

ALI AZIMI

Post-doctoral Research Associate

A Postdoctoral Researcher at the University of Sydney with extensive experience in cutting-edge mass spectrometry techniques, complex data analysis, bioinformatics analysis and documented publication record in peer-reviewed literature. Have over three years of experience in undergraduate teaching and higher degree by research (HDR) student supervision.



Work History

**2019-02 -
Current**

Pot-Doctoral Research Associate

The University of Sydney, Australia

- Designed and performed proteomic research to resolve the molecular landscape of skin cancers.
- Collaborated with team members to initiate best practices to achieve organizational goals.
- Wrote research papers, reports, reviews and summaries regarding skin cancer proteomics

**2018-07 -
2019-02**

Research Assistant

The University of Sydney, Australia

- Planned, modified and executed proteomic research techniques and procedures.
- Organized paperwork, including participant-informed consent waivers and research scope documentation.
- Prepared literature for reports, presentations or submission to peer-review journals.



Education

**2021-03 -
Current**

Graduate Certificate: Educational Studies (Higher Education)

The University of Sydney, Australia



Contact

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Skills

Skin cancer research



Mass spectrometry



Teaching



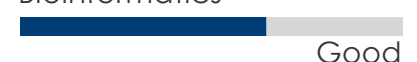
HDR supervision








Immunohistochemistry



Bioinformatics



2014-07 - 2018-12	PhD.: Proteomic Studies of Non-melanoma Skin Cancer <i>The University of Sydney, Australia</i> <ul style="list-style-type: none"> Thesis: Proteomic studies of non-melanoma skin cancer 	Grant writing  Very Good Omics data analysis  Very Good
2009-03 - 2020-07	Bachelor (hon): Medical Sciences <i>The University of NSW, Australia</i> <ul style="list-style-type: none"> Thesis: The effect of carboxyamidotriazole on colorectal cancer cells 	 Languages <hr/> Persian/Dari/Hazaragi  Excellent
2008-03 - 2008-12	South Australian Certificate of Education: High School <i>The Thebarton Senior College - Adelaide, South Australia</i>	English  Excellent



Teaching Experience and Activities

Teaching

I have participated in the following teaching activities:

2018 – Current	Lead lab demonstrator for immunohistochemistry laboratory sessions; AMED3001 (Cancer) UoS, School of Medical Sciences, The University of Sydney Revised teaching materials delivered minimum five laboratory sessions each year and led the demonstrator team.
2019-2020	Team Based Learning (TBL) Facilitator , Sydney Medical School, The University of Sydney <i>Facilitated over five TBL sessions for around 70 first-year medical students.</i>

Curriculum Development

I have participated in the development of the curriculum for the following Unit of Studies:

2020	Advanced Diagnostics and Disease Biomarkers (BMSC5004) , Master of Biomedical Science, The University of Sydney.
2020	Advances in Disease Diagnosis & Treatment (BMSC5002) , Master of Biomedical Science, The University of Sydney <i>As part of the curriculum development team for these Unit of Studies, I attended six hours of face-to-face meetings to review the description, aims and learning outcomes of the Units, and develop the relevant assessment and assessment rubrics.</i>



Certifications

2020-11	Clinical Teaching Fellowship (CTF) Certificate, The University of Sydney, Australia
2020-07	Clinical Teacher Training (CTT) Certificate, The University of Sydney, Australia
2020-07	Learn to Lead with UNSW, The University of New South Wales, Australia
2020-07	Good Clinical Practice (GCP) for Investigators and Research Staff, Genesis Research Services, Australia
2019-09	Trans-Proteomic Pipeline (TPP) Training
2019-06	Foundations of Research Supervision, The University of Sydney, Australia
2014-12	Certificates 1, 2 & 3 in Applied GCP Training for Investigational Sites and Sponsor Representatives, ARCS Australia



