# Curriculum Vitae

**Name** : Rifat Hamoudi

**Address** : Research Institute for Medical and Health Sciences
College of Medicine
University of Sharjah
Sharjah
United Arab Emirates

Email: rhamoudi@sharjah.ac.ae

Websites:
http://www.sharjah.ac.ae/en/academics/Colleges/Medicine/dept/dcs/Pages/ppl_detail.aspx?mcid=18

https://profiles.ucl.ac.uk/11462-rifat-hamoudi

http://rifathamoudi.co.uk

Google scholar:
https://scholar.google.com/citations?user=5QqK1kIAAAAJ&hl=en

Research Gate: https://www.researchgate.net/profile/Rifat_Hamoudi

Scopus:
https://www.scopus.com/authid/detail.uri?authorId=7003699541

**Mobile** : 00971-567154756

**Nationality** : British

# Profile and activities

- International researcher with proven track record of research in molecular, cellular and computational medicine with expertise spanning the field of computer science, engineering and medicine
- Director of the Centre of Excellence for Precision Medicine
- Director of the Biomedically Informed Artificial Intelligence Laboratory
- Director of the Tissue Bank
- Head of the Bioinformatics & Functional Genomics research
- Served on national UAE committees including those for Emirati Genome Project, COVID and Artificial Intelligence
- Executive member of the ASPIRE Research Institute in Abu Dhabi
- Head of Research Committee at the College of Medicine
- Brought a total of 21,349,208 AED for his research with 25 grants as Principal Investigator, 12 grants as co-investigator bringing a total of 2,500,000 AED thus far
- PI on British grants from charities such as Breast Cancer Now and Wellcome Trust research excellence grants in UK
- 22187 citations with H-index of 64 with Google Scholar (https://scholar.google.com/citations?user=5QqK1kIAAAAJ&hl=en) and H-index of 56 with Scopus (https://www.scopus.com/authid/detail.uri?authorId=7003699541)
- Published in high impact journals including Lancet, Science, Cell, Nature Biotechnology and Nature Genetics
- Has 3 MSc degrees spanning the fields of Computer Science, Biochemistry/Molecular biology and Electrical & Information Engineering. Has Ph.D. that spans the fields of pathology, immunology, and bioinformatics
- Contributed to the design and lecturing of new MSc programs in AI in Biomedicine and Healthcare, Biomedical Engineering, Biomedical Statistics and Research Methodologies and Surgical Oncology
- Co-authored more than 280 scientific publications across the fields of medicine, engineering and computer science
- Supervised 43 PhD and 16 MSc students as main or co-supervisor in bioinformatics and biomedical research to date
- Worked as Associate Lecturer in Computer Science for 16 years
- Has 7 international patents as; 3 as PI and 4 as Co-I with 2 pending filing
- Developed new strategy for online courses based on the interactive FLIPPed classes philosophy
- Holds the professional Chartered Engineer (CEng) and Chartered Scientist (CSci) as well as European Engineer status in addition to others
- Holds Fellow of the Higher Education Academy (UK)
- Leading a collaborative project between MIT and other worldwide universities to develop online learning tools
- Best Researcher Award for 2022
- Recognised in the top 2% of scientist in his field
- Selected as a member of the committee to construct the data analysis pipeline for the Emirati Genome Project
- Member of the editorial board for 14 scientific journals

## Education

2007 - 2011 Ph.D. Molecular Medicine and Pathology
Department of Pathology,
University of Cambridge

Project title: Molecular pathogenesis of MALT lymphoma
Subject: (Pathology, Immunology and Bioinformatics)

1997 - 2000 M.Sc. Computing Science
Birkbeck College, University of London

Project title: Automation of workflow within laboratory using novel Web-based Client/Server Information Management Software

1992 - 1994 M.Sc. Information Engineering
(Specialisation in Biomedical Computing, Informatics and Instrumentation)
City University, University of London

Project title: Development of brain imaging software for functional brain imaging using MRI, PET and Neuroelectromagnetic data

Source Code:
1) Hybrid Routines for Brain Imaging Software
2) Image Registration Software
3) 3D CAD Surface Modelling Software

1991 - 1992 M.Sc. General Biochemistry & Molecular Biology
King's College, University of London

Project title : Sequencing and expression of mouse testis-specific cDNA clones mapping to the t-complex using pGEX-2T GST fusion vector

1990 - 1991 Postgraduate Diploma in Computing
University of North London

Project title : Development of Medical Expert System for diagnosing diseases

**Professional Experience**

June 2020 – Present: College of Medicine, University of Sharjah, Sharjah, UAE.

