

Paper Submission Form - SAIP2025 Proceedings

Sections A, C, D, and E must be completed by all authors (including students) who submit papers. Section B is compulsory for students who submit manuscript(s).

Section A: Paper Submission Information

Paper/Abstract ID	64
Paper title	Evaluation of Pheophorbide a Phototoxicity in Melanoma Cells Grown as Three-Dimensional Tumour Spheroids
Corresponding Author Name & Surname:	Prof Heidi Abrahamse
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Section B: For Students & Supervisors

Supervisor Name & Surname:	Prof Heidi Abrahamse
Supervisor Email Address:	habrahamse@uj.ac.za

For this paper, the supervisor must agree/disagree with the following statements.

	Yes	No
1. I am aware that the above-mentioned paper is being submitted for possible publication in the Proceedings of the SAIP Conference. I am satisfied that the presented work is that of the listed authors. I hereby give consent to the submission	X	
2. I have proof-read the manuscript	X	
3. I am satisfied that the manuscript is written in appropriate English and is sufficiently free of grammatical and spelling errors	X	
4. I am familiar with the required manuscript format ("House Style"), and I am satisfied that this manuscript meets the criteria. I am aware that manuscripts not conforming with House Style may be desk rejected	X	
5. I am satisfied that the scientific content of this manuscript is of sufficient standard for it to be considered for publication in the Proceedings of the South African Institute of Physics Conference Proceedings	X	

Student Name & Surname: Nkune Nkune

Signature: 

Date: 23/07/25

Supervisor Name & Surname: Prof Heidi Abrahamse

Signature: 

Date: 23/07/25

Section C: Suggested Reviewers

Obtaining the two referee reports necessary for DHET subsidy is an onerous task.

Please provide the names and contact details of three qualified South African and/or international referees. Referees should have a PhD and expertise in the relevant area of Physics. Do not recommend referees who have co-authored a work with any of the authors on the manuscript within the past five (5) years. Manuscripts without three recommended referees may be subject to desk rejection.

Suggested Reviewers in your Research Field (Both local & international)		
	Reviewer Names & Surname	Reviewer's Email Address(es)
Suggested reviewer #1	Dr Cherie Kruger	cherier@uj.ac.za
Suggested reviewer #2	Dr Hanieh Montaseri	montaseri.hanieh@gmail.com
Suggested reviewer #3	Dr Olofinisan Kolawole	kollyck@gmail.com

Section D: Declaration of Novelty and Use of AI

How is this submitted manuscript scientifically novel?

Most in vitro studies investigating the phototoxic effect of the pheophorbide-a photosensitiser have used traditional 2-D cell culture models, which fail to resemble native solid tumours. Data obtained from this cell culture model are often misleading and do not accurately reflect in vivo treatment outcomes. This study investigated, for the first time, the phototoxic effect of pheophorbide-a in a 3-D cell culture model because it is the best mimic of a solid tumour in terms of cell-cell interactions, oxygen and nutrient distribution, growth kinetics and drug-resistant patterns observed in patients. Therefore, this study better represents in vivo outcomes and bridges the gap between in vitro and in vivo studies.

Please see the Author Guidelines for the AI use policy.

How was AI used in the generation of this manuscript?

No AI application was used in the generation of this manuscript.

Section E: Plagiarism

	Yes
I am aware that plagiarism detection software may be used on my manuscript.	X