



2024 LMA & VIA IMAGE COMPETITION

TERMS AND CONDITIONS

1. Information on how to enter and prizes for the **2024 Light Microscopy Australia & Volume Imaging Australia Image Competition** (“**Competition**”) form part of these “**Terms and Conditions**”. Entry into the Competition is deemed acceptance of these Terms and Conditions.
2. The Competition commences for entry submissions at **9am AEST on Monday 9th September 2024**. **Entries close 5pm AEDT on Friday 11th October 2024**. Please adjust for time differences in your time zone and allow sufficient time for entry forms to be completed and files uploaded. No late entries will be accepted under any circumstances, this includes images/videos emailed after the submission cutoff due to delays or errors in uploading.
3. The competition will be split into six categories: (i) live cell imaging, (ii) life sciences, (iii) in vivo imaging, (iv) materials sciences, v) super resolution imaging and vi) volume imaging. The volume imaging category is run in conjunction with Volume Imaging Australia (VIA). All other Categories are run by Light Microscopy Australia (LMA). VIA & LMA are special interest groups of The Australia Microscopy and Microanalysis Society (AMMS).
4. Entry is open to **all** microscopists based in Australia, and therefore does not require AMMS membership. Employees of microscope manufacturers/suppliers/companies are ineligible to enter.
5. **Each entrant may submit a maximum of THREE images and ONE movie in total**. Submission of the same image to multiple categories is considered a separate entry for each category entered.
6. To enter categories 1-5, you must submit images/movies that have been taken using an optical/light or fluorescence microscope. Images submitted to category 6 may be captured using any imaging technique capable of capturing a volumetric dataset (e.g. EM, optical, MRI, X-ray). You **must supply all details of the imaging technique(s) used** to capture the submitted image(s).
7. Definitions, example methodologies and requirements for each category are given below these Terms & Conditions and repeated within the submission form and these definitions for appropriate submissions must be followed by entrants. Images submitted to inappropriate categories will be withdrawn from consideration.
8. Your image(s) must be uploaded electronically via the Google form (and associated Google drive) and submitted by the closing date of the Competition. LMA & VIA accept no responsibility for lost, late, stolen, damaged or misdirected entries.
9. The image file format for submissions can be TIFF, PDF or video format. Image files should be **high resolution** with a recommended file size equal to or greater than 4MB, and videos no larger than 100MB.
10. All valid entries received by **5pm AEDT Friday 11th October 2024** will be individually judged by a panel appointed by LMA & VIA who, at their discretion, will select images for display and of these the **best entries will be selected as prize winners**.
11. Valid Entries are judged in regards to **the overall aesthetics of the image, technical difficulty in obtaining the image, research relevance, originality and suitability for the competition**.
12. Valid entries may be displayed in various regional institutions with LMA & VIA representation, with entrant's name, title of entry and a brief image description.
13. Each entry must be the original work of the person entering the competition and all entrants agree that their entry does not contain any material that infringes anyone else's copyright. **The entry must not have been previously awarded a prize in another or similar competition and/or category in this or a previous year**.
14. Each entrant grants LMA & VIA the right to reproduce, publish, transmit or otherwise communicate to the public their entry, in whole or in part, in or using any media for any purpose without permission or payment.



15. The winner(s) of this Competition will win **ONE** of the fabulous prizes kindly donated by our category sponsors. Additional submissions by a single person will be discounted from consideration if the entrant has already received a prize in any category in the 2024 Competition.
16. The prize winners will be notified by email by end of November 2024. The judges' decision is final and no correspondence, including in the event of a dispute, will be entered into.
17. The prize is not transferable, exchangeable or redeemable for cash.
18. Any tax liability for accepting the prize is the responsibility of the winner.
19. LMA & VIA reserve the right to disqualify any entrant for submitting an entry which is not in accordance with these Terms and Conditions.
20. If for any reason the Competition is not capable of running as planned, LMA & VIA reserve the right to modify the terms of the competition, including the prize and these Terms and Conditions.
21. LMA & VIA will not be liable for any injury, loss or damage of any nature whatsoever (including but not limited to indirect or consequential loss) which is suffered or sustained as a result of, or in connection with receiving, taking or using any prize, except for any liability which cannot be excluded by law.



