detection of immuno- and lymphoproliferative disorders.</p>	<p>Gulruch Ahsan Senior Research Scientist 4th Floor, Guy's Tower Guy's Hospital, London Bridge SE1 9RT</p>
	<p>Accreditation status Stem Cell Processing Suite : MHRA accreditation pending. Haematology Laboratory : CPA accredited.</p>	

<p>London, Royal Free/ UCH.</p>	<p>Stem Cell Processing MHRA accredited facility for “Haematopoietic progenitor cells and other tissue types”. Processing and cryopreservation : Autologous and allogeneic BM, Autologous and allogeneic PBSC Volume reduction, MNC Isolation (COBE 2991). Selection of CD34⁺ cells : Isolex 300i, CliniMACS. <i>Ex vivo</i> T-cell expansion. Preparation of non-alloreactive T-cells for DLI. Isolation / generation of CMV-reactive T-cells.</p>	<p>Dr. Mark Lowdell, Department of Haematology, Royal Free Hospital, Pond Street, London NW3 2QG Tel. 020 7830 2183. Fax 020 7794 0645. e-mail : m.lowdell@rfc.ucl.ac.uk</p> <p>Dr. Mike Watts, Haematology Department, University College London, 98, Chenies Mews, London WC1E 6HX Tel. & Fax : 020 7679 6220. e-mail : michael.watts@ucl.ac.uk</p>
	<p>Immunophenotypic Analyses Enumeration of CD34⁺ cells. Enumeration of T-, B-, and NK-cells (and subsets).</p>	
<p>Manchester.</p>	<p>Stem Cell Processing Processing and/or cryopreservation of : autologous and allogeneic BM, autologous and allogeneic PBSC, DLI. Plasma volume reduction and red cell depletion.</p> <p><i>In vitro</i> analysis Committed progenitor cell assay pre and post cryopreservation.</p>	<p>Bob Burgess, Department of Clinical Haematology, Cobbett House, Manchester Royal Infirmary, Oxford Road, Manchester M13 9WL Tel. 0161 276 4078. Fax 0161 276 8089. e-mail : robert.burgess@cmmc.nhs.uk</p>
	<p>Immunophenotypic Analyses (info to come)</p>	<p>Linda Green, Department of Immunology, St. Mary’s Hospital, Hathersage Road, Manchester M13 0JH</p>

		Tel. 0161 276 6497. Fax 0161 276 6439. e-mail : linda.green@cmmc.nhs.uk
	Molecular Oncology Diagnostics Qualitative RT-PCR detection of :- BCR-ABL for CML and ALL, BCR-ABL tests, t(15;17) in APL (PML-RARA), t(8;21) in AML (AML1-ETO), t(16;16) and inv(16) in AML (CBFB-MYH11), Quantitative (real-time) PCR for :- BCR-ABL, PML-RARA, AML1-ETO, CBFB-MYH11, DEK-CAN, Mutation screening for JAK2.	Dr. Abida Awan, Molecular Diagnostics Centre, Top Floor Multipurpose Building, Manchester Royal Infirmary, Oxford Road, Manchester M13 9WL Tel. 0161 276 8039/4809. Fax 0161 276 8089. e-mail : abida.awan@cmmc.nhs.uk
Newcastle.	Stem Cell Processing Processing and/or cryopreservation : autologous and allogeneic BM, autologous and allogeneic PBSC, DLI, UCB. Selection of CD34 ⁺ cells : CliniMACS. <i>in vitro</i> Analyses Committed progenitor assay.	Mr. Ken Brigham, Stem Cell Laboratory, Haematology Department, Royal Victoria Infirmary, Queen Victoria Road, Newcastle-upon-Tyne, NE1 4LP Tel. 0191 282 0684. Fax 0191 222 5524. e-mail : k.m.brigham@ncl.ac.uk
	Immunophenotypic Analyses Measurement of CD34 ⁺ cells (ISCT Guidelines). Acute leukaemia panel. Chronic leukaemia panel. PNH diagnosis	Mrs. Bronia Baker, Haematology Department, Royal Victoria Infirmary, Queen Victoria Road, Newcastle-upon-Tyne, NE1 4LP Tel. 0191 282 4766.