Post: Professor in Molecular, Cellular and Computational Medicine

Duties and Achievements:

1) Director of the Centre of Excellence for Precision Medicine
2) Director of the Biomedically Informed Artificial Intelligence Laboratory
3) Director of the Genetics Laboratory
4) Director of the Tissue Bank
5) Head of the Bioinformatics & Functional Genomics research group
6) Head of the Bioinformatics & Functional Genomics research
7) Served on national UAE committees including those for Emirati Genome Project, COVID and Artificial Intelligence
8) Executive member of the ASPIRE Research Institute in Abu Dhabi
9) Head of Research Committee at the College of Medicine
10) Designed and lectured courses on Advanced Human Molecular Genetics, Gene Expression, Bioinformatics and Advanced Molecular Biology Techniques for MSc and PhD in Molecular Medicine
11) Designed online course entitled "Statistics and Research Methodology in Biomedicine" for BSc/MSc/PhD and faculty and lectured on that as well as using novel IT technology that he developed as innovation in Medical Education
12) Supervised 15 PhD students as main and co-supervisor to completion (6 as main and 9 as co-supervisor)
13) Supervised total of 9 MSc students (6 as main and 3 as co-supervisor) to completion as main supervisor
14) Setup Tissue Bank facility for COVID19 at UoS to include the latest in next generation pathology
15) Lead bioinformatician/statistician on various projects involving the molecular pathogenesis of various diseases
16) PI on Al-Jalila grant to study the interplay of HER2/ER/PR in breast cancer and on innovative Asthma project that uses engineering approaches to decipher the molecular mechanism of Asthma
17) PI and Co-I on 30 grants
18) Involved research on the mechanism of various drugs and compounds on biological systems
19) Best Researcher Award Prize for 2022
20) Development of pathology and histology software for biomarker characterisation
21) Co-Investigator on grants that combine medical imaging with molecular pathology
22) Served on various University committees such as University Research Board and committee for College of Computing and Informatics, IT governance, Tissue Bank, Innovation
23) Led committee for interdisciplinary research between Engineering, Mathematics, Sciences and Medicine
24) Developed MSc programme in Biomedical and Health Informatics at the University of Sharjah
25) Chair of the College of Medicine research committee
26) Obtained international patents as PI on 4 patents such as that entitled "Diagnostic and Prognostic Liquid Biopsy Biomarkers For Asthma". The Patent Application holds

registration number is: WO2021044385A1 (https://patents.google.com/patent/WO2021044385A1/en)

27) Developed mathematical models for Cardiovascular Disease and Obstructive Sleep Apnoea in collaboration with Expo2020 team
28) Developed cost effective single cell OMICs assay combining pathology with mathematics, molecular biology, and bioinformatics
29) PI on 5 year legacy project entitled: "Prevention and accurate diagnosis of Neurological and Chronic Complex diseases prevalent in the UAE using Artificial Intelligence and Computational Medicine"

Feb 2017 – May 2020: College of Medicine, University of Sharjah, Sharjah, UAE.

Post: Associate Professor in Molecular, Cellular and Computational Medicine

Duties and Achievements:

1) Designed and lectured courses on Advanced Human Molecular Genetics, Gene Expression, Bioinformatics and Advanced Molecular Biology Techniques for MSc and PhD in Molecular Medicine
2) Designed online course entitled "Statistics and Research Methodology in Biomedicine" for BSc/MSc/PhD and faculty and lectured on that as well as using novel IT technology that he developed as innovation in Medical Education
3) Supervised 8 PhD students as main and co-supervisor
4) Supervised 4 MSc students as main supervisor
5) Setup Tissue Bank facility at UoS to include the latest in next generation pathology
6) Setup Genomic facility at UoS to include the latest in NGS and genome research
7) Lead bioinformatician/statistician on various projects involving the molecular pathogenesis of various diseases
8) PI on Al-Jalila grant to study the interplay of HER2/ER/PR in breast cancer in UAE populations
9) PI on Al-Jalila grant to study the interplay of HER2/ER/PR in breast cancer and on innovative Asthma project that uses engineering approaches to decipher the molecular mechanism of Asthma
10) PI and Co-I on 17 grants
11) Head of the Bioinformatics & Functional Genomics research group
12) Carry out research on the mechanism of various drugs and compounds on biological systems
13) Participated in PBL for undergraduate medical students
14) Implementation of novel software for Next Generation Sequencing analysis and annotation
15) Development of pathology and histology software for biomarker characterisation
16) Co-Investigator on grants that combine medical imaging with molecular pathology
17) Served on University committees such as University Research Board and committee for College of Computing and Informatics
18) Led committee for interdisciplinary research between Engineering, Mathematics, Sciences and Medicine
19) Developed MSc programme in Biomedical and Health Informatics at the University of Sharjah

20) Chair of the College of Medicine research committee
21) Director of the Genetic Laboratory
22) Director of the Tissue Bank
23) Obtained international patent as PI entitled “Diagnostic and Prognostic Liquid Biopsy Biomarkers For Asthma”. The Patent Application holds registration number is: WO2021044385A1 (https://patents.google.com/patent/WO2021044385A1/en)

Oct 2013 – Present: Division of Surgery and Interventional Science,
University College London, London, WC1E 6BT.

