Central England Haematology-Oncology & Oncology Research Biobank (CEHRB)
REC reference: 09/H0405/12

Annual Report
April 2015 to March 2016

CEHRB C/o West Midlands Regional Genetics Laboratory
Birmingham Women’s Hospital Edgbaston, Birmingham, B15 2TG
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PART 1- Staff, Samples Stored and Patient Consent

1.1 CEHRB Staff

The following staff members, from the West Midlands Regional Genetics Laboratory contribute to CEHRB activities.

**Director**
Prof Mike Griffiths  Email: mike.griffiths@bwnft.nhs.uk

**Manager and HTA Designated Individual**
Sally Jeffries  Email: sally.jeffries@bwnft.nhs.uk

**Technical and Admin Support**
Kim Piechocki  Email: kim.piechocki@bwnft.nhs.uk
Dipika Patel  Email: dipika.patel@bwnft.nhs.uk
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**Health and Safety Officer**
Nigel Coles  Email: nigel.coles@bwnft.nhs.uk

**Information and Technology Manager**
Gareth Masson  Email: gareth.masson@bwnft.nhs.uk
1.2 Steering Committee

**Prof Charles Craddock (Chair and Representative for Cure Leukaemia)**
Consultant Haematologist
Centre for Clinical Haematology
University Hospital Birmingham NHS Foundation Trust
Email: charles.craddock@uhb.nhs.uk

**Dr Mark Velangi (Pediatric Group)**
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**Dr Richard Chasty (Lymphoma Group)**
University Hospital North Staffordshire
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Staffordshire
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**Kelly Hard (Research and Development)**
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Email: Kelly.hard@bwnft.nhs.uk

**Dr Guy Pratt (Myeloma Group)**
Consultant Haematologist
Heartlands Hospital
Bordesley Green East
Birmingham
West Midlands
B9 5ST
E-mail: guy.pratt@heartofengland.nhs.uk

**Prof Mike Griffiths (CEHRB Director)**
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Edgbaston
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Email: mike.griffiths@bwnft.nhs.uk

**Dr Jeff Neilson (Ethics Representative)**
Consultant Haematologist
Russell’s Hall Hospital
Dudley West Midlands
DY1 2HQ
E-mail: jeff.neilson@dgoh.nhs.uk

**Sally Jeffries (CEHRB Manager)**
West Midlands Regional Genetics Laboratory
Birmingham Women’s Hospital
Edgbaston
Birmingham B15 2TG
Email: sally.jeffries@bwnft.nhs.uk

**Alan MacWhannell (Myeloid Group)**
Royal Wolverhampton Hospital
Wolverhampton Road
Heath Town
Wolverhampton
WV10 0QP
E-mail: Alan.MacWhannell@nhs.net

**Julian Borrow (WMRGL)**
West Midlands Regional Genetics Laboratory
Birmingham Women’s Hospital
Edgbaston
Birmingham B15 2TG
Email: Julian.Borrow@bwnft.nhs.uk
1.3 Types of samples and material stored

**Samples**

- Peripheral Blood
- Marrow
- Solid tumour

**Material from peripheral blood and marrow**

- Cytogenetic fixed cell suspensions
- DNA
- RNA/cDNA
- Fresh peripheral blood and marrow
- Plasma (on request)
- Other (on request)

**Material from Solid tumours (by request only)**

- Fresh tissue
- FFPE slides

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**Percentage of sample types released from CEHRB between 2009-2016**

- Plasma: 34%
- RNA/cDNA: 18%
- DNA: 23%
- Fresh/Viable cells: 9%
- Fixed cells: 16%
1.4 Hospitals involved in seeking patient consent

There are 10 hospitals that have a part funded Research Nurse who is involved in seeking patient consent specifically for CEHRB

- Royal Stoke University Hospital, Staffordshire
- County Hospital, Stafford
- Queen Elizabeth Hospital, Birmingham
- Russell's Hall Hospital, Dudley
- Heartlands Hospital, Birmingham
- University Hospital Coventry
- Worcestershire Royal Hospital, Worcester
- Alexandra Hospital, Redditch
- Sandwell General Hospital, West Bromwich
- New Cross Hospital, Wolverhampton

We have also received patient consent from the following hospitals:

- BMI The Priory Hospital, Birmingham
- Nuffield Health Wolverhampton Hospital
- Mosely Hall Hospital, Birmingham
- Spire Little Aston Hospital, Sutton Coldfield
- Hereford County Hospital
- Princess Royal Hospital, Telford
- Kidderminster Hospital
1.5 Consented patient figures

The following patient consent data are based on consent data received from 11 sites:

<table>
<thead>
<tr>
<th>Hospital List</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALBR</td>
<td>Alexandra Hospital</td>
</tr>
<tr>
<td>CHCB</td>
<td>Centre for Clinical Haematology, Queen Elizabeth Hospital</td>
</tr>
<tr>
<td>EBEB</td>
<td>Heartlands Hospital</td>
</tr>
<tr>
<td>KGKI</td>
<td>Kidderminster General Hospital</td>
</tr>
<tr>
<td>NXVV</td>
<td>New Cross Wolverhampton</td>
</tr>
<tr>
<td>RUDU</td>
<td>Russell's Hall, Dudley</td>
</tr>
<tr>
<td>SDMS</td>
<td>Stafford District General</td>
</tr>
<tr>
<td>SDSA</td>
<td>Sandwell Health Care NHS Trust</td>
</tr>
<tr>
<td>UHNS</td>
<td>University Hospital North Staffordshire</td>
</tr>
<tr>
<td>WGCO</td>
<td>Walsgrave Hospital Coventry</td>
</tr>
<tr>
<td>WRWO</td>
<td>Worcester Royal</td>
</tr>
</tbody>
</table>

1.5.1 Cumulative patient consent since April 2008

- The total number of patients consented during 2015-2016 is **299**
  - The number of patients consenting has decreased since 2011 (by 57%), 42% within the last year. This reduction is likely to reflect the limited resources for consenting patients.
1.5.2 Patients consented from Individual Hospitals

Patient consent has predominantly been secured from Alexandra, Newcross, and Worcester Royal hospitals during 2015-2016.

Number of patients consented per site:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<tr>
<td>ALBR</td>
<td></td>
<td>2</td>
<td>34</td>
<td>41</td>
<td>44</td>
<td>57</td>
<td>178</td>
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<tr>
<td>CHCB</td>
<td>179</td>
<td>124</td>
<td>178</td>
<td>52</td>
<td>33</td>
<td>566</td>
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<tr>
<td>EEBEB</td>
<td>12</td>
<td>35</td>
<td>0</td>
<td>5</td>
<td>0</td>
<td>52</td>
<td></td>
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<tr>
<td>KGKI</td>
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<td>0</td>
<td>10</td>
<td>25</td>
<td>36</td>
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<tr>
<td>NXWV</td>
<td>190</td>
<td>179</td>
<td>70</td>
<td>122</td>
<td>69</td>
<td>630</td>
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<tr>
<td>RUDU</td>
<td>8</td>
<td>61</td>
<td>71</td>
<td>14</td>
<td>16</td>
<td>170</td>
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<tr>
<td>SDMS</td>
<td>136</td>
<td>97</td>
<td>141</td>
<td>86</td>
<td>3</td>
<td>463</td>
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<tr>
<td>SDSRA</td>
<td>53</td>
<td>34</td>
<td>32</td>
<td>27</td>
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<td>146</td>
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<tr>
<td>UHNS</td>
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<td>0</td>
<td>7</td>
<td>11</td>
<td>6</td>
<td>40</td>
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<tr>
<td>WGCO</td>
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<td>0</td>
<td>14</td>
<td>3</td>
<td>4</td>
<td>29</td>
<td></td>
</tr>
<tr>
<td>WRWO</td>
<td>19</td>
<td>14</td>
<td>12</td>
<td>76</td>
<td>61</td>
<td>182</td>
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<tr>
<td>Other*</td>
<td>0</td>
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<td>0</td>
<td>22</td>
<td>25</td>
<td>47</td>
<td></td>
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<tr>
<td>Grand Total</td>
<td>796</td>
<td>623</td>
<td>579</td>
<td>566</td>
<td>472</td>
<td>299</td>
<td>3335</td>
</tr>
</tbody>
</table>

*Other includes consents from centres
PART 2: Projects and Publications

- The total number of samples sent out to ethically approved projects for April 2015 – March 2016 is 218 (compared to 572 in 2014-15). Details are provided below.
  - 10 projects have received samples from CEHRB during this period.
    - 3 new projects and 7 existing projects.
  - 4 new projects were approved
  - 5 sample requests were rejected due to limited resources, unable to provide material or data requested.