		Fax 0191 282 4763. e-mail : bronia.baker@nuth.northy.nhs.uk
	<p>Cytogenetics & Molecular Cytogenetic Diagnostics</p> <p>Detection of clinically significant cytogenetic abnormalities in haematological malignancies using :- G-banded chromosome analysis, Metaphase and interphase FISH, RT-PCR analysis.</p> <p>Interphase FISH monitoring of BCR/ABL in CML.</p> <p>Monitoring of sex-mismatched allogeneic BMT by X/Y interphase FISH.</p> <p>Cytogenetic, FISH, and RT-PCR detection of translocations in paediatric soft tissue sarcomas infiltrating BM.</p>	<p>Dr. Nick Bown, Regional Genetics Service, Institute for Human Genetics, Central Parkway, Newcastle-upon-Tyne, NE1 3BZ Tel. 0191 241 8703. Fax 0191 241 8799. e-mail : nick.bown@ncl.ac.uk</p>
	<p>PCR Analyses</p> <p>Fluorescent PCR using microsatellite markers for assessment of chimaeric status.</p>	<p>Dr. Ann Curtis, Regional Genetics Service, Institute for Human Genetics, Central Parkway, Newcastle-upon-Tyne, NE1 3BZ Tel. 0191 241 8754. Fax 0191 241 8799. e-mail ; ann.curtis@ncl.ac.uk</p>
Nottingham	<p>Stem Cell Processing</p> <p>Processing and/or cryopreservation: autologous and allogeneic BM, autologous and allogeneic PBSC, DLI.</p> <p><i>in vitro</i> Analyses</p>	<p>Sally Anderson, Stem Cell Transplant Laboratory, Clinical Sciences Building, Nottingham University Hospitals NHS Trust, City Hospital Campus, Hucknall Road, Nottingham NG5 1PB Tel. 0115 82 31817.</p>

	Committed progenitor assay.	Fax 0115 82 31820. e-mail : sally.anderson@nuh.nhs.uk
	Immunophenotypic Analyses Measurement of CD34 ⁺ cells (SCT Lab). Acute leukaemia panel. B-cell lymphoproliferative panel. T-cell lymphoproliferative panel. PNH diagnosis. APAAP staining. POD stain for AML M3.	Ian Carter, Department of Molecular Diagnostics and Immunophenotyping, Histopathology, Nottingham City Hospital NHS Trust, Hucknall Road, Nottingham NG5 1PB Tel. 0115 9691169, Ext. 45719. Fax e-mail : icarter@ncht.trent.nhs.uk
	Molecular Diagnostics/PCR analyses Detection of :- t(9;22). t(8;21). t(14;18). t(11;14). t(15;17). (inv. 16). FLT-3 ITD. Ig rearrangement. TCR rearrangement. Chimaerism/STR analysis. JAK2 V617F mutation. CMV.	Ian Carter, Department of Molecular Diagnostics and Immunophenotyping, Histopathology, Nottingham City Hospital NHS Trust, Hucknall Road, Nottingham NG5 1PB Tel. 0115 9691169, Ext. 45719. Fax e-mail : icarter@ncht.trent.nhs.uk
	Molecular Diagnostics/FISH analyses. Abnormalities detected :- 2p24.1 amplification, 5q31 deletion, 7q31 deletions, i(7q), t(8;14), t(9;22), 9q34 deletions, t(12;21),	Kate Martin, Cytogenetics, Nottingham City Hospital NHS Trust, Hucknall Road, Nottingham NG5 1PB Tel. 0115 9691169. Fax e-mail : kmartin5@ncht.trent.nhs.uk

	t(11,14), 11q23 rearrangements, 13q14 deletion, 14q32 rearrangements, t(15;17), inv(16) and t(16;16), 17p13.1 deletion, 18q21 rearrangements 22q12 rearrangements	
	Accreditation status SCT Lab : MHRA accredited. Other Labs : CPA accredited.	
Plymouth	Stem Cell Processing Processing and/or cryopreservation: autologous and allogeneic BM, autologous and allogeneic PBSC, DLI. <i>in vitro</i> Analyses Committed progenitor assay. Measurement of long term culture-initiating cell (LTC-IC)	Mr. Jeff Bowen, Combined Laboratories, Derriford Hospital, Derriford Road, Plymouth PL6 8DH Tel. 01752 792401. Fax 08451558231. e-mail : jeffrey.bowen@phnt.swest.nhs.uk
	Immunophenotypic Analyses Measurement of CD34 ⁺ cells. Acute leukaemia panel. Chronic leukaemia panel. PNH diagnosis. Lymphocyte subset analyses. Neutrophil function tests. Neonatal allo-immune ITP. Leucocyte adhesion molecules. Anti-platelet autoantibodies. CSF markers.	Mr. Sean Carey, Combined Laboratories, Derriford Hospital, Derriford Road, Plymouth PL6 8DH Tel. 01752 792390. Fax 08451558231. e-mail : sean.carey@phnt.swest.nhs.uk
	Molecular Diagnostics PCR analyses	Dr. Joanna Farrugia, Combined Laboratories,