Post : Honorary Professor from 2023
Associate Professor in Molecular and Computational Pathology

Duties and Achievements:

1) Designed and lectured courses in cancer biology and tumour suppressors for MSc Surgical Science (Surgical Oncology module)
2) Designed and lectured modules in Medical Statistics and Bioinformatics for BSc/MSc Research Methodologies and Transferable Skills course
3) Initiated the bioinformatics part of GAP3 project for prostate cancer active surveillance
4) Supervised and co-supervised PhD student in prostate and breast cancer research
5) Setup of Integrated Molecular and Cellular Science laboratory
6) Launched the Personal Genome Project-UK computational part with Professor Stephan Beck (https://www.personalgenomes.org.uk)
7) Contributed to media reports informing the public about PGP (Personal Genome Project) UK
8) Co-investigator on MRC grant linking medical imaging with digital pathology and genomics
9) Lead bioinformatician/statistician on different projects involving the molecular pathogenesis of various diseases including one clinical trial and one RING trial
10) Design and implementation of new MSc Translational Biomedical & Health Informatics course
11) Obtained Wellcome Trust Institutional Strategic Support Fund - Investing in Excellent Researchers grant
12) Obtained Breast Cancer Now grant to identify mechanism of breast cancer disease
13) Principal investigator on prostate cancer grant to study the immune response in prostate cancer resulting from photodynamic therapy
14) Setup and equipped state of the art facility for integrative cell and molecular research
15) Obtained patent entitled “Detection of cancer of the oesophagus” on diagnosing oesophageal cancer using saliva transcriptomic. The patent number is: WO2017137427A1 (https://patents.google.com/patent/WO2017137427A1/en)

2011 – 2013 : Department of Pathology, Rockefeller Building, UCL, WC1E 6JJ.

Post : Head of Research and Development in next generation molecular Pathology and Bioinformatics

Duties and Achievements:

1) Designed and setup a new molecular pathology laboratory to carry out clinical
2) diagnostic testing using Next Generation Sequencing
3) Developed novel Next Generation techniques to study the genome/transcriptome of small number of cells from biopsies
4) Developed novel bioinformatics to analyse the data from Next Generation techniques
5) Developed novel method for mutational screening on routine clinical biopsies
6) Created software for managing and reporting clinical data
7) Supported a project to identify the genetic causes of sarcomas
8) Lead bioinformatician/statistician on different projects involving the molecular pathogenesis of various diseases
9) Setup and designed molecular diagnostics laboratory for UCLAD (http://www.uclad.com) that carries out FISH, IHC, clonality analysis and molecular profiling of patient biopsies
10) Involved in the design and validation of a national MSc in Clinical Bioinformatics program

2003 – 2011 : Department Pathology, University of Cambridge, Cambridge, CB2 0QQ.
Post : Leukaemia & Lymphoma Research Fellow

Duties and Achievements:

1) Used oligonucleotide microarray (Affymetrix) methodology developed in house to analyse MALT lymphoma cases. The research showed that t(11;18), t(1;14) and t(14;18) are different from MALT cases without breakpoint and the expression profiling gave indication to alternative pathway of MALT lymphoma other than NF-κB
2) Microarray target validation using quantitative RT-PCR using iCycler to validate the genes obtained from the cDNA microarray
3) Design and development of software for analysis of CGH microarray data
4) Supported projects involving CGH on salivary and gastric MALT lymphomas
5) Construction of functional lymphoma models that mimic MALT lymphoma with t(1;14), t(11;18) and t(14;18) translocations. This involved the making of stable and inducible B-cell and T-cell lines with the 3 translocations.
6) Developed bioinformatics software and website to support various projects in the department
7) The making of monoclonal antibody for C-MALT1 antibody
8) Development of Array CGH methodology to amplify DNA from FFPE
9) Development of novel Bioinformatics software for analysis of array CGH data in the R language
10) Development of novel Bioinformatics software in the R language to extract useful information from cDNA microarray data
11) Bioinformatics research supporting experimental cellular model of lymphomas
12) Development of gene expression validation using qPCR on FFPE
13) Development of novel software for pathway analysis of lymphomas and other diseases
14) Functional and protein chemistry research. This included the use of functional assays such as NF-κB luciferase assay, kinase assay, flow cytometry and apoptosis assays
15) Supervising PhD students with their research
16) Designed and lectured bioinformatics course using R for medical and biomedical students
17) Assistant lecturer in Mechanism of Disease course for medical student
18) Demonstrator for pathology practical sessions