Grant Funding, Fellowships and Awards

As Main Applicant/Chief Investigator A

Sydney West Translational Cancer Research Centre (SW-TCRC) Infrastructure Access Grant, "Proteomic profiling of tissue infiltrating lymphocytes in early melanoma lesions for the identification of immune biomarkers", **\$14,800**, Jan-2021 to Jun-2021

SW-TCRC ECR Accelerator Grant, "Proteomic investigation of early melanoma lesions for the identification of diagnostic and classification biomarkers", **\$66,000**, Aug 2020 to Jun 2021

SW-TCRC Infrastructure Access Grant, "Development of a rapid and non-invasive proteomic technique for the diagnosis of early melanoma lesions", **\$12,545**, Apr 2020 to Jun 2020

SW-TCRC Infrastructure Access Grant, "Development of a rapid and non-invasive proteomic technique for the diagnosis of early melanoma", **\$18,110**, Apr 2019 to Jun 2020

2019 SW-TCRC Post-doctoral Fellowship, "Proteomic profiling of early melanoma lesions using SWATH mass spectrometry", **\$121,000**, Feb 2019 to Jan 2020

As Co-applicant/Chief Investigator B

Pfizer Pharmaceutical Open Competitive Project Grant (Grant ID: 53038185), "Proteomic study of the effect of PDE4 inhibitor on atopic dermatitis", **\$162,000**, Nov 2020 to Dec 2021

Scholarships

University of Sydney Postgraduate Awards (UPA) or PhD Scholarship;
\$27,000/Year (2014-2018), The University of Sydney, NSW, Australia

Westmead Hospital Foundation PhD Top-Up Scholarship; \$5000/year, (2014-2017), Westmead Hospital, NSW, Australia

Travel Grants:

Conference Travel Grant (\$1,000), SW-TCRC, 25th Annual Lorne Proteomics Symposium, Victoria, Australia, 2020

Conference Travel Grant (\$300), The Australasian Proteomic Society, HUPO Symposium, Adelaide, Australia, 2019.

The Nico Nibbering Travel Grant (\$1,000), The International Mass Spectrometry Foundation, International Mass Spectrometry Conference, Florence, Italy, 2018

Postgraduate Research Support Scheme (PRSS) Travel Grant (\$1200), The University of Sydney, The European Academy of Dermatology and Venereology Conference, Paris, France, 2018

Conference Travel Grant (\$1000), Australian and New Zealand Society of Mass Spectrometry (ANZSMS), International Mass Spectrometry Conference, Florence, Italy, 2018

Conference Travel Grant (\$1200), Sydney Cancer Research Network, European Academy of Dermatology and Venereology Conference, Paris, France, 2018

Conference Travel Grant (\$2000), SW-TCRC, 42nd Annual Meeting of the Japanese Society for Investigative Dermatology (JSID), Kochi, Japan, 2017

Postgraduate Research Support Scheme Travel Award (\$1200), The University of Sydney, Mass Spectrometry Training at the University of Melbourne, Victoria, 2015



Professional Membership

Professional Organization Member

2019 – Current	The Human Proteome Organization
2019 – Current	South West Sydney Research Group
2019 – Current	The Hunter Cancer Research Alliance (HCRA)
2019 – Current	The Sydney Catalyst Translational Cancer Research
2018 – Current	Centre for Translational Skin Research, honorary manager
2017 – Current	The Australian and New Zealand Society for Mass Spectrometry
2017 – Current	Centre for Cancer Research, Westmead Institute for Medical Research
2017 – Current	The Australian and New Zealand Society for Mass Spectrometry
2017 – 2019	The Australasian Society for Dermatology Research
2016 – Current	Sydney West Translational Cancer Research Centre
2016 – 2020	The Australasian Proteomics Society

Professional Committee Member

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| 2018 – Current | Centre for Translational Skin Cancer (CTSR), The University of Sydney, Executive Committee Member |
| 2014 – 2017 | The University of Sydney Postgraduate Student Working Group |
| 2015 | The Postgraduate Cancer Research Symposium Organizing Committee |
| 2015 | The Cancer-Lifespan Research Symposium Organizing Committee |