	<p>Detection of t(4;11) in ALL. Detection of t(8;21) in AML-M2. Detection of t(15;17) in AML-M3. Detection of cyclin D1 over expression in MCL. Detection of t(11;14) in MCL. Detection of t(14;18) in follicular lymphoma. Detection of inv(16) in AML-M4eo. Qualitative detection of t(9;22) in CML and ALL. Quantitative detection of BCR/ABL in CML and ALL (TaqMan). Detection of IgH gene rearrangements. Detection of TCR gene rearrangements.</p>	<p>Derriford Hospital, Derriford Road, Plymouth PL6 8DH Tel. 01752 792408. Fax 08451558231. e-mail : joanna.farrugia@phnt.swest.nhs.uk</p>
	<p>Accreditation status CPA.</p>	
<p>Sheffield.</p>	<p>Processing and/or cryopreservation autologous and allogeneic BM (when RBC depletion required), autologous and allogeneic PBSC, Donor lymphocyte T-cell enumeration. Work for BBMR.</p>	<p>Victoria Day, Stem Cell Lab, National Blood Service, Longley Lane, Sheffield S5 7JN. Tel. 0114 2034958. Fax 0114 2034910 e-mail : victoria.day@nbs.nhs.uk</p>
	<p>Immunophenotypic Analyses Measurement of CD34+ cells (ISCT Guidelines). Acute leukaemia panel. Chronic leukaemia panel. Plasma cell investigation Platelet Glycoproteins. T-cell immune monitoring Immuno-platelet counting (ICSH method)</p>	<p>Theresa Smart, Haematology Department, Royal Hallamshire Hospital, Glossop Road, Sheffield S10 4BL Tel. 0114 2712801. Fax 0114 2713736. e-mail : theresa.smart@sth.nhs.uk</p>
	<p>Molecular Diagnostics PCR analyses Detection of :-</p>	<p>Gill Wilson, Molecular Genetics and Haematology, Sheffield Children's Hospital,</p>

	<p>t(9;22) in CML and ALL. t(8;21) in AML-M2. t(15;17) in AML-M3. inv(16) in AML-M4eo. t(14;18) in follicular lymphoma. IgH rearrangement. TCR rearrangement. Quantitative PCR for BCR-ABL. Fragment analysis for chimaeric status (ABI 377 sequencer).</p>	<p>Weston Bank, Sheffield S10 2TH Tel. 0114 2717005. Fax e-mail : gill.wilson@sch.nhs.uk</p>
	<p>Accreditation status Immunophenotyping and Molecular : New CPA Standards (August 2003).</p>	

Southampton	Molecular Diagnostics <ul style="list-style-type: none"> • BIOMED-2 multiplex approach for the analysis of DNA extracted from peripheral blood, bone marrow, fresh/frozen and paraffin embedded biopsies for the :- Detection of IgH (FR1, 2, 3 and incomplete DH) gene rearrangements Detection of IgL (complete and incomplete IgK, complete Igλ) Detection of TCRδ, γ, β gene rearrangements Detection of t(14;18), t(11;14) • TCRβ spectratyping for the analysis of immune reconstitution in BMT patients • Quantitative detection of BCR/ABL in CML and ALL (Taqman) • Chimerisms/STR monitoring/ 	Dr E Hodges Molecular Pathology Duthie Building, MP 225 Southampton University Hospitals NHS Trust Tremona Road Southampton SO16 6YD Tel: 023 8079 6976 Fax: 023 8070 1416 Email: Elizabeth.Hodges@suht.swest.nhs.uk
	Immunophenotypic Analyses Multi-parametric flow cytometric analysis for: <ul style="list-style-type: none"> • Acute Leukaemia • B cell lymphoproliferative disease including non-Hodgkin's lymphoma, hairy cell leukaemia, multiple myeloma • T/NK lymphoproliferative disease • T, B and NK lymphocyte monitoring following BMT including naive and memory B cell subsets • Diagnosis of immunodeficiency 	Dr J Smith / Dr E Hodges Wessex Immunology Level C, MP 8 Southampton University Hospitals NHS Trust Tremona Road Southampton SO16 6YD Tel: 023 8079 6650 Fax: 023 8079 6646 Email: John.Smith@suht.swest.nhs.uk
	Accreditation CPA	

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