2001 – 2011 : Department of Histopathology, UCL, London, WC1E 6JJ.
Post : Senior Bioinformatician

Duties and Achievements:

1) Troubleshooting and repair of hardware/software and peripherals problems
2) Networking various computers and printers and upgrading older network in department using TCP/IP and AppleShare protocols
3) Setting up, configuration and implementation of departmental web server using Linux and Apache software
4) Implementation of secure departmental FTP server and networking computers to it allowing multi-platform cross talk between Unix, PC and Macintosh computers. Also allowing researchers to continue working from home
5) Decision on hardware and software purchasing
6) Upgrading of PC to Windows 2000 and XP
7) Development of novel Internet based software for correlation of immunohistochemical markers to various tumours
8) Development of novel Macintosh based software for quality control of high throughput sequencing and genotyping data
9) Implementation of database software for storage and retrieval of Radical Prostatectomy data
10) Implementation of database software for the generation of automatic reports on HER2 immunocytochemistry data
11) Design and implementation of UK NEQAS immunohistochemistry website. This was taken over by a company and can be seen at: http://www.ukneqasiccish.org/
12) Design and implementation of parts of the UCL Advanced Diagnostic website which is spinout biotech company from UCL. The website can be seen at: http://www.hsl-ad.com
13) Lecturing medics on bioinformatics and medical statistics
14) Network and database programming using VB.NET and C++/C# to automate UCLAD IHC

2001 – 2003 : Department of Histopathology, UCL, London, WC1E 6JJ.
Post : Research Fellow in Lymphoma

Duties and Achievements:

1) Investigation into cellular origin of Primary Effusion Lymphoma (PEL) showed that EBV negative PEL tend to originate from naïve B-cells whereas EBV positive PEL derive from germinal or post germinal centre B-cells.
2) Design, development and implementation of oligonucleotide microarray methodologies and novel software for data analysis.
3) Used oligonucleotide microarray (Affymetrix) methodology developed in house to analyse MALT lymphoma cases. The research showed that t(11;18) and t(1;14) are different from MALT cases without breakpoint and the expression profiling gave indication to alternative pathway of MALT lymphoma other than NF-κB.
4) Used oligonucleotide microarray to analyse cases from Castleman's disease showing that KSHV positive Castleman shows lambda light chain restriction.
5) Supported work on the characterisation of genomic breakpoint junction in t(11;18)(q21;q21) translocation in MALT lymphoma.
6) Developed high throughput genotyping methodologies and novel bioinformatics for the characterisation of prognostic markers in cervical cancer.
7) Developed and implemented high throughput gene cloning, characterisation and functional genomic analysis in the department.
8) Supported work on Comparative Genome Hybridisation (CGH) in the department.
9) Design and implementation of novel Internet based Laboratory Information Management System (LIMS) software for the management and tracking of oligonucleotide microarray (Affymetrix) samples.
10) Developed bioinformatics software to support various projects in the department.

1995 – 2001 : Haddow Labs, Institute of Cancer Research, Sutton.
Post : Cancer Gene Cloning Centre Manager & Higher Scientific Officer

Duties and Achievements:

1) Designing and setting up the Cancer Gene Cloning Centre in 1995
2) Day to day management, supervision, and training of Gene Cloning Centre staff for the last 5 years
3) Development and implementation of novel gene cloning techniques using robotics and ABI 377 DNA sequencers
4) Writing user manuals and training and supervising lab staff and software users
5) Developing and implementing a system for PAC library administration, storage and Processing
6) Involved in the identification of many important cancer genes including BRCA2, PRCC/TFE3, BCL10, Peutz-Jaegers and many leukaemia genes
7) Involved in the localisation of the testicular cancer gene TGC1 to chromosome X
8) Budget management of the lab and negotiation with companies to obtain capital equipment
9) Was awarded A+ (highest grade) on the performance related pay scheme twice
10) Recruiting, interviewing and training staff for the Cancer Gene Cloning Centre
11) Troubleshooting robotics and instrumentation problems
12) Administer and manage hardware and software installation and contracts
13) Writing budget and laboratory usage reports
14) Giving presentation and seminars to users to explain novel techniques and software
15) Design and organise Cancer Gene Cloning laboratory tours for visitors, fund raisers and MPs
16) Involved in the development of novel CSGE technique for high throughput mutation detection on the ABI 377
17) Development of high throughput fragment analysis systems and software to speed up prostate cancer linkage and other linkage projects
18) Development of high throughput system for making and storage of libraries for the development of microarray techniques at the Institute of Cancer Research

