

## CURRICULUM VITAE OF ABDULBASIT NAIEL

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<b>Work experience</b>	<ul style="list-style-type: none"><li>• <b>2016 to present Libyan Ministry of education</b><ul style="list-style-type: none"><li>• Member of the Advisory Board of the Center for Quality Assurance and Accreditation of Educational and Training Institutions, Southern Region Branch</li></ul></li><li>• <b>2015 to present Faculty of engineering and technology of Sebha university Libya</b><ul style="list-style-type: none"><li>• Deputy Head of medical laboratories department.</li><li>• Lecturer of genetics, molecular biology and medical genetics at the medical laboratories department.</li><li>• Head of the genetics and tissues laboratory.</li><li>• Research supervisor of a number of undergraduate and postgraduate students.</li></ul></li><li>• <b>2010-2014 Brunel University London</b><ul style="list-style-type: none"><li>• Hourly paid demonstrator in BSc and MSc laboratory practicals "Fluorescence in Situ Hybridisation (FISH) practical to MSc students, Histology and Microscopy practical to level 1 biomedical students, and Embryology practical to level 1 biosciences students.</li><li>• Mentoring to final year project students and Master project students.</li></ul></li><li>• <b>Central Hospital of Brak city 2000-2006</b><ul style="list-style-type: none"><li>• Lab technician in central hospital of Brak city (Libya)</li></ul></li></ul>
<b>Skills</b>	<ul style="list-style-type: none"><li>• Excellent interpersonal and team working skills.</li><li>• Excellent laboratory organisation skills.</li><li>• Ability to prioritise and multitask. Ability in troubleshooting and problem solving</li><li>• Highly self-motivated, focused on meeting objectives</li><li>• Used to working on own initiative and also as part of a team.</li><li>• Flexible and responsive to unplanned situations</li><li>• Computer literate: Microsoft: Excel, Word, Power point, Access, Outlook.</li></ul>
<b>Technical and laboratory skills</b>	<ul style="list-style-type: none"><li>• Basic laboratory skills: preparation of culture media, buffer solutions, antibodies etc.</li><li>• Cellular biology: Cell culture of leukaemia derived cell lines (K562 , GDM-1, CRL 2630, Farage, CRL 2632) and primary cells (peripheral blood cells).</li><li>• Cytogenetics: harvesting of cell cultures and preparation of nuclei and chromosome fixed suspensions for fluorescence in situ hybridisation (FISH), spreading of fixed suspensions on microscope slides.</li><li>• Microbiology: liquid and solid culture of bacterias, isolation work in class II laboratory.</li></ul>

- Microscopy: fluorescence and light microscopy.
- Molecular biology cloning: DNA and RNA extraction, DNA purification, DNA gel analysis, DNA labelling.
- Techniques: cell culture, Fluorescence in situ hybridization (FISH) using both commercial and in-house made probes, , Immunofluorescence, Immuno\_FISH, labelling of FISH probes using nick translation.

## Education and Qualifications

### 2010-2014 PhD in Bioengineering - Brunel University London

- December 2014 : PhD Degree in Bioengineering. Thesis entitled « Study of acute myeloid leukaemia with known chromosomal translocations », carried out in the Division of Biosciences, Brunel University, under the supervision of Dr Sabrina Tosi. .
- Description of thesis work: This work focused on the study of samples derived from acute myeloid leukaemia patients carrying chromosomal translocations associated with the disease.
- The specific objectives were:
  - 1- To identify t(7;12) translocation in acute myeloid leukaemia samples using a novel three-colour fluorescence in situ hybridization approach.
  - 2- To detect deletion 7q in patient samples with acute myeloid leukaemia using a new three colour probe sets.
  - 3- To identify inv(16) in acute myeloid leukaemia samples. Questions: (a) Can CNAs be identified in these leukaemias? (b) If yes, are CNAs present in the same leukaemic clone harbouring the inv(16)? If not, are the CNAs present in the non-dividing population of cells? Do CNAs have an impact on the prognosis of this group of patients?  
This work focused also on analysing the proliferative status of Leukaemic cells by using Fluorescence in situ hybridisation technique ImmunoFISH to find different chromosomal abnormalities, once these abnormalities were defined, a proliferation marker antibody was applied to decide the proliferative status of the cells.