Student Supervision

I have been involved in the supervision/co-supervision of the following students at the Faculty of Medicine and Health, University of Sydney:

Current

- PhD: R Teh, co-supervisor
- Honours: H Qureshi, co-supervisor
- Dalyell Program: N Ibrahim, supervisor

Previous:

- S Jabbour (2019, Hon Class 1), co-supervisor



Peer-Review of Scientific Journal Articles

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| 2021 – Current | Journal of Proteomics (1) |
| 2020 – Current | International Journal of Medical Sciences (1) |
| 2020 – Current | Nature Communications (PMID: 33154365) |
| 2018 – Current | The International Journal of Biological Markers (2) |



Thesis Examination

Since 2019, I have examined three honours program thesis at the School of Medical Sciences, Faculty of Medicine and Health, The University of Sydney.



Publications

Azimi, A., K. Lo, J. Kim, and P. Fernandez-Penas (2020). "Investigating proteome changes between primary and metastatic cutaneous squamous cell carcinoma using SWATH mass spectrometry. "Journal of Dermatological Sciences" 99.2 (2020): 119-127.

Azimi, A., K. Kaufman, J. Kim, M. Ali, G. J. Mann and P. Fernandez-Penas (2020). "Proteomics: An emerging approach for the diagnosis and classification of cutaneous squamous cell carcinoma and its precursors." J of Dermatological Science **99** (1): 9-16.

Hallal, S., **A. Azimi**, H. Wei, N. Ho, M. Lee, H.-W. Sim, J. Sy, B. Shivalingam, M. E. Buckland and K. L. Kaufman (2020). "A comprehensive proteomic SWATH-MS workflow for profiling blood extracellular vesicles: a new avenue for glioma tumour surveillance." Int. J. Mol. Sci. **2020**, 21, 4754.

Azimi, A., P. Yang, M. Ali, V. Howard, G.J. Mann, K. L. Kaufman, P. Fernandez-Penas (2020). Data independent acquisition proteomic analysis can discriminate between analysis can discriminate between actinic keratosis, Bowen's disease and cutaneous squamous cell carcinoma" Journal of Investigative Dermatology **140** (1), pp.212-222.

Azimi, A., M. Ali, K. L. Kaufman, G. J. Mann and P. Fernandez-Penas (2018). "Tape stripped stratum corneum samples prove to be suitable for comprehensive proteomic investigation of actinic keratosis." PROTEOMICS-Clinical Applications 1800084.

Azimi, A., K. L. Kaufman, M. Ali, J. Arthur, S. Kossard and P. Fernandez-Penas (2018). "Differential proteomic analysis of actinic keratosis, Bowen's disease and cutaneous squamous cell carcinoma by label-free LC-MS/MS." J of Derm Sciences **91** (1): 69-78.

Azimi, A., K. L. Kaufman, M. Ali, S. Kossard and P. Fernandez-Penas (2016). "In Silico Analysis Validates Proteomic Findings of Formalin-fixed Paraffin-Embedded Cutaneous Squamous Cell Carcinoma Tissue." Cancer Genomics Proteomics **13** (6): 453-465.



Conference Presentations

Selected Oral Presentation

Ali Azimi "Investigating proteome changes between primary and metastatic cutaneous squamous cell carcinoma using SWATH mass spectrometry", Sydney West Translational Cancer Research Centre Virtual Rapid-Fire Presentations, May 2020

Ali Azimi "Proteomics and its application in skin research", Dermatology Symposium, Hospital Week, Westmead Hospital, NSW, August 2019.

Ali Azimi "Proteomic studies of non-melanoma skin cancer", 2019 Centre for Translational Skin Research Networking Event, Westmead, NSW, Feb 2019.