1995 – 2001 : Haddow Laboratories, Institute of Cancer Research, Sutton.
Post : Engineering and bioinformatics support

Duties:

1) Designing, developing and implementing novel Linkage and sequencing software
2) Implementation of advanced database for the management of gene cloning data
3) Design and development of gene finding software
4) Troubleshooting MAC/PC/Unix hardware and software problems
5) Implementation of novel PAC DNA fingerprinting method and software
6) Unix (Solaris 2.5 and 7) systems administration and support
7) Installation, configuration and management of the Apache Web server software
8) Writing novel robotics software to pick colonies
9) Writing novel gene identification and genetic analysis software
10) Writing technical software/hardware manuals to train staff on the usage of instrument / software to isolate and characterise cancer causing genes
11) Designed, setup and implemented the bioinformatics infrastructure for the Institute of Cancer Research Sutton site to carry out high throughput sequence Analysis, LOH studies, Linkage studies, fingerprinting, physical mapping and CSGE
12) Management of bioninformatics at ICR, Sutton regarding data backup, storage and processing
13) Supporting users consultant for bioinformatics and computer issues for the sections of Cancer Genetics (sequencing, GeneScan, Staden, fingerprinting, AceDB and Linkage software) and Molecular Carcinogenesis (sequence analysis, GeneScan and design and implementation of a safe data handling and backup system for Janet Shipley's FISH group)
14) Writing in house tailor made software to enhance the automation of data analysis and speed the gene identification process
15) System analysis, design and implementation of a novel web-based information management software to automate the workflow within the Gene Cloning Centre and allow users to book samples and view their data over the Web.

1999 – 2016 : Open University, 1-11 Hawley Crescent,
Camden Town, London, NW1 8NP.

Post : Associate Lecturer in Computer Science

Courses taught at BSc and MSc:

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| M206 | : Object Oriented design methodologies |
| MT262 | : Object Oriented programming using C++ |
| M150 | : Data, computing and information using JAVA and Javascript |
| MT264 | : Designing applications with Visual Basic |

**Consultancy work**

2013 – 2014 Brandon Point Industries Ltd., Ireland

Consultancy work on next generation sequencing development

1998 – 2000 Genomic Solutions Ltd., 8, Blackstone Road, Huntingdon,
Cambridgeshire, PE29 6EF.

Consultancy work on design, development and beta-testing of new robotics and instrumentation system for microarray and functional genomics

1997 – 1998 National Diagnostics, Unit 4, Fleet Business Park, Itlings Lane, Hessle,
Hull HU13 9LX.

Development of a novel universal gel matrix that can be used for GeneScan, sequencing on 36cm WTR and 48cmWTR plates.

1995-1996 Applied Biosystems Inc. Kelvin Close, Birchwood Science Park North,
Warrington, Cheshire, Wa3 7PB.

Consultancy work and beta-testing of sequencing chemistry and software

## <u>UAE Grants obtained 2017-2023</u>

| No. | Title of research project | Role | Funding organization | Year and duration | Funding in AED |
|---|---|---|---|---|---|
| 1 | Virtual Research Institute for Precision Medicine | PI | ASPIRE and International fundings | 2022-2026 | 7,850,000 |
| 2 | Molecular And Functional Analysis of Non-Invasive Salivary Biomarker Panel to Classify and Manage Severe Asthmatic Patients | PI | Sanofi pharmaceutical and University of Sharjah | 2022-2025 | 400,000 |
| 3 | Identification Of Salivary Microbiome in Association with Severe Asthma | PI | University of Sharjah | 2022-2024 | 80,000 |
| **4** | Breast Cancer Brain Metastasis: Identifying the microRNAs Signature That Promotes Extravasation Of Triple Negative Metastatic Breast Cancer Cells Through The Blood-Brain Barrier | PI | University of Sharjah | 2022-2025 | 200,000 |
| 5 | Construction Of Interpretable Artificial Intelligence and Deep Learning Models Based on Integrative Neuroimaging and Genetics Data for Predicting Abnormal Emotional Development | PI | Skolkovo Institute of Technology and University of Sharjah | 2020-2022 | 260,000 |
| 6 | The use of bioinformatics and engineering mathematics followed by biological in vitro and in vivo validation to decipher the molecular mechanism of COVID-19 infection of the respiratory tract | PI | University of Sharjah | 2020-2022 | 210,000 |
| 7 | The role of HER2, Estrogen and Progesterone receptors in Breast Cancer pathogenesis within the UAE population | PI | Al Jalila Foundation | 2018-2020 | 298,000 |