### 2006-2008 MSc in Medical Research- University Science Malaysia

- August 2008 : MSc Degree in Medical Research. Thesis entitled « Comparison of fluorescence in situ hybridization and immunohistochemistry for the investigation of HER2/neu in breast cancer », The general Objective was to evaluate HER2 status in breast cancer cases retrieved in Advanced Medical and Dental Institute (AMDI) Laboratory.
- The specific Objectives were:
  - 1- To develop immunohistochemistry (IHC) and fluorescence in situ hybridization (FISH) techniques in the evaluation of HER2 status in breast cancer tissue.
  - 2- To compare the results of immunohistochemistry (IHC) and fluorescence in situ hybridization (FISH) in the evaluation of HER2 status.

### 1996- 2000 BSc in Biology- Alttahddi University Libya

## Achievements

### Publications:

1. Kamel YM, **Naiei A**, Alshehri A, Vetter M, Saccone S, Anderson R, Tosi S (2014) Fluorescence in situ hybridisation assays designed for del(7q) detection uncover more complex rearrangements in myeloid leukaemia cell lines. *Trends in Cancer Research* 10: 17-26.
2. **Naiei, A.**, Vetter, M., Plekhanova, O., Fleischman, E., Sokova, O., Tsaur, G., Harbott, J. and Tosi, S., (2013) A novel three-colour fluorescence in situ hybridization approach for the detection of t(7;12)(q36;p13) in acute myeloid leukaemia reveals new cryptic three way translocation t(7;12;16), *Cancers* 5 (1) : 281- 295.

### Presentations to conferences:

- “**Study of copy number changes in inv (16) leukaemia** ” The European Cytogeneticists Association conference, Dublin, 29June-2 July 2013.
- “ **study of copy number alteration in acute myeloid leukaemia** ” The SHSSC conference, London, 11 July 2013.
- “**Study of t(7;12) rearrangements in childhood leukaemia** ” The SHSSC conference, London, 11 July 2012
- “ **Study of nuclear pore genes and proteins and their role in leukaemia** ” ” The SHSSC conference, London, 11 July 2010

### Presentations to internal seminars and lab meetings:

**12 April 2017 postgraduate day seminar at medical laboratories. Sabha university** ( The use of Molecular cytogenetics methods for the detection of chromosomal abnormalities )

**22 June 2016 Seminar at medical laboratories department, Sabha university** ( Molecular rearrangement in AML and its prognostic factor )

**16 March 2015 Seminar at Faculty of engineering and technology, Sabha university,** ( chromosomal rearrangement in the blood cells )

**29 May 2013 Seminar at Brunel Institute of Bioengineering** (A novel three-colour fluorescence in situ hybridization approach for the detection of t(7;12)(q36;p13) in acute myeloid leukaemia reveals new cryptic three way translocation t(7;12;16))

### Lab meetings

**17 October 2013 Lab meeting presentation (Validation of new three colour probe sets for the detection of deletion 7q chromosome.**

**25 March 2013 Lab meeting presentation (study of known chromosomal translocations in acute myeloid leukaemia).**

**4 May 2012 Lab meeting presentation (Validation of a custom made probe sets for the identification of t(7;12) in infant leukemia.**

**21 January 2012 Lab meeting presentation (study of copy number changes in inv(16) leukaemia)**

**10 June 2010 Lab meeting presentation (Study of nuclear pore complex genes and proteins and their role in leukaemia).**

**Attendance to Conferences:**

- The first scientific conference for graduate students at the University of Sabha, 18 April 2017
- The SHSSC conference, London, 11 July 2013.
- The European Cytogeneticists Association conference, Dublin, 29June-2 July 2013.
- The SHSSC conference, London, 11 July 2012
- Leukaemia and Lymphoma research conference, London 2012
- The SHSSC conference, London, 11 July 2010
- Leukaemia and Lymphoma research conference, London 2010

**Volunteer's work**

- 1- Founding member of Al Dameer organisation for human rights in Libya.
- 2- Head of monitoring and documenting office for human rights violations in south of Libya at Victims organization for human rights.
- 3- Main supervisor of the surveys and monitoring committee of the spread of genetic diseases in the Al Shati area in cooperation with the General Hospital of Barak city, Libya
- 4- - A volunteer at ambulance

**Language Skills**

- Fluent in English
- Native in Arabic