Ali Azimi "Proteomic studies of non-melanoma skin cancer", Cancer Research Centre Seminar Series, Westmead Institute for Medical Research, Westmead, NSW, Nov 2018.

Ali Azimi, "Tape stripped stratum corneum samples prove to be suitable for comprehensive proteomic investigation of actinic keratosis, 42nd Annual Meeting of the Japanese Society for Investigative Dermatology, Kochi, Japan, December 2017.

Ali Azimi, "Differential Proteomic Analysis of Actinic Keratosis, Bowen's Disease and Cutaneous Squamous Cell Carcinoma by Label-Free LC-MS/MS", Australasian Society for Dermatology Research (ASDR) Meeting 2017, Sydney, Australia, 09-10 May 2017.

Ali Azimi, "Differential Proteomic Analysis of Actinic Keratosis, Bowen's Disease and Cutaneous Squamous Cell Carcinoma by Label-Free LC-MS/MS", 2016 Postgraduate Cancer Research Symposium, Sydney, Australia, 2 December 2016.

Ali Azimi, "Label-free Proteomic Analysis of Microdissected Formalin-fixed and Paraffin Embedded Cutaneous Squamous Cell Carcinoma Tissue", Lifespan Research Network Postgraduate Symposium, Charles Perkins Centre, Sydney University, 1st November 2015.

Selected Poster Presentations

Ali Azimi, et al., "Investigating proteome changes between primary and metastatic cutaneous squamous cell carcinoma using SWATH mass spectrometry", Lorne Proteomics Symposium, Lorne, Victoria, Australia, Feb 2020.

Ali Azimi, et al., "SWATH Proteomic Analysis of Actinic Keratosis, Bowen's Disease and Cutaneous Squamous Cell Carcinoma", The Human Proteome Conference, Adelaide, Australia, Sep 2019.

Ali Azimi, et al., SWATH Proteomic Analysis of Actinic Keratosis, Bowen's Disease and Cutaneous Squamous Cell Carcinoma, The Australasian Society for Dermatology Research (ASDR) Meeting 2019, Melbourne, Australia, June 2019

Ali Azimi, et al., Differential Proteomic Analysis of Actinic Keratosis, Bowen's Disease and Cutaneous Squamous Cell Carcinoma by Sequential Window Acquisition of All Theoretical Mass Spectra (SWATH-MS), The 7th Annual Crown Princess Mary Cancer Centre Symposium, Sydney, Australia, November 2018

Ali Azimi, et al., Differential Proteomic Analysis of Actinic Keratosis, Bowen's Disease and Cutaneous Squamous Cell Carcinoma by Sequential Window Acquisition of All Theoretical Mass Spectra (SWATH-MS), 27th European Academy of Dermatology and Venerology, Paris France, 12-16 September 2018.

Ali Azimi, et al., Tape stripped stratum corneum samples prove to be suitable for comprehensive proteomic investigation of actinic keratosis, International Mass Spectrometry Conference 2018, Florence, Italy, 26-31 August 2018.

Ali Azimi, et al., Tape stripped stratum corneum samples prove to be suitable for comprehensive proteomic investigation of actinic keratosis, 26th Australian and New Zealand Society for Mass Spectrometry Conference, Adelaide, Australia, July 2017

Ali Azimi, et al., Differential Proteomic Analysis of Actinic Keratosis, Bowen's Disease and Cutaneous Squamous Cell Carcinoma by Label-Free LC-MS/MS, The Fifth Annual Crown Princess Mary Cancer Centre Symposium, Sydney, Australia, November 2016.

Ali Azimi, et al., Label-free Proteomic Analysis of Microdissected Formalin-fixed and Paraffin Embedded Cutaneous Squamous Cell Carcinoma Tissue, 21st Annual Lorne Proteomics Symposium, Lorne, Victoria, Australia, February 2016.



References

Professor Pablo Fernandez-Penas (Supervisor)

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