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| 8 | Understanding the molecular mechanism of Asthma through Systems Engineering approach | PI | Sharjah Research Academy | 2019-2021 | 400,000 |
| 9 | Effect of PDL-1 downregulation and FoxP3 inhibition on KRAS mutated NSCLC | PI | Boehringer Ingelheim | 2017-2018 | 40,000 |
| 10 | Deciphering the immunological mechanism involved in early lung cancer | PI | Al Jalila Foundation | 2019-2021 | 300,000 |
| 11 | Utilization of WHOOP wearable activity straps to promote overall health and wellness for their workers – CVD work package | PI | Expo 2020 | 2019-2020 | 800,000 |
| 12 | Integrative meta-analysis and bioinformatics approach identifies microRNA-21 and its targets as diagnostic biomarkers for colorectal and pancreatic ductal adenocarcinoma | PI | University of Sharjah | 2019-2021 | 80,000 |
| 13 | Deciphering the mechanism of triple negative breast cancer resistance to PI3K inhibitors | PI | Al Jalila Foundation | 2020-2022 | 300,000 |
| 14 | Identification Of New Genes That Cause Resistance to Pi3k Inhibition In Diffuse Large B-Cell Lymphoma Toward Developing Novel Therapeutic Approaches | Co-I | University of Sharjah | 2019-2021 | 200,000 |
| 15 | Slc26a4 Gene Silencing For A Potential Sirna-Based Therapy Of Respiratory Inflammation | Co-I | University of Sharjah | 2019-2021 | 200,000 |
| 16 | Study Of Epigenetic Mechanisms During Intermittent Fasting In Adults With Obesity | Co-I | University of Sharjah | 2019-2021 | 200,000 |
| 17 | Molecular Characterization of Unicystic and Multicystic | Co-I | University of Sharjah | 2019-2021 | 200,000 |

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| | Ameloblastoma Using Whole Transcriptomic Analysis | | | | |
| 18 | Studying The Impact Of The Shc D Observed Cancer Mutations In The Tumor Cell Behaviour | Co-I | University of Sharjah | 2018-2020 | 200,000 |
| 19 | Elucidating The Impact(S) Of Spaceflight On Circulatory Vascular Function: Clinical, Genomics, Transcriptomics, And Proteomics Parameters | Co-I | Mohammed Bin Rashid Space Centre (MBRSC) UAE Astronaut Programme | 2018-2020 | 300,000 |
| 20 | Genetic And Molecular Characterization of Recurrent Triple Negative Breast Cancer | Co-I | Al Jalila Foundation | 2019-2021 | 300,000 |
| 21 | The Role and Therapeutic Implications of Cyclin-Dependent Kinases 4 And 6 In Colorectal Cancer Patients | Co-I | Al Jalila Foundation | 2019-2021 | 300,000 |
| 22 | Role Of Galanin/Galanin Receptor Signaling As A Potential Novel Therapeutic Target For Colo-Rectal Cancer With Mutant P53 | Co-I | Al Jalila Foundation | 2017-2019 | 300,000 |
| 23 | Role Of Natural Killer Cells in Suppressing and/or Eradicating Hepatic Metastases In NOG Mice. Involvement of Chemokine/Chemokine Receptors Axis | Co-I | Terry Fox Foundation | 2018-2020 | 200,000 |

## UK Grants obtained 2014-2016

| No. | Title of research project | Role | Funding organization | Year and duration | Funding in AED |
|---|---|---|---|---|---|
| 1 | Targeted molecular characterisation of immune response in a prostate cancer model following minimally invasive therapy | PI | Saint Peter’s Trust, Urology Grants, Royal Free Charity | 2016-2017 | 60,000 |
| 2 | The characterisation of molecular | PI | Breast Cancer NOW | 2015-2017 | 77,576 |

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|---|---|---|---|---|---|
| | mechanisms of biomarker intra-tumoural Heterogeneity in breast cancer | | | | |
| 3 | Molecular characterisation of aggressive breast cancer | PI | University of Sharjah | 2015-2016 | 18,000 |
| 4 | Targeted biomarker identification for cancers | PI | Wellcome Trust Institutional Strategic Support Fund | 2014-2015 | 176,000 |
| 5 | Identification of non-invasive biomarkers for detecting oesophageal cancer | PI | Dangoor Research Fund | 2015-2016 | 100,000 |
| 6 | Salivary EpigeNetics to Stratify Oesophageal cancer Risk | Co-I | CORE Fighting Digestive Diseases / Guts UK | 2016-2018 | 199,632 |
| 7 | Theranostic Approach to Patients With Cancer | Co-I | MRC (Medical Research Council) UK | 2015-2016 | 20,540,379.08 |