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CATEGORY DEFINITIONS

1. Life Sciences:

- 1.1. Life Sciences is sponsored by Zeiss Australia.
- 1.2. The Life Sciences category encompasses any light microscopy based imaging of any specimen related to the life sciences using a recognized light microscopy technique.
- 1.3. Images submitted to the Life Sciences category MUST have been captured using a recognised light microscopy technique.
- 1.4. Examples of accepted methodology for Life Sciences imaging include; Brightfield, Phase Contrast, DIC, Polarization, Widefield Fluorescence, Confocal, High Content Imaging, Lightsheet Microscopy.
- 1.5. Clear methodology, including pixel size of image and full details of microscope used must be included with submission.

2. In Vivo Imaging:

- 2.1. *In Vivo* Imaging is sponsored by Coherent Scientific.
- 2.2. The *In Vivo* Imaging category encompasses light microscopy imaging in whole model organisms.
- 2.3. Ex vivo, explants and sectioned tissue are not considered *in vivo* imaging.
- 2.4. Images submitted to the *In Vivo* Imaging category MUST use a recognised light microscopy technique capable of imaging within a whole model organism.
- 2.5. Examples of accepted methodology for *In Vivo* Imaging include: Multiphoton, Lightsheet Microscopy or other Intravital Imaging applications.
- 2.6. Clear methodology, including model organism and the pixel size of image and full details of microscope used, must be included with submission.

3. Live Cell Imaging:

- 3.1. Live Cell Imaging is sponsored by NewSpec.
- 3.2. The Live Cell Imaging category encompasses all time lapse imaging of a dynamic process in living biological samples.
- 3.3. Living samples can include cultured cells, organoids and model organisms.
- 3.4. Submissions MUST clearly show the time lapse element (ie: video or image series).
- 3.5. Images or videos submitted to the Live Cell Imaging category MUST use a recognised light microscopy technique.
- 3.6. Examples of accepted methodology for Live Cell Imaging include; Brightfield, Phase Contrast, DIC, Polarization, Widefield Fluorescence, Confocal, High Content Imaging, Multiphoton, Lightsheet Microscopy.
- 3.7. Clear methodology, including sample, time interval information and the pixel size of image or video, along with full details of microscope used must be included with submission.

4. Material Sciences:

- 4.1. Material Sciences is sponsored by Zeiss Australia.
- 4.2. The Materials Sciences Imaging category encompasses light microscopy imaging of a solid material that has been engineered or was not once living.
- 4.3. This can include the interaction of biological samples with the solid material.
- 4.4. Images submitted to the Material Sciences category MUST use a recognised light microscopy technique.
- 4.5. Examples of accepted methodology include; Brightfield, Phase Contrast, DIC, Polarization, Reflection, Confocal, or other light microscopy applications for the imaging of the material.
- 4.6. Clear methodology, including details of the material, full details of microscope used and the pixel size of image, must be included with submission.



5. Super Resolution Microscopy:

- 5.1. Super Resolution Microscopy is sponsored by Lastek.
- 5.2. The Super Resolution Microscopy category encompasses imaging using light microscopy applications that result in resolution beyond the diffraction limit.
- 5.3. Images submitted to the Super Resolution Microscopy category **MUST** use a light microscopy method that results in resolution beyond the diffraction limit.
- 5.4. Examples of accepted methodology for Super Resolution Microscopy are: AiryScan or equivalent with demonstration of super-resolution being achieved, STORM/PALM or other SMLM techniques, SIM, STED, Expansion Microscopy, 4Pi or other light microscopy techniques where the increase in resolution beyond the diffraction limit can be demonstrated.
- 5.5. Clear methodology, including full details of microscope used, the resolution achieved and the pixel size of the image, must be included with submission.

6. Volume Imaging:

- 6.1. Volume Imaging is sponsored by Klein Scientific.
- 6.2. The Volume Imaging category encompasses all 3-dimensional (3D) imaging of samples.
- 6.3. The 3D nature **MUST** be apparent in the submission, for example by highlighting the 3D aspect through the use of movies, rotation or rendering.
- 6.4. Any 2D images or movies submitted to this category must be generated from voxel data (3D pixels) using a recognised volume imaging technique.
- 6.5. Images submitted to the Volume Imaging category **MUST** use a volumetric imaging technique and is not limited to light microscopy only.
- 6.6. Examples of accepted methodology include: MRI, X-Ray, CT, OPT, Volume EM, Confocal Microscopy, Lightsheet Microscopy or other recognised 3D imaging applications.
- 6.7. Clear methodology, including full details of microscope used and details of the 3D application and the voxel size of the image, must be included with submission.