- Since Sept 2009 CEHRB has provided 2840 samples to 60 projects. Some of these projects continue to receive samples.
### 2.1 Existing projects that have received samples from CEHRB between April 2015 and March 2016

<table>
<thead>
<tr>
<th>Project No.</th>
<th>Principal Investigator</th>
<th>Laboratory Address</th>
<th>Sponsor</th>
<th>Samples Sent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Type</td>
</tr>
<tr>
<td>3</td>
<td>Dr Tatjana Stankovic</td>
<td>CRUK Institute for Cancer Studies</td>
<td>Kay Kendall Leukaemia Fund</td>
<td>Marrow</td>
</tr>
<tr>
<td>31</td>
<td>Prof Peter Cockerill and Constanze Bonifer</td>
<td>IBR Medical School, University of Birmingham</td>
<td>Leukaemia and Lymphoma Research</td>
<td>Marrow</td>
</tr>
<tr>
<td>34</td>
<td>Dom McMullan</td>
<td>WMRGL</td>
<td>Cytocell</td>
<td>Fixed Cells</td>
</tr>
<tr>
<td>41</td>
<td>Prof Jon Frampton</td>
<td>Institute for Biomedical Research, College of Medical and Dental Sciences, Birmingham University</td>
<td>Not Stated</td>
<td>Marrow</td>
</tr>
<tr>
<td>43</td>
<td>Dr Nicholas Davies</td>
<td>Institute for Biomedical Research, College of Medical and Dental Sciences, Birmingham University</td>
<td>Leukaemia and Lymphoma Research</td>
<td>Blood</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Marrow</td>
</tr>
<tr>
<td>51</td>
<td>Prof David Grimwade</td>
<td>Grimwade-Guy</td>
<td>Leukaemia and Lymphoma Research</td>
<td>DNA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>RNA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Fixed Cells</td>
</tr>
<tr>
<td>52</td>
<td>Dr Paul Ferguson</td>
<td>The Weatherall Institute of Molecular Medicine, University of Oxford, John Radcliffe Hospital</td>
<td>Not stated</td>
<td>DNA</td>
</tr>
</tbody>
</table>

### 2.2 Newly approved projects that have received samples from CEHRB Between April 2015 and March 2016

<table>
<thead>
<tr>
<th>Project No.</th>
<th>Principal Investigator</th>
<th>Lab. Address</th>
<th>Sponsor</th>
<th>Samples Sent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Type</td>
</tr>
<tr>
<td>57</td>
<td>Hicham</td>
<td>Trans-Hit Biomarkers Inc. Canada</td>
<td>Confidential</td>
<td>RNA</td>
</tr>
<tr>
<td>58</td>
<td>Lynda Bennett</td>
<td>Baylor Institute for Immunology Research, Texas</td>
<td>Baylor Foundation Discretionary Funds</td>
<td>DNA</td>
</tr>
<tr>
<td>59</td>
<td>Prof Nicholas Cross</td>
<td>Wessex Regional Genetics Laboratory</td>
<td>Not stated</td>
<td>DNA</td>
</tr>
</tbody>
</table>
2.3 List of publications/presentations that have used samples from CEHRB

- Since 2009 there have been 18 publications and at least 12* oral presentations that have used samples received from CEHRB
  (* data on oral presentations collated since 2010).
- There was 1 publication and 3 oral presentations/meeting abstracts during the 2015-2016 period; detailed below. We are aware of a further 3 that have been submitted.

Publications (2015/2016)


Oral presentations and meeting abstracts (2015/2016)


3. Genetic Variation at HBS1L-MYB and GFI1B-GTF3C5 Influences whether JAK2 V617F Mutated MPN Present with ET or PV. Nicholas Cross*, Joanna Score, Andrew Chase, Joanna Baxter, Joanne Ewing, Louise Wallis, Joe Chacko, Paola Guglielmelli, Dolors Colomer, Beatriz Bellosillo, Blanca Navarro, Montse Gomez, Juan Carlos Hernández-Boluda, Carlos Besses, Francisco Cervantes, Steffen Koschmieder, Andreas Reiter, Anthony Green, Claire Harrison, Alessandro Vannucchi, William Tapper. (EHA abstract 2016)
PART 3: Targets

3.1. Promotion of the Biobank
- Due to very limited resources the biobank has not undertaken any promotional work this year
- The biobank is present on the following biobank registries; http://www.orpha.net

3.2. Sustainability of CEHRB

The biobank has yet to become sustainable. Funding is still to be sought.

3.3. Review of targets and other achievements for 2015-2016

No targets were achieved due to very limited staff resources. However, 10 projects were supported by CEHRB this year.

*Targets Not Achieved*
- Ensure continued improvement in patient recruitment by liaising with RRN.
- Secure additional funding
- Approve and supply samples to at least 5 projects
  - Only 3 new projects approved
- Seek to establish further collaboration with global Biobank networks to increase income and research portfolio.

3.4. New targets for 2016-2017

- Secure additional funding is the main priority
  - Seek to establish further collaboration with global Biobank networks to increase income and research portfolio.
  - Seek and submit grants for biobank funding
- Approve and supply samples to at least 3 projects
- Ensure continued patient consent by liaising with RRN.

Sally Jeffries BSc(Hons) FRCPath | Principal Clinical Scientist
Deputy Head of Haemato-Oncology Genetics and Manager of CEHRB