## Supervision

I am currently main supervisor for 16 PhD students and 2 MSc students. I was involved in the supervision of the following student as the main or co-supervisor:

| **Names of PhD students supervised** | **Thesis title** | **Dates of registration and completion** | **University** |
|---|---|---|---|
| Alicja Gruszka | The genetic characterisation of splenic lymphoma with villous lymphocytes | 1998-2002 | Institute of Cancer Research, University of London |
| Amina El Hamidi | Prognostic molecular markers for cervical intraepithelial neoplasia | 2000-2004 | University College London |
| Alison Goatly | FOXP1 Abnormalities in Lymphoma | 2005-2009 | University of Cambridge |
| Estelle Chanudet | Aetiology and molecular genetics of ocular adnexal and pulmonary MALT lymphomas | 2006-2009 | University of Cambridge |
| Alan James Watkins | Molecular Characterization of Splenic Marginal Zone Lymphoma | 2007-2011 | University of Cambridge |

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|---|---|---|---|
| Alexandra Martinez Bayona | Light-based therapies in Prostate Cancer treatment | 2012-2016 | University College London |
| Shramana Mitul Banerjee | Photodynamic Therapy in Breast Surgical Oncology: in-vitro, in-vivo and first human clinical study | 2013-2017 | University College London |
| David Graham | Identifying the at-risk individual: Studies on the early detection and prevention of oesophago-gastric cancer | 2016-2021 | University College London |
| Mahmood Hachim | The use of integrative OMICs to decipher heterogenous chronic complex disease mechanism: Severe Asthma as a model | 2017-2020 | University of Sharjah |
| Rakhee Ramakrishnan | Role of mitochondria in the development of airway remodeling in severe asthma | 2016-2020 | University of Sharjah |
| Sarah Musa Hammoudeh | The role of intracellular heterogeneity in complex disease pathogenesis: breast cancer, lung cancer and COVID-19 as disease models | 2018-2021 | University of Sharjah |
| Waad Khedr | Failure of Dental Implants Supported Prostheses Is Associated with Titanium Particles Induced Inflammation | 2018-2022 | University of Sharjah |
| Alaa Abed | Molecular Pathogenesis of Periapical Lesions in the Alveolar Bone Using Multi-OMICs Approaches | 2018-2022 | University of Sharjah |
| Asma Almansoori | Molecular Pathogenesis of Papillary Thyroid Carcinoma | 2018-2022 | University of Sharjah |
| Laila Salameh | Association Between Severe Asthma and Lung Cancer: Insights into The 3 Molecular Mechanisms | 2018-2022 | University of Sharjah |

| Names of MSc students supervised | Thesis title | Dates of registration and completion | University |
|---|---|---|---|
| Deema Ramadan | Novel HDAC inhibitors as potential epigenetic targeting drugs for solid & hematologic malignancies | 2017-2018 | University of Sharjah |
| Amena Ahmed | Transcriptomic analysis of estrogen receptor overexpression in MDA-MB-453 breast cancer cell line | 2018-2019 | University of Sharjah |
| Samar Arafat | Transcriptomic Analysis of HER2 overexpression in MCF-7 breast cancer cell line | 2018-2019 | University of Sharjah |
| Wafaa Abumustafa | Investigation of APOBEC gene family mutations and their implication in heterogeneity of colorectal and breast cancer | 2019-2020 | University of Sharjah |
| Ghaya Busamah | Validation of the effect of C1QTNF1 in COVID-19 infected patient using lung fibroblasts | 2020-2021 | University of Sharjah |
| Nawar AlShimmari | Correlation of Type III Interferon Receptors Expression with Different Molecular Subtypes of Breast Cancer | 2020-2021 | University of Sharjah |
| Alexis Houssemand | Identification of Diagnostic and Prognostic Radio-Transcriptomic Biomarkers for Breast Cancer Using In Silico Bioinformatics and Artificial Intelligence Approaches | 2020-2021 | University College London |
| Ayaa Al-Nimer | The Correlation of the Expression of Vitamin D Receptor with Insulin-like Growth Factor Receptor 1 among Breast Cancer Patients in UAE | 2021-2022 | University of Sharjah |
| Zuira Tariq | Serum microRNA: A potential blood-based diagnostic biomarker for DKD amongst T2D Emirati patients | 2021-2022 | University of Sharjah |

**Invited talks**

November, 2013 : Pathology Matters conference, Birmingham, United Kingdom
Title : Sensitivity and specificity of Next Generation Sequencing as a diagnostic tool

October, 2014 : Issues with Tissues conference, University of Westminster, United Kingdom
Title : The Utility of Next Generation Sequencing: Clinical Mutation Detection & Expression Analysis

February, 2015 : Association of Clinical Pathology conference, Leeds, United Kingdom
Title : Next Generation Molecular Services – Myths and Magic!

