(Life Science Lab Role)

Gill Grissom

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EDUCATION

BSc (Honours) Medical Pharmacology, *Cardiff University (2.1)* 2014 – 2018

Relevant modules:

- The Dynamic Cell: Understand the relationship between cell structure and function and how cell characteristics facilitate their metabolic activities.
- Biological Chemistry: Gained an understanding of key structural, informational, and catalytic macromolecules found in living organisms, including proteins, nucleic acids (DNA and RNA), lipids and carbohydrates, and explains their functional significance.
- Structure and Function of Living Organisms: gained insight into tissue function, acid base balance, secretion, hormones, and endocrinology.

A Levels, Shelton 6th form, Devon 2012 – 2014

Biology (A), History (A), Physics (B), A/S Maths (C)

GCSEs, *St George school*, Devon 2010 – 2012

9 A– B's including Biology, Physics, Chemistry, English, Mathematics,

RELEVANT SKILLS

Laboratory Skills and Techniques

Obtained from research projects and degree modules:

- Proficient in executing various laboratory procedures with precision and efficiency while adhering to Standard Operating Procedures (SOPs), including batch preparation for DNA extraction, application of PCR techniques, and creation of microbial samples.
- Competent in conducting and documenting biochemical tests on cells and tissues safely and effectively.
- Skilled in identifying and interpreting pollutant levels in organic samples accurately.

Communication

- Capable of articulating scientific results and findings clearly in both written and verbal formats to non-scientific audiences.
- Possess strong verbal and presentation skills honed through peer collaboration and formal presentations in professional settings.

Teamwork

- Demonstrated three years of collaborative experience working on laboratory experiments and research projects within small teams.
- Adaptable to team dynamics and proficient in providing support to team members as needed to foster a positive and productive working atmosphere.

Computer Literacy, numeracy and statistics

- Proficient in utilising bioinformatics tools to analyse large datasets such as DNA and protein sequences.
- Highly skilled in navigating online databases including Vortex, Excel, and PubMed.
- Completed coursework in statistics and a dissertation focusing on data analysis, utilizing statistical software such as R and SPSS.
- Competent and confident in applying numerical and statistical formulas to develop solutions and arguments effectively.

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RELEVANT EXPERIENCE

Research Assistant, Cancer and Genetics Building, Cardiff University June 2017- January 2018

- Executed pivotal laboratory experiments alongside a dedicated research team, facilitating the identification of genetic variants in individuals with unexplained colorectal adenomatous polyposis. This encompassed protocol optimization to address research challenges, enabling the acquisition of extensive datasets from NHS patient samples, in strict adherence to confidentiality agreements and the Human Tissue Act.
- Effectively communicated results to supervisors during weekly meetings, and the data generated significantly contributed to a research paper. The successful outcomes of the summer project led to the extension of my contract within the department.

Research Assistant, Cardiff University September 2016- June 2017

- Conducted a professional training year project investigating the modelling, diagnosis, and therapeutic intervention of neurodegenerative disorders.
- Operated within a lipidomic laboratory, involved in the preparation of animal tissue and assisting with LC-MS and GC-MS analysis, gaining experience in both in vivo and in vitro techniques.
- Undertook additional contract work for an external pharmaceutical company under GLP guidelines.
- Received commendation for effective interdisciplinary team collaboration, adept research design, and impactful poster presentation.

Research Project, Cardiff University June-August 2015

'Investigating the effect of a trial drug therapy on hypertension-associated proteinuria'

- Carried out the Bradford Assay technique using two standard solutions, Bovine Serum Albumin and Ovalbumin, and three urine samples to measure how the drug impacted on the proteinuria sufferer's protein levels.
- Executed spectrophotometric measurements at appropriate wavelengths, employing a UV-Vis spectrophotometer to quantify protein levels in urine samples post-treatment with the trial drug.
- Analysed absorbance data using appropriate software or manual calculations, extrapolating protein concentrations and assessing the impact of the trial drug on proteinuria severity.
- Maintained laboratory hygiene and safety protocols throughout the assay procedure, minimising contamination risks and ensuring a safe working environment for myself and colleagues.
- Documented experimental procedures, observations, and results in a comprehensive laboratory notebook, facilitating data analysis and interpretation for subsequent research stages.

OTHER EXPERIENCE

Events steward and Customer Services Assistant, *Godwin Estate* June 2012-August 2013

- Consistently provided excellent customer service in both summer roles.
- Assisted with a wide range of enquiries whilst supporting a large busy team.
- Remained calm and professional when dealing with challenging situations during busy periods.

Week Work Experience, *Radiotherapy, OT Plymouth hospital departments,* Devon August 2012

- Observed patient consultations and various clinical treatments during a week placement.
- Provided effective administrative assistance to a multidisciplinary team.

REFERENCES

Full Name (title), Cardiff University, email

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