March, 2015 : Advances in Cellular Pathology course, University of Westminster, United Kingdom
Title : Next Generation Sequencing in Clinical Medicine

November, 2015: Towards Bahrain Genome Project: Building on International Experience

**Journal Editorial Boards**

1) Associate Editor (Medicine) for Journal of Advanced Research
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2) Associate Editor for Cancer Immunity & Immunotherapy (part of Frontiers in Immunology and Frontiers in Oncology journals)
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3) Associate Editor in Pulmonary Medicine (part of Frontiers in Medicine journal)
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5) Associate Editor for Computational Genomics
https://www.frontiersin.org/journals/all/sections/computational-genomics#editorial-board

6) Editor for Journal of Medical and Surgical Urology
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9) Editor of Case Reports in Clinical Pathology
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10) Editor for Journal of Molecular Science
https://www.imedpub.com/journal-molecular-sciences/editors.php

11) Associate Editor for SM Journal of Clinical and Medical Imaging
https://smjournals.com/clinical-medical-imaging/editorial-board.php

12) Endocrinology, Diabetes & Metabolism
https://onlinelibrary.wiley.com/page/journal/23989238/homepage/editorialboard.html

13) European Journal of Medical Research
https://eurjmedres.biomedcentral.com/about/editorial-board

14) PLoS One
https://journals.plos.org/plosone/static/editorial-board

15) Scientific Reports
https://www.nature.com/srep/about/editors#editors

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Molecular Cancer Therapeutics: https://mct.aacrjournals.org/
QJM: An International Journal of Medicine: https://academic.oup.com/qjmed
SM Journal of Medical Imaging: https://www.jsmcentral.org/sm-clinical-medical-imaging/about.php
Journal of Virological Methods: https://www.journals.elsevier.com/journal-of-virological-methods
Food and Function: https://www.rsc.org/journals-books-databases/about-journals/food-function/
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BIG Data Research: https://www.journals.elsevier.com/big-data-research
BMC Bioinformatics: https://bmcbioinformatics.biomedcentral.com/

**Professional qualifications**

2019: Chartered Member of Institute of Electrical & Electronic Engineering (IEEE): Membership No. 96294343

2016: Chartered Scientist (CSci): BMS/109/011887

2016: Fellow of the Higher Education Academy (FHEA): PR101635

2014: Member of the Royal Pathological Society, UK: Membership No. 3557

2012: Fellow of the Institute of Biomedical Sciences (FIBMS): Fellowship No. 375850

2004: Member of the British Computer Society (MBCS): Membership No. 08532810

2001: European Engineer (Eur Ing) status: Membership No. 26479

2001: Chartered Engineer (C.Eng) status: Membership No. 531617

1999: Graduate Member of the Institute of Physics and Engineering in Medicine (IPEM): Membership No. 8882

1997: Member of the Institute of Biology (MBiol) and Chartered Biologist (C. Biol) status: Membership No. 003014663

## Publications

Citations 22187
H-index 64

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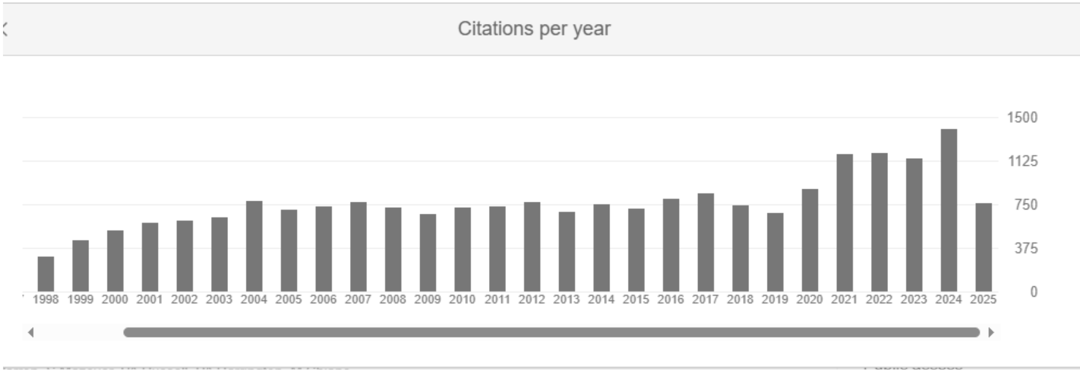


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